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DRAFT Remedial Investigation & Feasibility Study

**Bothell Service Center Simon & Son
18107 Bothell Way NE
Bothell, Washington
FSID # 33215922
VCP # NW2946**

Prepared For:

**City of Bothell
18415 101st Avenue NE
Bothell, Washington**

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1.0 INTRODUCTION

This Draft Remedial Investigation / Feasibility Study (RI/FS) report was prepared by Kane Environmental, Inc., (Kane Environmental) on behalf of the City of Bothell (the City) for the Bothell Service Center Simon & Son Site located in Bothell, Washington (the Site). A vicinity map and Site location are shown on Figure 1. An RI Work Plan (Rev 1) was prepared and submitted to the Washington Department of Ecology (Ecology) in August 2015 for the purpose of filling data gaps regarding the horizontal and vertical extent of halogenated volatile organic compounds (HVOCs) in soil and groundwater beneath the Site and/or nearby properties (HWA, 2015). Site characterization was completed by Kane Environmental from July 2016 through June 2017, which included supplemental soil sampling and installation of groundwater monitoring wells with two rounds of groundwater sampling. In February and June 2017, additional soil sampling was conducted at Ecology's request to delineate the southern extent of the source area HVOC contaminated soil.

1.1 Purpose

The objective of this RI/FS report is to meet the requirements of the Model Toxics Control Act (MTCA) Cleanup Regulation (Washington Administrative Code [WAC] 173-340) to characterize the Site and evaluate proposed remedial actions to address the contamination and based on that evaluation, propose the most appropriate remedial alternative to clean up the Site.

The purpose of the remedial investigation (RI) is to investigate and delineate the nature and extent of soil and/or groundwater impacts at the Site. The RI is designed to characterize site conditions, including site physical characteristics, nature and extent of contaminants of concern, media impacted, source areas, contaminant migration pathways, rates, and directions, and potential receptors and develop a site conceptual model. This was accomplished using existing data as well as conducting site-specific investigations. The RI findings were then used to complete a Draft FS, to evaluate remedial alternatives for the Site and select a cleanup action as described in WAC 173-340-360 through 173-340-390. The selected cleanup alternative was then detailed in a draft cleanup action plan (dCAP).

The primary historical environmental concerns at the Site are associated with HVOCs released to soil and groundwater from a former dry cleaners at the northwest corner of the Site.

Specific objectives of the RI/FS include:

- Determine the lateral and vertical extent of HVOC impacts to soil and groundwater at the Site;
- Investigate site geology, hydrogeology, and groundwater flow/transport characteristics;

- Develop a conceptual site model (exposure pathways and receptors);
- Establish cleanup standards and remedial action objectives;
- Identify and screen feasible remedial technologies;
- Assemble and screen remediation alternatives;
- Perform a detailed evaluation of the screened remediation alternatives;
- Propose and describe a preferred cleanup alternative;
- Select a preferred cleanup alternative.

1.2 Authorization / Scope of Work

Kane Environmental work for this project was authorized under an On-Call Hazardous Materials Services Consultant Agreement with the City dated June 2016. Kane Environmental's scope of work for this portion of the project included:

- Prepare and submit to Ecology an RI scope of work;
- Perform environmental explorations and develop remedial designs for cleanup of the Site;
- Prepare a Draft RI/FS (dRI/FS) and Draft Cleanup Action Plan (dCAP).

1.3 Regulatory Framework

The Site is listed in Ecology's database as Bothell Service Center (BSC), and also as Simon & Son Fine Drycleaning. The Site is assigned Facility Site ID number 33215922 for dry cleaning solvent contamination in soil and groundwater. The Voluntary Cleanup Program (VCP) project number for the Site is NW2946 and the Cleanup Site ID number is 427. It should be noted that the Site was formerly in the VCP as project number NW0794 from 2001 to 2006.

Ecology lists the Site Discovery/Release Report having been received on August 1, 2001 (Ecology, 2015a). On February 16, 2015, the City of Bothell re-entered the Site into Ecology's VCP in order to complete this remedial investigation and feasibility study and prepare a draft Cleanup Action Plan (dCAP). The remediation of the site following the cleanup action plan is anticipated to be implemented under a consent decree with the City of Bothell and Ecology.

1.4 Site Background

The property containing the source of contamination was previously owned by Bothell Service Center Associates (BSCA) and managed by NLO Property Management (BSCA property). The City of Bothell is the current owner of the BSCA property and the City owns roadways and other parcels adjacent to the BSCA property, which are also part of the Site. The City is in the process of obtaining a Consent Decree to implement a Cleanup Action Plan for the Site with Ecology and the Attorney General's Office.

The BSCA property address is 18107 Bothell Way NE, Bothell, WA 98011, located at 47.760 degrees north and -122.209 degrees west in Section 7 of Township 26 north, Range 5 east. The King County Assessor's Office lists the parcel number as 237420-0065, which is 0.62 acres in size. The BSCA property previously included a one-story, masonry, commercial building approximately 8,410 square feet in area, containing five tenant suites. The former building on the BSCA property and associated aboveground features were demolished in August 2016. The BSCA property currently contains the concrete at-grade floor of the former building, and the asphalt paving is also still present. Stormwater drains and piping are still functional on the BSCA property while the sanitary sewer and water lines were disconnected in August 2016. This BSCA property is located on the northeast corner of the intersection of 98th Avenue Northeast and the former State Route 522. The Site also includes a portion of the vacated State Route 522, and a portion of a parcel south of that. Vacant properties located to the east, south, and southeast of the BSCA property are owned by the City, and are in the process of being redeveloped. Private residential properties are located to the west and north of the Site. General location of the Site is shown on Figure 1. A Site plan is shown on Figure 2.

According to available information, the former building on the BSCA property was constructed in 1988, and Simon and Son Drycleaning, a dry cleaning facility, operated in the westernmost tenant suite from approximately 1989 through 1999. In 1999, a release of the dry cleaning solvent tetrachloroethene (PCE) was detected in subsurface soils beneath the former building on the BSCA property. The detected release of PCE was reported to Ecology by NLO Property Management in a letter dated August 22, 2000. The corresponding and subsequent subsurface investigations and remedial activities conducted on the BSCA property and vicinity are discussed in Section 1.5.

Per MTCA, a "Site" is "any site or area where a hazardous substance...has been deposited, stored, disposed of, or placed, or otherwise come to be located." The RI provides information about the location of hazardous substances from which an informed estimate of the Site boundaries can be made. Figure 2 shows the approximate extent of the Site as defined by the extent of HVOC in groundwater, primarily the dry cleaning solvent PCE, at concentrations greater than Washington's Model Toxics Control Act (MTCA) Method A groundwater cleanup levels. The HVOC plume originating from the former Simon & Son Fine

Drycleaning facility on the BSCA property is known to exist beneath the BSCA property and extend onto adjacent and downgradient properties, including (from up- to down-gradient):

- 98th Avenue NE, located to the west and southwest of the BSCA property;
- The vacated portion of State Route 522 located immediately south of the BSCA property;
- The adjoining former Al's Auto Bothell Wexler property to the east, now owned by the City;
- The location of the Bothell Former Hertz Facility (former Hertz property) south of the vacated portion of SR522, now vacant, undeveloped, and also owned by the City.

See Figure 1 for a Vicinity Map and Figure 2 for a Site Plan.

1.5 Previous Site Assessments and Remedial Activities

This section is adapted from Farallon Consulting's 2011 letter report to Ecology (Farallon, 2011), and HWA Geosciences 2008 environmental assessment reports. Tables 1 and 2 respectively list soil and groundwater analytical data collected to date by several environmental consulting firms that have worked at the Site and in the vicinity. Figure 3 shows features on the BSCA property including buried utility locations, and the location of equipment used in former dry cleaning operations.

Interim Site Characterization Summary, Environmental Resources Management (ERM), October 17, 2001.

ERM conducted subsurface soil and groundwater investigation activities at the Site between December 1999 and July 2001 (ERM, 2001). Hand-auger borings HA-1, HA-2, and HA-3 were advanced in December 1999 to assess soil conditions in the vicinity of the former dry cleaning equipment in the Bothell Service Center building. PCE was detected at concentrations exceeding the current MTCA Method A soil cleanup level of 0.05 milligrams per kilogram (mg/kg) in soil samples collected from depths of 1 to 2 feet below ground surface (bgs) in each of the boring locations, confirming that a release of PCE had occurred at the Site.

In June and July 2000, ERM conducted subsurface investigations that involved collection of soil and groundwater samples from direct-push borings B-4 through B-11 and GP-1 through GP-3. The work in June 2000 entailed chemical analyses of soil samples collected from depths up to 4.2 feet bgs. PCE was detected at concentrations exceeding the MTCA Method A soil cleanup level, with the highest concentration of 392 mg/kg detected in a soil sample collected at a depth of 2.5 feet bgs from boring B-9 in the former dry cleaning equipment area. Work later in the summer of 2000 included chemical analyses

of soil samples that confirmed PCE in excess of the MTCA Method A soil cleanup level at depths to 9 feet bgs approximately 20 feet southwest (soil boring GP-3) and 50 feet southeast (boring GP-2) of the former dry cleaning equipment area (Figure 3).

PCE and TCE were detected at concentrations exceeding current MTCA Method A groundwater cleanup levels in reconnaissance groundwater samples collected from borings GP-2 and GP-3. Chloroform and 1,1-dichloroethene (1,1-DCE) were also detected at concentrations exceeding current MTCA Method B groundwater cleanup levels in the reconnaissance sample collected from boring GP-3.

To further delineate the extent of PCE and related degradation compounds at the Site, ERM conducted supplemental investigation activities in 2001 that involved advancing and sampling additional direct-push Geoprobe temporary borings SP-1 through SP-12, and installing groundwater monitoring wells MW-1 through MW-7. The groundwater samples collected included both “shallow” and “deep” reconnaissance groundwater samples (exact depths were not indicated in the information available), with results used to support the selection of monitoring well locations. Findings of the supplemental investigation indicated that PCE concentrations in groundwater increased with depth, and PCE and its degradation compounds exceeded MTCA Method A or Method B cleanup levels. Chloroform also was detected at concentrations exceeding the MTCA Method B groundwater cleanup level.

Interim Site Remediation Summary, ERM, March 25, 2002.

In 2001 and 2002, after a technology feasibility evaluation process, ERM conducted two remedial action events consisting of application of in-situ chemical oxidation at the Site to address concentrations of PCE in soil and groundwater. During the first event in 2001, potassium permanganate solution was applied directly to soil exposed by the removal of a section of the floor in the vicinity of the former dry cleaning equipment in the Bothell Service Center building. Also in 2001, ERM applied potassium permanganate directly into the water-bearing zone at depths ranging from 10 to 20 feet bgs at eleven soil boring locations outside the south side of the building using a direct-push drill rig. Approximately 100 to 250 gallons of a 2.5 percent potassium permanganate solution was injected into each boring, with a total injection volume of 1,800 gallons of solution. Groundwater monitoring indicated that HVOC concentrations were reduced in some areas 17 days after injection; however, concentrations rebounded after approximately four months. Notably, MW-4, where concentrations were reduced to 8,960 micrograms per liter ($\mu\text{g/L}$) and rebounded to 11,000 $\mu\text{g/L}$, and MW-6, where concentrations were reduced to 13,500 $\mu\text{g/L}$ and rebounded to 21,800 $\mu\text{g/L}$.

Subsurface Investigation Report, Farallon Consulting (Farallon), January 27, 2003.

Farallon conducted a subsurface investigation at the Site in September and October 2002 that included drilling and installation of groundwater monitoring wells MW-8 and MW-9, and one groundwater monitoring event. PCE was detected at concentrations exceeding MTCA Method A cleanup levels in a soil sample collected from boring MW-9, in groundwater samples collected from boring SB-1, and in groundwater in the borings for groundwater monitoring wells MW-8 and MW-9. PCE degradation compounds TCE and DCE were detected at concentrations exceeding their respective MTCA groundwater cleanup levels in groundwater samples collected from borings for monitoring wells MW-8 and MW-9. PCE was detected at concentrations exceeding the MTCA Method A groundwater cleanup level in samples collected from groundwater monitoring wells MW-1 through MW-9, with the exception of well MW-3, located north of the former dry cleaning equipment area. PCE degradation compounds were also detected at concentrations exceeding MTCA groundwater cleanup levels in samples collected from groundwater monitoring wells MW-1, MW-4, MW-5, and MW-6. The subsurface investigation activities are documented in Farallon's report (Farallon, 2003).

Engineering Design Report, Farallon, July 9, 2004.

Farallon performed additional subsurface investigations at the Site in September and October 2003 to address data gaps and provide information for the design of a remediation system. The additional subsurface investigations included advancing soil borings SB-2 through SB-6; advancing boring MW-10 to a total depth of 47.5 feet bgs and completing the boring as a 25-foot-deep groundwater monitoring well; advancing borings VE-1 and VE-2 to total depths of 21.5 feet bgs and completing the borings as vapor extraction wells; conducting a soil vapor extraction (SVE) pilot test; and collecting soil and groundwater samples for laboratory analyses. PCE was detected at elevated concentrations in saturated soil samples collected below the groundwater table from borings VE-1 (17 feet bgs) and VE-2 (15 feet bgs), and the boring for monitoring well MW-10 (8 and 32 feet bgs). PCE also was detected at concentrations exceeding the MTCA Method A groundwater cleanup level in the groundwater samples collected from borings SB-3, MW-10, VE-1, and VE-2.

Cleanup Action Progress Report June 2006 through June 2007, Farallon, March 12, 2008.

Based on results from the subsurface investigations, the ERM remedial action, and a soil vapor extraction (SVE) pilot test, Farallon implemented an additional remedial action approach incorporating several elements, including an SVE system to remove soil vapors containing concentrations of PCE in the subsurface, injection of a chemical oxidant into groundwater in three monitoring wells at the Site to reduce residual HVOC concentrations in groundwater, and long-term monitoring of the natural attenuation of HVOCs in groundwater.

In September 2004, Farallon installed a SVE system at the Site consisting of a remediation compound on the west end of the Bothell Service Center building housing above-ground piping, a blower, electrical controls, and a vent stack. Trenching and installation of underground piping connecting the vacuum blower to vertical SVE wells VE-1 and VE-2 and horizontal SVE well HVE-1 extended approximately 20 feet east into the westernmost tenant space, south of the former dry cleaning machine. The components of the SVE system did not extend into any of the other tenant spaces, and no records of any previous vapor intrusion investigations were found in any prior reports for the BSCA property.

Farallon conducted tracer dye injection tests at the Site in 2005 to evaluate migration pathways to facilitate planning for in-situ treatment alternatives (Farallon, 2008a). The first dye injection test was conducted in February 2005 and included introducing dye through the toilet in the former dry cleaner suite into the sanitary sewer system (sewer dye test). The results of the sewer dye test indicated that there may be leaks in the sewer line directly beneath the building that are impacting groundwater, indicated by tracer detected at monitoring well MW-2. A second dye injection test was conducted in March 2005 and included injection of dye into monitoring well MW-2 (hydrogeologic tracer test). The results of the hydrogeologic tracer test indicated that the dye traveled a distance of approximately 45 to 65 feet from monitoring well MW-2 to MW-1 and MW-6 in 5 days (i.e., 9 to 13 feet per day).

In May 2005, Farallon conducted additional cleanup activities at the Site using in-situ chemical oxidation via hydrogen peroxide injection into monitoring wells MW-2 and MW-9. Because hydrogen peroxide degrades much more rapidly than the permanganate used by ERM in 2001 and 2002, it was considered unlikely to affect down-gradient surface water receptors if transported through preferential pathways. The injection included a total of 300 gallons of a solution consisting of 10 percent hydrogen peroxide and 90 percent water. Approximately 200 gallons of the solution were injected into monitoring well MW-2.

Selected monitoring wells at the Site were sampled in August 2005 to evaluate post-chemical oxidation injection concentrations of PCE in groundwater. Concentrations of PCE in groundwater had increased at the monitoring wells where hydrogen peroxide was injected (MW-2 and MW-9), and at monitoring wells MW-1 and MW-6, located downgradient of the injection wells. Injection of hydrogen peroxide likely immediately consumed PCE mass in the well boring and in soil surrounding the injection well for several feet prior to breakdown of the hydrogen peroxide. In addition to consuming PCE mass, the hydrogen peroxide most likely oxidized native organic material in this zone. The increased PCE concentrations are most likely attributable to the release of dense non-aqueous-phase liquid (DNAPL) HVOC that previously was adsorbed to the native organic material, and increased dissolution of the DNAPL to groundwater.

PCE as DNAPL was initially discovered at the bottom of monitoring well MW-9 in late August 2005. Between June 2006 and June 2007, DNAPL was periodically removed from monitoring well MW-9 using

a peristaltic pump and dedicated polyethylene tubing. Approximately 450 milliliters of DNAPL was recovered during September 2005. An additional 40 milliliters of DNAPL was removed in February 2006, approximately 500 milliliters each in September 2006 and May 2007, and approximately 200 milliliters in June 2007, for a total of approximately 1,690 milliliters (approximately 0.5 gallon) of DNAPL removed from monitoring well MW-9.

Farallon conducted additional cleanup action via in-situ chemical oxidation between September 2006 and May 2007 at the Site by installing chemical oxidation cells in selected monitoring wells. The chemical oxidation cells were constructed of 1-inch diameter slotted polyvinyl chloride with two end caps glued in place. Each cell consisted of two portions: a lower portion approximately 6 inches in length and filled with chelated iron; and an upper portion approximately 12 inches in length and filled with sodium persulfate. Chelated iron acts as a catalyst to activate the chemical oxidation process by sodium persulfate. The chemical oxidation cells were suspended in monitoring wells MW-1 and MW-4 through MW-9 using new dedicated polyethylene cord and fully submerged in groundwater.

Interim Action Status Report November 2007 through August 2008, Farallon, November 4, 2008.

In 2007, Farallon evaluated the progress of the chemical oxidation cells and reconsidered the range of remedial technologies assessed in November 2002. The feasibility assessment concluded that Site conditions appeared to be amenable to enhanced in-situ bioremediation and that a bioremediation approach had potential to be more effective in a shorter restoration time frame than chemical oxidation. Farallon implemented a pilot-scale in-situ enhanced bioremediation approach that entailed the following:

- Installation of six new injection wells in November 2007 for introducing a bioremediation edible oil substrate (EOS), an emulsified vegetable oil product produced by EOS Remediation, LLC into the subsurface at monitoring wells MW-14, MW-15, and MW-18, screened in the Intermediate portion of the water-bearing zone, and monitoring wells MW-13, MW-16, and MW-17, screened in the Deep portion.
- Injection of approximately 1,700 gallons of a 20-percent mixture of substrate and water to enhance biodegradation of PCE in the water-bearing zone at the six injection wells and eight temporary borings in February 2008. Results of the injections are discussed in Farallon's 2011 *Project Status Summary*.
- Bioaugmentation to supplement the existing population of *Dehalococcoides* (DHC) bacteria that are most likely responsible for the reductive dechlorination of PCE and its degradation byproducts in groundwater in July 2008.

- Continued operation of the SVE system at the Site to address residual concentrations of PCE in soil above the water table and to mitigate the potential for vapor intrusion into the existing Site building.

Limited Phase II Environmental Site Assessment, Highway 522 Right-of-Way, HWA Geosciences (HWA), April 15, 2008, and Phase II Environmental Site Assessment, Hertz Rentals Property, HWA, October 10, 2008

In 2008, HWA performed soil and groundwater investigations south of the BSCA property and installed monitoring wells in the SR522 right-of-way and former Hertz property. The investigations indicated that HVOC contamination had migrated south of the Site onto those properties (HWA, 2008a, 2008b). Analytical data are listed in Tables 1 and 2. HWA performed quarterly groundwater monitoring for one year from wells located in the vacated portion of SR522 and former Hertz property south of the Site, and also in the former AI's Auto / Wexler / Schucks property immediately east of the BSCA property, as part of the RI activities described under the Bothell Landing and Bothell Hertz Agreed Orders. Groundwater samples collected by HWA at these properties have consistently had HVOC concentrations exceeding MTCA groundwater cleanup levels, indicating that the release at the BSCA property has migrated downgradient and off property.

Phase II Environmental Site Assessment, Schuck's Auto Supply, Floyd & Snider, September 10, 2010.

Floyd & Snider conducted a Phase II investigation in August 2010, associated with three former gasoline USTs located on the former Schucks property, immediately adjacent to the east of the BSCA property (Floyd & Snider, 2010) and where residual petroleum hydrocarbon (gasoline) contamination and HVOC contamination were documented in soil and groundwater (AGI, 1990; HWA, 2006, FJS 2010). The investigation also sought to analyze for potential HVOC impacts to the former Schucks property, from the BSCA property. Borings were predominantly advanced in the area of the former USTs, approximately 34 feet to the east of the BSCA property. Soil and groundwater samples were collected from the boring locations. One boring location (GP-12, 32.5 feet to the east of the BSCA property) reported soils at 6 feet bgs with gasoline concentrations (5,900 ppm) in exceedance of the MTCA Method A cleanup level (100 ppm). None of the other boring locations reported petroleum concentrations in soil above state cleanup levels. None of the groundwater samples collected reported concentrations of petroleum products in exceedance of state cleanup levels. No benzene was detected in any of the groundwater samples. However, groundwater samples collected from GP-12 reported concentrations of gasoline (940 ppb) just below the MTCA Method A cleanup level (1,000 ppb). The investigation also reported HVOC impacts to both soil and water at concentrations in exceedance of MTCA Method A cleanup levels. It should be

noted that soil samples with reported HVOC exceedances were collected at 8 and 9 feet bgs, below the observed depth of groundwater (approximately 4 to 7 feet bgs).

Project Status Summary, Farallon, November 18, 2011.

Farallon released a summary of remedial activities conducted at the BSCA property since the November 2008 report (Farallon, 2011). These activities included a second injection event in 2010 and continued groundwater monitoring. Farallon stated that groundwater monitoring at the site indicated that PCE degradation rates had increased in the vicinity of the injection wells. This conclusion was based on decreased PCE concentrations and increased vinyl chloride concentrations. These effects had been most prominent at MW-2 and MW-6. Farallon did note that the effects of the PCE degradation were not evident in the down gradient wells MW-4, MW-5, MW-7 or near the cross-gradient well MW-1. The report recommended a larger scale in-situ bioremediation system at the Site.

Farallon's report also stated that while the removal rate of PCE via the SVE system had initially been high following the installation of the system in 2004, the system had reached near non-detectable concentrations of PCE by 2011. The report stated that while PCE emissions were low, the system helped to mitigate the potential for vapor intrusion into the existing structure at the BSCA property.

Prior to 2011, the system was extracting approximately 0.5 liters of PCE per year. After 2011, little or no HVOCs were reportedly being detected in the off-gas. The SVE system has therefore removed some PCE mass from the vadose zone within its area of operation. The system is currently not in operation and was removed during the building demolition in August 2016.

Focused Soil and Groundwater Investigation, Horse Creek Project, Shannon & Wilson, Inc., May 7, 2013.

In October of 2012, Shannon & Wilson advanced several borings along the proposed alignment of the relocated Horse Creek channel. Three borings (GP-7 through GP-9) were located to the west of 98th Avenue NE, west of the BSCA property, which has since been excavated and contains the relocated Horse Creek channel. Soil and groundwater samples were collected from each location and analyzed for HVOCs. HVOCs were reportedly not detected at concentrations above the laboratory reporting limit in any of the groundwater or soil samples analyzed.

Request for "Contained In" Determination for Soils, Storm and Sanitary Sewer System Construction, 98th Avenue Northeast, HWA, June 11, 2014.

In May of 2014, HWA advanced three borings (98-B1 through 98-B3) along 98th Avenue NE, just west of the BSCA property. The borings were sited to assess potential HVOC impacts from the BSCA property

and request a “Contained In” determination from Ecology for soils excavated during the installation of new utility lines along 98th Avenue NE. Soil samples were collected at 8 feet bgs and analyzed for HVOCs. The northernmost boring, (98-B1) reported concentrations of PCE below the MTCA Method A cleanup level and the central and southern borings (98-B2 and 98-B3, respectively) both reported concentrations of PCE in exceedance of the MTCA Method A cleanup level.

Results of October Groundwater Sampling, Dalton, Olmsted, and Fugelvand, Inc. (DOF), November 10, 2014.

In the spring of 2014, DOF performed groundwater monitoring and data analyses for the Site (DOF, 2014). DOF’s analytical data are included in Table 2. DOF stated that historic groundwater monitoring data, coupled with the October 2014 monitoring results, provided strong evidence that the EOS injection product was successfully facilitating the degradation of PCE at the Bothell Service Center Site.

In summary and prior to 2016, the results of prior subsurface investigations conducted indicated the following:

- A release of an unknown quantity of PCE occurred at the Site between 1989 and 1999 during operation of Simon & Son Fine Drycleaning, and a residual source of PCE remains beneath the northwest corner of the former structure on the BSCA property,
- The PCE release(s) affected the soil above and below the water table as well as groundwater at the Site,
- PCE as DNAPL has been encountered on the Site at depths of approximately 45 to 50 feet bgs.
- Groundwater is affected to a depth of at least 50 feet where a silty stratum occurs in the source area, and at a depth of 30 to 40 feet down-gradient and across much of the Site, and
- The groundwater plume migrated across the Site via east and east-southeasterly flowing groundwater across city rights-of-way, and as far as the City-owned Al’s Auto Bothell Wexler property and the former Hertz property parcel.

2.0 ENVIRONMENTAL SETTING

A discussion of the physical characteristics of the Site are discussed in the subsections below.

2.1 Physical Characteristics of the Site

The RI study area is within the Horse Creek valley on the Bothell Upland physiographic subdivision of the Puget Sound Lowland physiographic province. Horse Creek is a southerly flowing tributary to the Sammamish River. The general topography of the RI study area slopes gently down from north to south towards the westerly flowing Sammamish River (Figure 1). Elevations in the RI study area range between about 30 to 60 feet above mean sea level (amsl); the elevation of the Site is approximately 50 feet.

2.1.1 Geology

The Site is located within the Puget Sound Lowland, a north-south trending structural and topographic depression bordered on the west by the Olympic Mountains and on the east by the Cascade Mountains. The area is characterized by gently rolling glacial drift plains covered with small ridges, hills, and depressions formed by the continental ice sheet that covered the area during the Pleistocene Epoch and retreated approximately 12,500 years ago. Most of northwestern King County is mantled by glacial deposits (including gravel, sand, silt, clay, boulders), which are commonly up to and over 150 feet thick (Liesch and others, 1963).

The vacated portion of SR522 immediately south of the Site is located at the mapped contact between alluvial soils associated with the Sammamish River to the south, and glacial soils to the north (HWA, 2012).

Past subsurface assessment work at the Bothell Service Center identified sand and gravel fill with minor silt to a depth of four to ten feet bgs, with native soil consisting of silt and fine sand below the fill. Although these silts and sands are texturally similar to alluvial soils found on the former Hertz property to the south, the higher densities suggest these may be glacially consolidated deposits (HWA, 2012).

Figure 4 presents a plan view of the Site with four cross-section lines, A to A', B to B', C to C', and D to D'. Figure 5 shows a cross-section from A to A', running northwest to southeast across the majority of the Site. Figure 6 shows a cross-section from B to B', running southwest to northeast across the BSCA property. Figure 7 shows a cross-section from C to C', running southwest to northeast across the former Hertz property. Figure 8 shows a cross-section from D to D', running southwest to northeast across the source area of the BSCA property. Notable in all cross sections is the discontinuous nature of several stratigraphic horizons across the Site such as silty sands and sandy silts. Generally, the geology can be described as glacio-fluvial deposits overlain by varying depths of fill material. Additionally, a consistent

glacial till unit was present throughout the Site at depths ranging from 46 to 55 feet bgs. The maximum thickness of the till unit was not determined at the Site, but is at least 50 feet thick based on Site borings.

Soil boring and well construction logs are included as Attachment A.

2.1.2 Hydrogeology and Groundwater Flow

Farallon (Farallon, 2008a) characterized the Site as being underlain by three groundwater zones – Shallow (5-25 feet bgs), Intermediate (25-35 feet bgs), and Deep (35-55 feet bgs). However, the strata containing these zones are discontinuous over short distances and are not separated by confining units; thus, on a local scale, groundwater occurs as a single aquifer flowing southeasterly to discharge points along the Sammamish River.

Shallow groundwater is encountered at the Site between 5 to 25 feet bgs in fill and sandy glacial outwash deposits. Monitoring wells MW-1 through MW-7, MW-10R, MW-19, MW-21, MW-23, MW-25, MW-27, MW-29, MW-30, MW-37, MW-40, HZ-MW-1, HZ-MW-4, HZ-MW-14S, HZ-MW-15S, HZ-MW-16, HZ-MW-17, HZ-MW-19, HZ-MW-21, HZ-MW-22, HZ-MW-32, HZ-MW-31, HZ-MW-34, S-MW-1, S-MW-2, and S-MW-5 are screened and completed in the Shallow groundwater zone.

Intermediate groundwater occurs from approximately 25 to 35 feet bgs at the Site in medium dense interbedded sand and silty sand glacial outwash. Monitoring wells MW-14, MW-15, MW-18, MW-26, MW-28, MW-36, HZ-MW-14D, HZ-MW-15D, HZ-MW-23, HZ-MW-24, HZ-MW-26, HZ-MW-28, HZ-MW-29, HZ-MW-33, and S-MW-3 are screened and completed in the Intermediate groundwater zone.

Deep groundwater occurs from approximately 35 to 55 feet bgs at the Site in dense interbedded sand, silty sand, and silty glacial till. Monitoring wells MW-9, MW-13, MW-16, MW-17, MW-20, MW-21, MW-22, MW-24, MW-31, MW-32, MW-33, MW-34, MW-35, MW-38, MW-39, HZ-MW-25, HZ-MW-27, HZ-MW-30, and S-MW-4 are screened and completed in the Deep groundwater zone.

Groundwater monitoring well locations are presented in Figure 9, and monitoring well information, along with the surveyed well elevations is included in Table 3.

Horizontal gradients: Horizontal groundwater flow in all zones is generally to the east-southeast, at gradients of around 0.03 feet/foot. Figures 10a, 10b, and 10c show the interpreted groundwater gradients measured in September 2016 in the Shallow, Intermediate, and Deep groundwater zones, and Figures 11a, 11b, and 11c show the interpreted groundwater gradients measured in November 2016 in the Shallow, Intermediate, and Deep groundwater zones. Figures 12a, 12b, and 12c show interpreted groundwater gradients of the Shallow, Intermediate, and Deep groundwater, measured in November 2015 and Figures 13 and 14 show interpreted groundwater gradients of 2013 and 2014, respectively. A

rose diagram, which depicts the general groundwater flow directions for the three groundwater zones in November 2015, September 2016, and November 2016, is included as Figure 15.

Vertical gradients: Vertical gradients were assessed at several locations where a pair or trio of wells screened in different water-bearing zones were located near each other. The vertical gradient was calculated by dividing the difference in water level elevations by the vertical elevation difference of the well screens (assumed to be the midpoint of each screen). The vertical gradient was found to be downward in most areas, except for upward gradients measured at MW-7/MW-12/MW-22; MW-15/MW-20; and MW-6/MW-8/MW-11.

Table 4 Vertical Gradient Pairs

Well	Water Bearing Zone	Screen Interval (feet bgs)	Date	GWE (feet MSL)	Vertical Gradient (feet/foot)	Direction
MW-7	Shallow	10 to 25	11/11/2015	35.452		
MW-12	Intermediate	25 to 33	11/11/2015	35.93	-0.042	upward
MW-12	Intermediate	25 to 33	11/11/2015	35.93		
MW-22	Deep	54 to 59	11/16/2015	36.843	-0.034	upward
HZ-MW-14S	Shallow	5 to 15	11/11/2015	34.789		
HZ-MW-14D	Intermediate	30 to 40	11/11/2015	34.309	0.019	downward
HZ-MW-15S	Shallow	10 to 15	11/12/2015	34.788		
HZ-MW-15D	Intermediate	20 to 30	11/11/2015	34.628	0.013	downward
MW-1	Shallow	5 to 20	11/11/2015	36.922		
MW-20	Intermediate	25 to 30	11/16/2015	37.7	-0.052	upward
MW-6	Shallow	10 to 25	11/11/2015	36.984		
MW-8	Deep	45 to 50	11/11/2015	36.633	0.012	upward
MW-8	Deep	45 to 50	11/11/2015	36.633		
MW-11	Intermediate	25 to 33	11/11/2015	36.91	0.015	upward
MW-2	Shallow	5 to 20	11/28/2007	41.22		
MW-18	Intermediate	22 to 30	11/28/2007	40.34	0.065	downward
MW-18	Intermediate	22 to 30	11/28/2007	40.34		
MW-17	Deep	40 to 50	11/28/2007	39.14	0.063	downward
MW-15	Intermediate	22 to 32	11/28/2007	39.38		
MW-16	Deep	45 to 55	11/28/2007	38.8	0.025	downward
MW-13	Deep	40 to 55	11/28/2007	40.69		
MW-14	Intermediate	22 to 32	11/28/2007	39.85	-0.041	upward

Notes:

feet bgs – feet below ground surface

feet MSL – feet above Mean Sea Level

Well pairs MW-12/MW-22, MW-15S/MW-15D, and MW-1/MW-20, were not measured on the same day, and the calculated vertical gradient and direction are considered estimates.

Seasonal trends: Most wells exhibit 2 to 3 feet of seasonal or yearly variation, with higher groundwater levels generally in the spring, and lower groundwater levels in late summer or fall, as typical for this region.

Groundwater flow rates: Kane Environmental reviewed geotechnical sample data provided by HWA GeoSciences (2016), which included effective porosity data (Table 5, HWA, 2016). Soil samples were collected at varying depths at four soil boring/monitoring well locations. Seven samples were collected in Shallow aquifer materials, and four samples were collected in Intermediate and Deep aquifer materials. Effective porosity values ranged from 0.24 to 0.36. The average value for both the Shallow and Intermediate/Deep aquifer was 0.30.

Based on a calculated gradient of 0.03 feet/foot across the Site (all aquifers), and hydraulic conductivities calculated from the pumping test analyses, the calculated Shallow aquifer average linear velocity is 0.03 feet per day, and Intermediate/Deep velocity is 1.14 feet per day. The calculation data is summarized on Table 5, below.

Table 5 Groundwater Flow Velocity, Bothell Service Center

Aquifer	Average K (feet/day)	n	Gradient dh/dl (feet/feet)	Velocity (feet/day)
Shallow	0.27	0.3	0.03	0.03
Int/Deep	11	0.3	0.03	1.14

The calculated velocities in Table 5 are lower than those observed during the 2005 Tracer Dye Tests (9 to 13 feet per day) discussed in Section 1.5 (Farallon, 2008a). The higher observed velocities may be attributed to preferential flow in the Shallow water-bearing zone.

2.1.2.1 Pump Test Procedures and Findings

Six wells were initially selected for pumping tests on February 1 and 2, 2017 (Figure 9). Three Shallow wells, two Intermediate-depth wells and one Deep well were tested within the glaciofluvial aquifer at the BSCA property. Based on the findings of the preliminary aquifer testing, selected wells were retested and additional new wells were tested on March 1 and 2, 2017. The tested wells are tabulated below.

Table 6 Tested Wells, Bothell Service Center

Well ID	Aquifer zone	Total Depth	Screened interval (feet bgs)
February 1-2, 2017			
MW-06	Shallow/Intermediate	25	10-25
MW-11	Intermediate	33	25-33
MW-34	Deep	50	40-50
MW-25	Shallow	17.5	7.5-17.5
MW-26	Intermediate	35	25-35
MW-27	Shallow	17	6-16
March 1-2, 2017			
MW-28	Intermediate	35	25-35
MW-26	Intermediate	35	25-35
MW-20	Intermediate	35	25-35
MW-19	Shallow	15	10-15

These wells were selected for their proximity to each other for use as observation wells and as representative of hydrogeologic conditions across the BSCA property. The wells were selected to be in a line roughly perpendicular to the interpreted groundwater flow direction at the BSCA property (generally to the east-southeast). Many of the wells are depicted on cross section B-B' in Figure 6. The Shallow wells were also selected to be representative of the range of geologic conditions in the Shallow aquifer sequence at the BSCA property. MW-06 was representative of transitional conditions between the Shallow and underlying Intermediate Zones, and MW-19, MW-25 and MW-27 were more representative of the Shallow water bearing zone. MW-19 was also selected as representative of conditions downgradient of the contaminant source area and as representative of potential remedial system well installation locations.

The Intermediate and Deep wells were selected based on well log review and the associated geologic cross section generated from BSCA property boring logs. These wells were selected as representative of the interbedded silt and silty sand conditions prevalent in the glaciofluvial aquifer at depths of 25 to 50 feet bgs. These wells have all undergone development prior to sampling.

Boring logs of the selected wells are included as Attachment A.

Specific Test Parameters

Discharge: Pumping tests were accomplished with a Geotech SS Geosub submersible pump with a variable-rate controller. The pump discharge hose was affixed to an on-site temporary holding tank for later treatment with activated carbon and discharge to public sanitary sewer under permit. Flow rate measurement was tracked via a graduated container and a stopwatch.

Data recording: Aquifer test data was collected using hand measurements and a programmable pressure transducer and datalogger. Because of the distance between wells on the BSCA property (approximately 50 feet), and assumed low-permeability deposits (silts and silty sands identified during drilling), measurement of observation wells was not conducted during the February aquifer testing event. Based on hydraulic conductivity and preliminary radius of influence calculations during the first round of pump tests, selected observation wells were monitored during the supplementary March aquifer testing event.

Step test: Step tests were used to determine the optimal long-term test pumping rate and to assure that overpumping of the wells did not occur during the final test.

The exceptions to this were the three Shallow-well tests, where the pumping rate could not be varied, or in wells that did not respond to variable rate pumping. Step-testing was attempted at the Shallow wells with multiple pumps, but it was found that the selected submersible test pump would not vary the pumping rate, possibly due to the relatively low submergence (less than 10 feet). In the case of well MW-25, the pumping water level decreased to the pump intake within four minutes at a low pumping rate (less than one gallon per minute) and the test was halted. Likewise, at MW-19, the groundwater elevation decreased to the pump intake within six minutes at 0.5 gpm; however, the well was able to maintain the test discharge, and the aquifer test was continued for 36 minutes in order to confirm radius of influence effects in observation wells.

During pumping tests in the Intermediate and Deep wells, each step lasted approximately 13 to 20 minutes. Variable pumping rates ranged from approximately 0.6 to 3.7 gallons per minute. At the end of each step, the pumping rate was increased to the next discharge rate without shutting down the pump. The final step rate was the maximum sustained pumping rate for the individual aquifer test. The individual test parameters are summarized on Table 7.

Charts of the individual pumping tests drawdown and recoveries are included as Attachment B.

Constant-rate test: At the end of the step tests of Intermediate and Deep zone wells, the constant-rate tests were a continuance of the final, highest-rate step. The test was conducted in this manner because

pump drawdown was considered sufficient to demonstrate aquifer characteristics, and drawdown appeared to be stabilizing. The constant-rate tests were conducted for a sufficient period of time that the variable pumping rates of the step tests were considered to be negligible. Total pumping time ranged from 80 to 180 minutes in stepped pumping tests. The shallow wells were not step-tested, and the test durations ranged from 4 to 130 minutes. Water level measurements were collected using hand measurements and a datalogging pressure transducer at the pumping well.

Pump test shutdown: At shutdown, water level recovery was monitored at the selected wells for approximately 60 minutes, or until the water level had recovered to at least 95% of the original static water level.

Pumping Test Analysis: Significant drawdown was measured in all of the pumping wells during the aquifer tests, including wells pumped at low discharge rates. Maximum drawdowns during pumping ranged from approximately 2 to 11.5 feet.

Aquifer hydraulic permeability was calculated using the recovery phase of each individual pumping test. Recovery data is independent of well efficiency and pumping stress influences. The data analysis used the Cooper-Jacob analyses for recovery, which is considered reliable for analyses of confined aquifer conditions, similar to those anticipated at the BSCA property. The tests were analyzed using a spreadsheet macro available from the United States Geological Society (U.S.G.S., 2002). The MW-25 test data was analyzed using the Bouwer-Rice rising-head slug test analysis because of the short duration of the test (GroundwaterSoftware.com. 2017). Pumping test datasets and calculation summaries are included as Attachment B.

Shallow well hydraulic conductivities varied the most of the three aquifer zones. The calculated conductivities ranged from 0.008 feet per day (feet/day) to 7 feet/day. This is attributed to the generally silty soils in this Shallow water-bearing zone found across the BSCA property. The hydraulic conductivity at MW-06 (2 feet/day) is the highest of the three tested wells. This well is also completed deeper than the other two wells (25 feet vs less than 20 feet) and is likely completed in sandier materials. MW-06 was installed by a previous contractor, ERM, in 2001, and a well log is not available. MW-19 was installed by HWA GeoSciences in 2014. The well log reports the total well depth to be 15 feet, but field measurements confirmed the actual total depth to be approximately 20 feet.

Intermediate and Deep well hydraulic conductivities varied less than those calculated at the Shallow wells. The calculated conductivities ranged from 6.6 to 18 feet/day. These conductivities are consistent with the interbedded silts and silty sand observed during drilling of the wells. MW-11 was installed by Farallon Consulting in 2008, and the remaining wells were installed during Kane Environmental's RI/FS activities in 2016. Well logs are attached for reference. Well MW-06's calculated hydraulic conductivity

(7 feet/day) is more consistent with these values and may be more representative of the Intermediate aquifer zone than the Shallow aquifer zone. Aquifer transmissivity for all tests was calculated based on screened intervals (10 to 15 feet).

For confirmation purposes, Kane Environmental evaluated the three selected Shallow wells (MW-06, MW-19, and MW-27) using Theis methods and unconfined aquifer assumptions (MW-25 was not re-evaluated due to its brief pumping and recovery). The evaluation used the individual screen lengths as the aquifer thickness. With respect to the prior Cooper-Jacob analyses, the Theis analyses for conductivity values were slightly higher, but remained within the same order of magnitude as the prior analyses. Likewise, the transmissivities were comparable. This is attributed to the thinner assumed aquifer thickness (10 to 15 feet versus 42 feet).

Kane Environmental interprets the Intermediate/Deep aquifer to behave as an essentially confined aquifer, because the permeability of the 10 to 15 foot thick silt sequence overlying the lower portions of the aquifer is generally one to two orders of magnitude lower than that calculated for the deeper portions of the aquifer. However, based on Ecology comments, Kane Environmental re-evaluated the Cooper-Jacob recovery analyses with the assumed aquifer thickness consistent with screen lengths. As above, the transmissivities were consistent with prior analyses, although the conductivities increased proportionally to the thinner assumed aquifer (10 feet versus 42 feet).

The pumping test parameters and calculations are summarized on Table 8.

Radius of Influence: During the March aquifer testing, observation wells were selected at varying distances from pumping wells. The observation wells were selected to assess for potential radius of influence for remedial design. During supplemental aquifer testing of Intermediate aquifer wells, both Intermediate and Deep wells were selected for observations, as prior testing indicated that the aquifer characteristics were similar throughout those portions of the aquifer. Wells in closer proximity to MW-28 were not monitored due to containers obstructing well access. Shallow wells in the contaminant source area and downgradient were monitoring during the MW-19 test.

Drawdown effects at distance were measured in all observation wells during the aquifer testing. During Intermediate well pumping, drawdown was measured in both Intermediate and Deep wells at distances of up to 90 feet. Drawdown was measured in Shallow aquifer wells at distances of up to 50 feet, indicating that the preliminary well spacing of 50 feet between Shallow remedial wells will create sufficient interference effects to maintain hydraulic control. A summary of observed drawdown is provided on Table 9.

In addition to observation well data, radius of influence (R_o) calculations were made using an empirical relationship developed by Sichart (Powers, 1992). The calculated hydraulic conductivities are entered into the following equation:

$$R_o = 3000(H-h)K^{1/2}$$

Where: 3000 = empirical constant

H-h = observed drawdown at pumping well (meters)

K = hydraulic conductivity (meters/sec)

A summary table of the calculated R_o for the three aquifer zones is included as Table 10. Average hydraulic conductivities for each aquifer zone are used for the basis of calculations. Well MW-06 conductivity was incorporated in the 'Intermediate' calculation because the pumping test data and well completion is more consistent with those wells.

Consistent with the hydraulic conductivities, calculated R_o varies an order of magnitude between the separate aquifer zones. However, the calculated R_o for the Shallow aquifer wells was significantly less than those observed during aquifer testing. Because the observed R_o was greater than the calculated R_o of all the tested wells, the observed data is considered reliable for remedial design. The calculated R_o for Intermediate and Deep aquifers appears to be more consistent with those observed during aquifer testing.

2.1.3 Surface Water and Sediments

Horse Creek is the historic drainage in the project area, is currently entirely tight-lined east and west of the Site, and eventually discharges into the Sammamish River approximately 700 feet to the south.

With the exception of small landscaped areas, the Site is mostly covered by the former BSCA building concrete floor footprint and asphalt pavement.

The sanitary sewer at the BSCA property was disconnected during the building demolition. The underground piping is still in-place, and runs from the west side of the former building, the location of the former dry cleaning operation, easterly along the northern portion of the former building to the east side of the former building, then connected to the sewer manhole located east of the former BCSA building (Figure 3).

A northwest-southeast-trending storm drain runs beneath the central portion of the former strip mall building and parking lot, where it intersects a storm drain running parallel to the north side of the vacated portion of SR522 adjacent to the southern property boundary. The City of Bothell utility map indicates that the storm drain main in the vacated portion of SR522 intersects the Horse Creek culvert approximately 250 feet east of the Site.

2.2 Current Ecological Conditions

Potential ecological receptors are defined as terrestrial biota (e.g., birds, mammals, and plants) that inhabit or use, or have the potential to inhabit or use, the terrestrial habitats of the Site. Site use by ecological receptors is very limited due to current Site conditions (the Site is mostly paved and developed, and will soon be fully developed) and lack of nearby green space.

2.2.1 Terrestrial Ecological Evaluation

A Terrestrial Ecological Evaluation (TEE) is required under MTCA for sites with releases of hazardous substances to soil, unless the site meets one or more exclusions to be exempt from the TEE. The Site qualifies for a TEE exclusion under MTCA because barriers (paving, buildings) are currently present and will be constructed to prevent exposure. Institutional controls may be implemented to maintain the barriers.

3.0 REMEDIAL INVESTIGATION (RI)

Based on the results of this Site characterization and interim remedial activities, the chemicals of concern (COCs) in soil and groundwater are:

- HVOCs, primarily PCE, TCE, Cis-1,2 DCE, and vinyl chloride (VC)

RI activities were performed in October and November 2015, and July 2016 through June 2017. RI activities were designed to fill the following data gaps prior to 2015 regarding physical and chemical aspects of the Site and associated HVOC impacts:

- Source Area Soil Delineation: the nature and extent of impacts to soil on the Site that might be acting as a source for the groundwater plume had not been completely delineated, in addition to addressing data gaps and characterizing the geology and hydrogeology of the BSCA property with respect to confining layers and vertical distribution of contaminants.
- Extent of HVOC Impacts in Groundwater: supplemental Site characterization delineated the horizontal and vertical extent of HVOCs in groundwater.
- Collect Treatability Information: perform physical and chemical testing of soil samples to better understand subsurface hydrogeologic conditions, chemistry, and aquifer properties in order to select and design soil and groundwater remediation methods.

Additionally, according to the results of the 2010 subsurface investigation on the former Schucks property (Floyd & Snider, 2010; Attachment G), a soil sample, GP-12: 6 ft located just to the southeast of the BSCA property, contained a concentration of gasoline in exceedance of MTCA Method A cleanup level. This is associated with a separate source from the former Schucks property, and based on the analytical results, are limited in extent. Prior groundwater samples in this area have indicated comingled HVOC and petroleum hydrocarbon concentrations (HWA, 2006) **The petroleum hydrocarbon contamination at the former Schucks property has not been fully investigated and will not be addressed under the proposed cleanup and consent decree.**

3.1 HWA Geosciences, 2015

Site assessment activities by HWA Geosciences (HWA) were conducted between October and November of 2015.

3.1.1 Site Assessment Related Activities

Site assessment activities by HWA were supported by the activities detailed in the subsection below.

3.1.1.1 Site Survey

Wells included in the groundwater monitoring event performed for this RI were surveyed on November 16, 2015 to establish vertical control at the top of casing (TOC). Surveying was performed by DOWL of Seattle, Washington. Kane Environmental had all monitoring wells on the Site re-surveyed during the field activities conducted in the fall of 2016 (Section 3.2).

3.1.2 HWA Geosciences Field Activities

Field activities performed by HWA for this RI in 2015 included:

- Advancing three soil borings inside the west interior retail space of the building to collect soil samples below the building foundation where former dry cleaning operations were located. These activities were performed in October 2015.
- Advancing eight soil borings using direct-push technology combined with a membrane interface probe (MIP) to collect in-situ data regarding subsurface hydrogeologic conditions and HVOC concentrations. The results of the MIP investigation were inconclusive, and supplemental soil and groundwater sampling in August through November 2016 provided soil and groundwater data results, including the installation of new groundwater monitoring wells, that are sufficient to replace the intended MIP results (Section 3.2). Therefore, the MIP data has not been included in the dRI/FS.
- Advancing four soil borings using a hollow-stem auger drilling rig to evaluate subsurface hydrogeologic conditions and install groundwater monitoring wells (MW-19 through MW-22).
- Collecting groundwater elevation data, groundwater chemistry data, and groundwater samples for chemical analysis at new and existing monitoring wells.
- Surveying new and existing wells to a common geodetic datum.

These activities are described in detail below.

3.1.2.1 Soil Sample Collection Methodology

On October 23, 2015, three direct-push soil borings (IntB-1, IntB-2 and IntB-3) were advanced beneath the foundation of the building in the vicinity of the former dry cleaning machinery. Soil boring locations are illustrated on Figure 16. Drilling was performed by Cascade Drilling of Woodinville, Washington (Cascade) using a track-mounted GeoProbe® 54LT limited access rig. Soil borings IntB-1, IntB-2 and IntB-3 were advanced to limited depths of 8 feet, 5 feet, and 2 feet below the interior floor due to drilling

refusal. Continuous soil cores were collected at each location. Soil samples were classified using the unified soil classification system (USCS), field-screened with a photoionization detector (PID), and logged on HWA boring logs. Copies of soil boring logs are included in Attachment A. Soil cores were collected within acetate sleeves, and those portions (samples) selected for laboratory analysis were placed into laboratory-supplied sample containers and placed in a cooler with ice.

Four soil borings (MW-19 through MW-22) were advanced in the parking lot south and east of the former dry cleaner, using a hollow-stem auger CME-75 truck-mounted drill rig in November 2015. Borings MW-19, -20, and -21 were advanced to approximately 80 feet bgs and MW-22 was advanced to approximately 69 feet bgs (the depth of refusal). Hollow-stem auger borings were advanced to collect soil samples for laboratory analysis and to install additional groundwater monitoring wells.

Soil samples were collected at approximately 5-foot intervals. Soil samples were collected using a 2.5-inch outer diameter split-spoon sampler driven with a 300-pound hammer on a wireline, designed to retrieve 1.5-foot long samples. Field-screening activities included screening with a PID and visual inspection. Soil samples were collected for soil lithology identification, field screening, and laboratory analysis. HWA's lithologic descriptions, blow counts, and PID readings were recorded on the HWA boring logs (Attachment A).

Soil samples selected for geotechnical analysis were collected in stainless steel sleeves placed inside the split-spoon sampler. The sleeves were removed, capped at both ends, labeled with pertinent sampling information, placed in an insulated cooler and transported to HWA's geotechnical laboratory for analysis. Soil samples selected for chemical analysis were removed from the split spoon sampler and placed directly into clean, unused, laboratory-supplied containers. Samples were labeled with pertinent sampling information, transferred to an ice-filled, insulated cooler, and transported to OnSite Environmental (OnSite) in Redmond, Washington, under chain-of-custody procedures.

Drilling equipment was cleaned using a steam cleaner prior to drilling each boring. Sampling equipment was cleaned prior to each use by a scrub wash using potable or distilled water andalconox or other low-phosphate detergent and rinsed with potable or distilled water.

3.1.2.2 Temporary Well Collection Methodology

Temporary wells were installed during the November 2015 drilling to allow for collection of "grab" groundwater samples from specific depths in each borehole during drilling. Temporary wells were constructed inside the augers using similar materials as the permanent wells: 2-inch diameter, schedule 40 PVC with five-foot long, 0.010-inch slotted screens. The "grab" groundwater samples were collected from the temporary wells using a peristaltic pump and dedicated, disposable tubing. Up to three grab

groundwater samples, each from different/discrete depths, were collected from each of the hollow-stem auger borings and submitted for chemical analysis. Temporary wells were discarded after sample collection and were not reused.

Grouting procedures for the borings included mixing a bentonite-cement grout, lowering a tremie pipe down the augers and pumping the grout from the bottom of the borehole to the top of the borehole under pressure. Surface completion was accomplished using mortar mix or cold-patch asphalt to match surrounding surface conditions.

3.1.2.3 Monitoring Well Installation Methodology

During the HWA November 2015 activities, groundwater monitoring wells were installed in each hollow-stem auger boring in accordance with Ecology guidance. Monitoring wells were constructed of 2-inch-diameter, schedule 40 PVC with 5-foot long, 0.010-inch slotted screens. The annular space around the screen was filled with a sand pack (number 2/12 sand) to a height of approximately 2 feet above the top of the screen. When the top of the well screen was below the depth of groundwater, a cement-bentonite grout was placed above the sand pack using a grout pump and tremie pipe to approximately 1 to 2 feet bgs. When the top of the well screen was above the depth of groundwater, a bentonite seal was placed to approximately 1 to 2 feet bgs. A concrete plug was completed with a flush-mounted bolt-down traffic-rated vault set in the concrete. A locking, water-tight well plug was placed in the top of casing.

Shallow monitoring wells with screens from 10 to 15 feet bgs were installed in MW-19 and 21. An Intermediate well with a screen from 25 to 30 feet bgs was installed in MW-20. A Deep well screened from 54 to 59 feet was installed as MW-22. The locations of monitoring wells MW-19 through MW-22 are shown on Figure 9. Copies of the HWA boring logs with well construction diagrams are included in Attachment A.

3.1.2.4 Monitoring Well Sample Collection Methodology

Monitoring wells were developed at least 48 hours after installation to remove sediment that may have accumulated in the casing or sand pack during installation. Development was performed using a submersible pump and surge block.

Groundwater monitoring was performed on November 12, 13, and 16, 2015. Groundwater samples were collected from the newly installed monitoring wells (MW-19 through 22) and the following existing wells: MW-1, 2, 4 through 9, 10, 12, 13 and HZ-MW-4, -14S, -14D, -15S, -15D, and -19. Monitoring well locations are shown on Figure 9.

Groundwater samples were collected using low-flow purging techniques. Field parameters were measured during purging, and included: pH, temperature, oxygen reduction potential, dissolved oxygen, electrical conductivity, and depth-to-water. Field parameter measurements were recorded on HWA field forms. Groundwater samples were collected in clean, unused, laboratory-supplied containers, labeled with pertinent sampling information, transferred to an ice-filled, insulated cooler, and transported to OnSite Environmental under chain-of-custody procedures.

3.1.3 Analytical Methods

A total of 47 soil samples were submitted to OnSite Environmental and analyzed for the following:

- Halogenated Volatile Organic Compounds (HVOCs) using EPA Method 8260C; and
- Total organic carbon using SM 5310B.

A total of 29 groundwater samples were submitted to OnSite Environmental and analyzed for the following:

- HVOCs using EPA Method 8260c;
- Nitrate (as nitrogen) using EPA Method 353.2;
- Sulfate using ASTM Method D516-07;
- Dissolved gases methane, ethane, and ethane using Method RSK 175;
- Chloride using standard method (SM) 4500-CL E; and
- Total organic carbon (TOC) using SM 5310B.

Copies of original laboratory reports are included in Attachment B.

Analytical results for soil samples collected during the RI are summarized in Table 1. Analytical results for groundwater samples collected during the RI as well as historical groundwater analytical data are summarized in Table 2.

3.1.3.1 Laboratory QA/QC Procedures

Attachment C contains the HWA laboratory reports and a data quality assessment.

No major quality control issues were identified and all reported data should be considered valid as qualified and acceptable for further use.

3.1.4 Geotechnical Analysis of Soil Samples

Samples selected for geotechnical analysis were submitted to HWA's geotechnical laboratory for the following analyses:

- Moisture Content (%)
- Dry Density (pcf)
- Specific Gravity (g/cc)
- Hydraulic Conductivity (cm/s)
- Void Ratio (Dimensionless)
- Total Porosity %
- Effective Porosity %

Although only bulk density and effective porosity were specified in the work plan, measurement of effective porosity requires measurement and calculation of moisture content, void ratio, and total porosity, and the resulting data allows for calculation of hydraulic conductivity.

Twelve total samples were submitted for geotechnical analysis: 11 from the new monitoring well borings (MW-19, MW-20 and MW-22) and one from interior boring Int-B1. One sample from 54.5 feet in MW-22 was too disturbed and was not analyzed. The physical properties of the samples are discussed below. The geotechnical analysis was not used for development of the remediation alternatives.

The sample from Int-B1 was collected from 6.75 feet bgs. It is the shallowest sample and the only sample collected from beneath the building that was submitted for geotechnical analysis. This sample was a slightly silty sand with gravel. The gravel content is likely responsible for this sample having the highest specific gravity, hydraulic conductivity, and void ratio. The location beneath the building likely explains its low moisture content. The other samples displayed physical properties typical of alluvial silty sands. Effective porosities near or approaching total porosities indicates little "dead" or inaccessible void spaces, which is favorable for in situ or other cleanup methods that rely on movement of air or water through soils. The four samples where effective porosity exceed total are considered equal, i.e., the difference falls within the precision of the test.

Density, effective porosity, and hydraulic conductivity values will be used to design cleanup systems that rely on movement of air or water through soils.

3.2 Kane Environmental, 2016-2017

Site assessment activities by Kane Environmental were conducted between July of 2016 and February of 2017.

3.2.1 Site Assessment Related Activities

Site assessment activities by Kane Environmental were supported by the activities detailed in the subsection below.

3.2.1.1 Utility Locate

Kane Environmental contacted the Washington Utilities Underground Location Center prior to starting the fieldwork to conduct a general locating survey for telephone, gas, water, sewer, communication, and electric service for study areas at the Site. Areas identified as utility corridors by Washington Utilities Underground Location Center were marked.

Private utility locator, Mountain View Locating of Bonney Lake, Washington, was retained to perform on-property utility surveys, including ground penetrating radar (GPR) to determine if underground utilities and structures were located in areas of the drilling activity throughout the Site.

3.2.1.2 Site Survey

In order to identify the horizontal coordinates and vertical elevation of the groundwater monitoring wells, Kane Environmental retained DOWL of Redmond, Washington to conduct a survey of the existing groundwater monitoring wells in addition to those installed by Kane Environmental in August 2016 through November 2016. The vertical datum utilized was NAVD88. Monitoring well top of casing (TOC) elevations are listed with other monitoring well information in Table 3.

3.2.1.3 Health and Safety Briefing

A health and safety briefing was conducted prior to all field activities. Potential contaminants, hazardous activities, and preventative measures were discussed. All field personnel from Kane Environmental, Cascade Drilling, L.P. (Cascade), Holt Services Inc (Holt), and Environmental Services Network, Northwest (ESN) were properly trained and licensed to perform the work.

3.2.2 Kane Environmental Field Activities

Field activities performed for this RI in 2016 and 2017 included:

- Cascade advanced 17 soil borings inside and outside the footprint of the former building on the BSCA property using a direct-push limited access rig (LAR) in July of 2016. At the time of this sampling event, the building was still in place. Borings were advanced in the vicinity of the former

dry cleaning operations, along the sanitary sewer line, and along the storm sewer line. These boring locations were selected to analyze potential pathways of contaminant migration.

- Holt advanced 30 soil borings throughout the Site using hollow-stem auger (HSA) and sonic drilling rigs in August and September of 2016. The building was not present at the time of this sampling event. Borings were advanced to evaluate the subsurface hydrogeologic conditions and install 28 additional groundwater monitoring wells.
- ESN advanced seven soil borings throughout the BSCA property using direct-push drilling rigs to evaluate vadose zone soils. Holt advanced five additional borings using an HSA rig to evaluate the subsurface hydrogeologic conditions and install five additional groundwater monitoring wells. This work was completed in October of 2016.
- Cascade advanced five borings throughout the former Hertz property and 98th Avenue NE using HSA and direct-push drilling rigs to evaluate the subsurface hydrogeologic conditions and install five additional groundwater monitoring wells. This work was completed in November of 2016.
- ESN advanced four soil borings on the BSCA property, near the source area, and one soil boring in 98th Avenue NE using a direct-push drilling rig to evaluate the extent of impacted soils near the source area. This work was completed in February 2017.
- ESN advanced nine soil borings on the BSCA Property, four soil borings in 98th avenue NE, and one soil boring on the former Wexler/Schucks property using a direct-push rig to evaluate the extent of impacted soils in the 5 to 25-foot depth range. This work was completed in June 2017.
- Kane Environmental field personnel collected groundwater elevation data, groundwater chemistry data, and groundwater samples for chemical analysis at new and existing monitoring wells.

These activities are described below.

3.2.2.1 Soil Sample Collection Methodology

During the July 2016 field activities, soils were collected from near surface soils in the approximate depth of the sanitary and storm sewer lines, ranging from approximately 0 to 6 feet bgs. Soil samples were collected using acetate liners placed inside the direct-push rods. Two discrete grab soil samples were also collected from above and below an exposed sanitary sewer joint 5 feet bgs (samples "Sewer:Above" and "Sewer:Beneath"). One additional discrete grab soil sample was collected from soils in the vicinity of the water services cutoff in the southeast corner of the BSCA property (sample "Water-1"). Soil samples were logged for physical properties such as grain size, color, and moisture. Kane Environmental boring

logs are included in Attachment A. Where required, soil samples were obtained utilizing the collection, preparation and preservation methods outlined in EPA Methods 5030 and 5030b.

For the July 2016 field activities, the soil sampling nomenclature identified each soil sample with its boring location, followed by a number designating the sample depth in inches. For example, "KSB-17: 12 in-24 in" was from temporary boring KSB-17 on the BSCA property and was collected from 12 to 24 inches bgs. These soil samples were immediately analyzed by an on-site mobile laboratory, Dragon Analytical (Olympia, Washington).

During the August and September 2016 field activities, borings were advanced to depths ranging from 16.5 feet bgs to 90 feet bgs to collect soil samples in the vadose and saturated zones, and install additional groundwater monitoring wells in three generalized groundwater depth zones, Shallow (5-25 feet bgs), Intermediate (25-35 feet bgs) and Deep (35-55 feet bgs). Shallow and Intermediate depth borings were primarily installed by the HSA while the Deep borings were installed by a Sonic rig. Soil samples for the Shallow and Intermediate borings were collected at approximately 5-foot intervals using a 2.5-inch outer diameter split-spoon sampler driven with a 300-pound hammer on a wireline, to retrieve 1.5-foot long soil columns. Soil samples for the Deep borings were collected at 5-foot intervals for the first 10 feet, then every 10 feet using a continuous sampler, to retrieve two, 5-foot columns. Drilling equipment was decontaminated using Alconox® detergent, rinsed with distilled water, and rinsed with isopropyl alcohol. Soil samples were collected from the interior portion of the soil columns to eliminate potential sample volatilization. Soil columns were logged for physical properties such as grain size, color, and moisture. Kane Environmental boring logs are included in Attachment A. Soil samples were obtained utilizing the collection, preparation and preservation methods outlined in EPA Method 5035c, as required by Ecology.

During the October and November 2016, and February and June 2017 field activities, direct-push soil samples were collected, using acetate liners placed inside the direct-push rods. Soils were collected at depths above the vadose zone, between 0 and 10 feet bgs during the October and November activities, at depths between 0 and 15 feet bgs during the February activities, and at depths between 0 and 25 feet bgs during the June activities. During the November 2016 activities, five additional groundwater monitoring wells were installed by HSA and Sonic rig. HSA samples were collected at approximately 5-foot intervals using a 2.5-inch outer diameter split-spoon sampler driven with a 140- or 300-pound hammer on wireline, to retrieve 1.5-foot soil columns. Sonic rig soil samples were collected at 5-foot intervals for the first 10 feet, then every 10 feet using a continuous sampler, to retrieve two, 5-foot columns. Drilling equipment was decontaminated using Alconox® detergent, rinsed with distilled water, and rinsed with isopropyl alcohol. Soil samples were collected from the interior portion of the soil columns. Soil columns were logged for physical properties such as grain size, color, and moisture. Soil

samples were obtained utilizing the collection, preparation and preservation methods outlined in EPA Method 5035c, as required by Ecology.

For the August through November 2016, and February and June 2017 field activities, the soil sampling nomenclature identified each soil sample with its boring location or eventual monitoring well designation, followed by a number designating the sample depth in feet. For example, soil sample “MW-40-5” was from the monitoring well boring MW-40, on the BSCA property, and the sample was collected at 5 feet bgs. Soil sample “KSB-22:7” was from the boring location KSB-22, on the BSCA property, and the sample was collected from 7 feet bgs. Soil sample “HZ-MW-24:30-31” was from the monitoring well boring HZ-MW-24, on the former Hertz property, and the sample was collected from 30 to 31 feet bgs.

These soil samples were immediately placed into ice-filled coolers and subsequently transported to OnSite Environmental, under standard chain-of-custody procedures.

3.2.2.2 Monitoring Well Installation Methodology

Selected soil borings drilled during August through November 2016 were converted to two-inch diameter groundwater monitoring wells, with the final depth varying by location. The monitoring wells were installed by Holt Services Inc. (Holt) of Puyallup, Washington, in accordance with Washington State monitoring well construction standards and under the direction of a licensed driller (ASTM D 5092 and EPA 600-4-89-034).

The monitoring wells were constructed with ten feet of schedule 40 PVC screen and a slot size of 0.010 inches. The screened depth interval varied by location, with the Shallow wells screened between 5 feet and 25 feet bgs, the Intermediate wells screened between 25 and 35 feet bgs, and the Deep wells screened between 35 feet and 55 feet bgs. Two-inch diameter schedule 40 PVC casing was installed above the slotted screen. A sand pack was placed in the annular space from the well bottom to approximately two feet above the well screen and a bentonite seal from the top of the sand pack to approximately one-and-a-half to two feet bgs. The groundwater monitoring wells were completed with flush-mounted monuments surrounded by a concrete surface seal.

Locations of the monitoring wells are shown in Figure 9 and boring logs with well construction diagrams are included as Attachment A. Monitoring well information including installation date and consultant, and the water-bearing zone are included in Table 3.

3.2.2.3 Monitoring Well Sample Collection Methodology

Monitoring wells installed during the August through November 2016 activities were developed to remove sediment that may have accumulated in the casing or sand pack during installation. Existing wells on the

Sites were also developed to remove sediment that appeared to have accumulated in the well casing following the previous sampling activities. All well development occurred at least 48 hours prior to well sampling activities. Development was performed using a submersible pump and surge block.

Prior to collecting groundwater samples from the monitoring wells, depth to groundwater in each well was measured with a decontaminated electric water interface probe. The probe was cleaned with Alconox® detergent and rinsed with distilled water between sampling activities. Shallow groundwater monitoring wells were sampled using a peristaltic pump with disposable polyethylene tubing and Intermediate and Deep groundwater monitoring wells were sampled using a submersible pump with disposable PVC tubing. The tubing, or submersible pump, were lowered to approximately one foot above the bottom of the well screen.

All the newly installed monitoring wells were sampled in addition to all the existing wells, with the exception of MW-13 and MW-17, which both contained residual emulsified oil remedial injection product which prevented groundwater sampling. Monitoring wells were initially sampled between September 13 and September 27, 2016, with a second round between October 24, 2016 and November 2, 2016. Additional wells were sampled following installation on November 28, 2016 and January 3, 2017.

Unfiltered groundwater was placed into appropriate laboratory-supplied, pre-cleaned and preserved containers for analysis. The groundwater samples were immediately placed into ice-filled coolers and subsequently transported to OnSite Environmental under standard chain-of-custody procedures.

3.2.3 Field Screening Methods

Following collection, soil columns were inspected visually for any indication of contamination (discoloration and/or odor). Kane Environmental also used a photoionization detector (PID) to screen all soil columns for volatile organic compounds prior to sample collection practices. PID readings are included in the Kane Environmental boring logs (Attachment A).

3.2.4 Analytical Methods

Based on the identified COCs, select soil and groundwater samples were submitted to the laboratory and analyzed for the following:

- Halogenated Volatile Organic Compounds (HVOCs), by EPA Method 8260 and EPA Method 8021;

Copies of original laboratory reports are included in Attachment C.

Analytical results for soil samples collected during the RI are summarized in Table 1. Analytical results for groundwater samples collected during the RI as well as historical groundwater analytical data are summarized in Table 2.

3.2.4.1 Laboratory QA/QC Procedures

Internal test methods run by the laboratory to ensure data accuracy and reproducibility include method blanks, laboratory control standards, sample duplicates, matrix spikes, and matrix spike duplicates. All analyses were performed in accordance with Dragon and OnSite Environmental's in-house Quality Assurance/Quality Control Plans. Sample analyses were performed in compliance with EPA analytical methods and Ecology guidelines. All analyses were within accepted QA/QC guidelines

See Attachment C for full analytical data and all data qualifiers.

4.0 NATURE AND EXTENT OF CONTAMINATION

The Kane Environmental assessment activities were completed in order to assess potential impacts to the soil and groundwater at the Site and complete Site characterization. Kane Environmental advanced 29 additional soil borings and installed 38 additional monitoring wells throughout the Site.

4.1 Chemicals of Concern

As stated in Section 3.1, the chemicals of concern (COCs) in Site soil and groundwater are:

- HVOCs, primarily PCE, TCE, Cis-1,2 DCE, and VC

4.2 Impacts to Soil

In order to assess impacts to the Site and determine their extents requiring remedial action, sample analytical results were evaluated with respect to the following cleanup criteria:

- MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses (MTCA Table 740-1);
- MTCA Method B Non-carcinogenic Soil Cleanup Levels;

HVOCs in concentrations exceeding MTCA Method A and B cleanup levels occur in soil beneath, and to the west, southwest, south, east, and southeast of the former structure on the BSCA property. HVOC concentrations generally decrease with depth and distance from the source. Table 1 lists HVOC concentration data in soil. Figures 16, 17, and 18 show historical PCE concentrations in Site soils at depth intervals of 0 to 5 feet bgs, 5 to 25 feet bgs, and 25 to 55 feet bgs, respectively. Red and orange symbols indicate a sample location where PCE concentrations were detected above MTCA Method A Soil Cleanup Levels, the latter of which represents concentrations in exceedance of 14 mg/kg (RCRA Dangerous Waste Criteria). During 2016 and 2017 field activities, PCE concentrations in near-surface soils (0 to 5 feet bgs) near the source area ranged from 32 mg/kg (KSB-21) to non-detectable concentrations. Detectable concentrations of HVOCs, with periodic "hot spots" (in exceedance of cleanup levels), were identified in near-surface soils along the utility corridors of the BSCA property, such as KSB-10, and at depth southward along 98th Avenue NE (HZ-MW-30 and HZ-MW-31), indicating preferential flow paths that resulted in these hits. Vadose zone impacts to soil are predominantly limited to the BSCA property.

Concentrations of PCE which exceed RCRA Dangerous Waste Criteria were generally located beneath the former structure on the BSCA Property, and to the west and southwest, along 98th Avenue NE, at depths ranging from 7.5 to 15.5 feet bgs. Hot spots as high as 35,000 mg/kg (KSB-D3/MW-30) and 14,000 mg/kg (MW-24) were encountered beneath the northwest corner of the former building at depths

of 19 and 12 feet below ground surface, respectively. This coincides with the location of the former dry cleaning machine in this part of the former building.

Elevated concentrations of HVOCs in soil exceeding MTCA cleanup levels are generally located at depths of up to 50 feet bgs, except in MW-19 where soils exceeding MTCA cleanup levels are present at 60 feet bgs. 15 soil sampling locations were sampled at depths of 50 feet or greater. Soil samples collected below the water table (saturated soil samples) were analyzed for HVOCs to help evaluate cleanup alternatives by providing data to determine the mass of HVOCs in the saturated soils.

Figures 19, 20 and 21 show the approximate extent and magnitude of shallow soils (0 to 5 feet bgs), intermediate soils (5 to 25 feet bgs), and deep soils (25 to 55 feet bgs), respectively, with concentrations of PCE in exceedance of the MTCA Method A cleanup level.

Additionally, according to the results of the 2010 subsurface investigation on the former Schucks property (Floyd & Snider, 2010; Attachment G), a soil sample, GP-12: 6 ft located just to the southeast of the BSCA property, contained a concentration of gasoline in exceedance of MTCA Method A cleanup level. This is associated with a separate source from the former Schucks property, and based on the analytical results, are limited in extent.

4.3 Impacts to Groundwater

To assess impacts to the Site and determine the extent of impacts requiring remedial action, groundwater sample analytical results were evaluated with respect to the following criteria:

- MTCA Method A Cleanup Levels for Groundwater (MTCA Table 720-1);
- MTCA Method B Non-carcinogenic Groundwater Cleanup Levels.

HVOC contaminated groundwater extends to depths up to 55 feet bgs beneath the BSCA property, horizontally to the south and southwest beneath 98th Avenue, to the southeast and east-southeast beneath the vacated SR522 roadway onto the former Hertz property, and east onto the former Wexler/Schucks property. Table 2 lists HVOC concentration data in groundwater. Figures 22, 23, and 24 illustrate HVOC concentrations in Shallow, Intermediate, and Deep zones. Figures 25, 26, 27, and 28 display HVOC groundwater concentrations in cross-sections A to A', B to B', C to C', and D to D', respectively.

According to a *Draft Remedial Investigation / Feasibility Study Rev. 1* for the Former Hertz property, conducted by HWA, and dated May 27, 2016 (HWA, 2016), monitoring well HZ-MW-19 previously contained concentrations of petroleum hydrocarbons gasoline and diesel in exceedance of MTCA Method A cleanup levels. These exceedances (in March and September of 2014, respectively), which were

observed following soil remediation, eventually decreased to concentrations well below MTCA Method A cleanup levels by January of 2014 through January 2015. **Groundwater compliance monitoring for HVOCs will include wells installed on the former Schucks property.**

Shallow Groundwater

Shallow groundwater PCE concentrations up to 130,000 µg/L were detected near the center of the plume at MW-30, just south of the former dry cleaning operation on the BSCA property. A PCE concentration of 150 µg/L was detected in S-MW-1, on the former Wexler/Schucks property in September 2016, east-northeast of the source area. This represents the furthest Shallow depth exceedance of MTCA Method A cleanup levels to the east-southeast of the BSCA property. A PCE concentration of 25,000 µg/L was detected in MW-40, just north of the intersection of 98th Avenue NE and the vacated SR522 roadway, to the south of the source area. This suggests a preferential pathway of groundwater flow to the south along 98th Avenue NE. Groundwater samples collected from HZ-MW-31 and HZ-MW-32 in November 2016, located to the south of MW-40, did not result in detectable concentrations of PCE above the laboratory reporting limit. See Figure 22 for the 2016 groundwater analytical data and horizontal extent of Shallow zone groundwater in exceedance of MTCA Method A cleanup levels.

Intermediate Groundwater

Intermediate depth groundwater PCE concentrations up to 3,300 µg/L were detected in the center of the plume, east-southeast of the former dry cleaning operation on the BSCA property. A PCE concentration of 85 µg/L was detected at HZ-MW-29, on the former Hertz property. Thi

s represents the furthest Intermediate depth exceedance of MTCA Method A cleanup levels to the east-southeast of the BSCA property. PCE concentrations were not detected above the laboratory reporting limit at HZ-MW-33, located to the southeast of HZ-MW-29. See Figure 23 for the 2016 groundwater analytical data and horizontal extent of Intermediate zone groundwater in exceedance of MTCA Method A cleanup levels.

Deep Groundwater

Deep groundwater PCE concentrations are generally less than Shallow and Intermediate zones, with the exception of MW-9 (near the former dry cleaning machine), which reported a PCE concentration up to 53,000 µg/L in September 2016. This was the same well where PCE recovered as dense non-aqueous phase liquid (DNAPL) was removed by Farallon between 2005 and 2007. Generally, Deep groundwater PCE concentrations on the BSCA property range between 1,200 µg/L (MW-32) and 0.34 µg/L (MW-33). A PCE concentration of 95 µg/L was detected in MW-39, just north of the intersection of 98th Avenue NE

and the vacated SR522 roadway, to the south of the source area. Groundwater samples collected from HZ-MW-30, to the south of MW-39, did not report any detectable concentrations of PCE above the laboratory reporting limit. See Figure 24 for the 2016 groundwater analytical data and horizontal extent of Deep zone groundwater in exceedance of MTCA Method A cleanup levels.

General Trends

In the Shallow and Intermediate zones, the central portion of the plume (vicinity of MW-6, MW-8, and MW-11) has lower HVOC concentrations, likely due to prior in-situ bioremediation injections at MW-6. This is displayed prominently in Figures 25 and 26. PCE contaminated groundwater generally increases in depth through the Intermediate zone as the plume migrates laterally to the south, southeast, and east-southeast. PCE impacts to Deep groundwater appear limited to beneath the source area and migrating laterally across the BSCA property to the south and southeast, beneath 98th Avenue NE and the vacated portion of State Route 522, respectively.

Per the MTCA, RIs must include evaluation of vapor intrusion (VI) impacts to indoor air quality when volatile hazardous substances are present in the subsurface. The Ecology *Guidance for Evaluating Soil Vapor Intrusion in Washington State* (Ecology, 2009) provides a process for evaluating the VI pathway during an RI/FS (WAC 173-340-350) and subsurface media cleanup levels protective of indoor air quality. This process applies to buildings currently on a site, or future buildings, i.e., cleanup standards and actions must be protective of current and potential future site uses.

The guidance employs a tiered approach, starting with a preliminary assessment, and moving to Tier I and II assessments, if warranted. Initial screening steps in the preliminary assessment include the following:

- Are chemicals of sufficient volatility and toxicity known or reasonably suspected to be present?
- Are occupied buildings present (or could they be constructed in the future) above or near site contamination?

For this Site, both criterion are met. Future buildings in impacted areas will include vapor mitigation measures (e.g., vapor barriers and passive venting systems, or other vapor mitigation measures). No soil vapor measurements were collected for this RI since the Site is vacant, and the selected remedial action will be designed to remediate site vadose zone soils and groundwater and discussed in the draft Cleanup Action Plan. Direct mitigation through vapor barriers and passive venting systems will address vapor intrusion risks for future buildings on the site. Soil vapor sampling will be conducted following completion of the Site remedial action and compared to soil vapor screening levels in effect at that time.

5.0 PRELIMINARY CONCEPTUAL SITE MODEL

5.1 Conceptual Site Model

The Conceptual Site Model (CSM) for the Site identifies the primary contaminant sources, release mechanisms, transport mechanisms, secondary contaminant sources, potential pathways, and exposure routes. Existing chemical data, site characterization data, and identification of potential human and ecological receptors were used to develop the model, presented in Figure 29. The CSM is discussed further below.

5.1.1 Primary Sources of Contamination and Release Mechanisms

The primary source of current contamination on the Site is from releases of an historic dry cleaning operation on the BSCA property. The COCs in soil and groundwater are PCE, TCE, Cis-1,2 DCE and VC.

5.1.2 Secondary Sources and Release Mechanisms

When a released contaminant is retained in an environmental medium, such as soil or groundwater, the medium functions as a secondary source for further chemical release and distribution. Secondary release mechanisms for COCs present at the Site include leaching from soils to groundwater and mobilization of contaminated groundwater, as well as volatilization from soil and groundwater to air.

The degree of leaching and degree of mobilization is controlled by the physical properties of the aquifer (including the groundwater gradient and hydraulic conductivity), chemical properties of the groundwater, properties of the soil, and the geochemical interactions (such as solubility) between the groundwater and the various contaminants. Volatilization is controlled by the concentration and chemical properties of the contaminant and the physical properties of the soil and groundwater.

5.1.3 Pathways and Potential Receptors

An exposure pathway is a mechanism by which receptors are assumed to contact Contaminants of Potential Concern (COPCs). The U.S. Environmental Protection Agency (EPA, 1989) describes a complete exposure pathway in terms of four components:

- A source and mechanism of chemical release (e.g., a release of COPCs to the subsurface)
- A retention or transport medium (e.g., groundwater)

- A receptor at a point of potential exposure to a contaminated medium (e.g., commercial worker in an on-site building located above the groundwater plume)
- An exposure route at the exposure point (e.g., inhalation of vapors)

If any of these four components is not present, then a potential exposure pathway is considered incomplete and is not evaluated further in a risk assessment. If all four components are present, a pathway is considered complete.

Potential exposure routes for human and ecological receptors may include the following:

- **Dermal/Direct Contact:** Exposure to chemicals in soil may occur through direct contact with soil and groundwater. Direct contact is a potential exposure route for current and future on-site workers, potential future residents, or visitors. Burrowing or ground-dwelling mammals and invertebrates may be exposed directly to the soil and groundwater contaminants;
- **Inhalation:** Particulates from soil can be transported by air and inhaled by potential on-site and off-site receptors. Additionally, emissions of volatile chemicals from within the contaminated media may be transmitted into the air, where terrestrial biota may be exposed. Burrowing animals (e.g., moles) may also be exposed to particulates and vapors in underground stagnant air while spending time within the burrow;
- **Ingestion:** Ingestion of chemicals in Site soil is a primary exposure route for human and ecological receptors. Uptake by plants is also a potential exposure route.

Potentially complete exposure pathways include the following (shown in Figure 29):

- **Current/future construction/utility worker:**
 - Incidental soil ingestion;
 - Dermal contact with soil and/or groundwater, including in a trench or excavation;
 - Inhalation of particulates and/or vapors from the groundwater and subsurface soil;
 - Inhalation of particulates and/or vapors or dermal contact with soil and/or groundwater in a trench or excavation.
- **Current/future Occupant or Site visitor including parking lot users (adult and child):**
 - Incidental soil ingestion;
 - Dermal contact with soil;
 - Inhalation of particulates and/or vapors from the groundwater and/or soil.

- **Ecological receptors:**

- Incidental soil and groundwater ingestion;
- Inhalation of particulates and/or vapor from the soil in outdoor air or in a burrow;
- Dermal contact with soil and groundwater in a burrow.

5.2 Assessment of Risk

5.2.1 Human Health Baseline Risk Assessment

Exposure to identified COCs could occur via exposure pathways previously discussed. Based on the nature and the extent of contamination, the likely greatest potential risk to human receptors is dermal contact of soil and/or groundwater to construction workers during soil-disturbing activities. The second most likely exposure risk is inhalation of vapors during soil-disturbing activities or by commercial workers.

These risks can be mitigated under a cleanup action that either removes the contaminants to levels that are protective to receptors or that places institutional or engineering controls to prevent exposure. Risk mitigation is a primary factor used in evaluating cleanup action alternatives under the Feasibility Study.

5.2.1.1 Exposure Pathways

Soil remediation and source control are expected to decrease the potential exposure to contaminated soil and groundwater. Personnel performing remediation activities are at an increased risk of contaminated soil and groundwater exposure. All appropriate regulations and guidelines should be followed during cleanup.

Reported concentrations in groundwater collected on the Site exceeded various MTCA Method A Cleanup Levels. However, a review of Ecology's online database of well logs indicated no drinking water wells located potentially cross-gradient or down-gradient within approximately one-half mile of the Site.

Potential vapor intrusion, associated with future development, will be mitigated by the installation of vapor barriers and passive venting systems, or other vapor intrusion mitigation methods. Soil gas sampling will be conducted following completion of the Site remedial action and compared to soil gas screening levels at that time.

5.2.2 Ecological Baseline Risk Assessment

Based on the nature and extent of contamination, the likely greatest potential risk to ecological receptors include incidental soil ingestion and dermal contact, as well as ingestion and direct contact with groundwater. Based on the exposure pathways analysis, the land use on the Site and the surrounding area make wildlife exposure unlikely.

5.2.2.1 Ecological Risk

Since a release of a hazardous substance was discovered in soil, the MTCA Cleanup Regulations under WAC 173-340-7490 require that the Site be screened to determine if a Terrestrial Ecological Evaluation (TEE) needs to be completed, since a release of hazardous substances to soil may pose a threat to the terrestrial environment. The regulation requires that one of the following actions be taken:

- Document an exclusion (WAC 173-340-7491);
- Conduct a Simplified TEE (WAC 173-340-7492); or
- Conduct a Site-Specific TEE (WAC 173-340-7493).

According to WAC 173-340-7492(2)(a)(ii), the land use of the Site and surroundings qualify for evaluation using MTCA Table 729-1. According to this worksheet, the TEE process may be ended (see Attachment D). Although there are currently partially unknown lateral extents, surrounding properties have similar commercial / industrial development. Therefore, no further consideration of ecological impacts is required under MTCA.

5.3 Applicable or Relevant and Appropriate Requirements

Cleanup actions under MTCA (WAC 173-340-710) require the identification of all Applicable or Relevant and Appropriate Requirements (ARARs). These requirements are defined as:

“Applicable” requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a site.

“Relevant and appropriate” requirements means those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that, while not “applicable” to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a site, address problems or situations sufficiently similar to those encountered at the site that their use is well suited to the particular site.

Potential ARARs were identified for each medium of potential concern. The primary ARARs relating to the cleanup action include:

- MTCA, Chapter 70.105D of the Revised Code of Washington (RCW);
- Cleanup Regulations, WAC 173-340; and

- Dangerous Waste Regulations, WAC 173-303; and
- State Environmental Policy Act (SEPA) Checklist [RCW 43.21C.030(2)(a) and (2)(b)].

These primary ARARs are anticipated to be the most applicable to the cleanup action because they provide the framework for the cleanup action, including applicable and relevant regulatory guidelines, cleanup standards, waste disposal criteria, references for additional ARARs, and standards for documentation of the cleanup action.

Other applicable ARARs and guidance documents for cleanup of the Site may include:

- Occupational Safety and Health Act, Part 1910 of Title 29 of the Code of Federal Regulations;
- Safety Standards for Construction Work, WAC 296-155;
- Solid Waste Management, Reduction and Recycling, RCW 70.95;
- Minimum Functional Standards for Solid Waste Handling, WAC 173-304;
- Criteria for Municipal Solid Waste Landfills, WAC 173-351; and
- Accreditation of Environmental Laboratories, WAC 173-50.

5.3.1 Cleanup Criteria

Based on the findings detailed in the Remedial Investigation (Section 2.0), the selected cleanup levels for impacted media are discussed below.

5.3.1.1 Soil Cleanup Levels

The selected cleanup levels for the identified Constituents of Concern in soil are as follows:

- MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses (WAC 173-340-900, Table 740-1), and MTCA Method B Direct Contact values:
 - PCE 0.05 mg/kg
 - TCE 0.03 mg/kg
 - Cis-1,2 DCE 160 mg/kg (MTCA Method B)
 - VC 175 mg/kg (MTCA Method B)

5.3.1.2 Groundwater Cleanup Levels

- MTCA Method A Cleanup Levels for Groundwater (WAC 173-340-900, Table 720-1), and MTCA Method B Noncancer:

- PCE 5 ug/L
- TCE 5 ug/L
- Cis-1,2 DCE 16 ug/L (MTCA Method B)
- VC 0.2 ug/L

Groundwater screening levels for vapor intrusion were reviewed to compare the screening levels to the groundwater cleanup levels. The PCE groundwater screening level for vapor intrusion is 22.9 ug/L, TCE is 1.55 ug/L and VC is 0.347 ug/L. The groundwater cleanup levels are lower than the groundwater screening levels, except for TCE. Meeting groundwater cleanup levels for PCE and VC will be protective of vapor intrusion. Mitigation of vapor intrusion by installation of a vapor barrier, and other vapor mitigation alternatives, will also provide protection of TCE in indoor air.

5.3.2 Screening Levels for Vapor Intrusion

Screening levels provided in the *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*, Review Draft, Revised February 2016, Ecology recognizes the assumed attenuation factors utilized to calculate the groundwater and soil gas screening levels are conservative under most circumstances. For example, the degree of attenuation between groundwater or deep soil gas and indoor air for certain petroleum hydrocarbons is likely at many sites to be considerably more than what is assumed here. These compounds often biodegrade in the vadose zone, leading to sub-slab concentrations lower than what would be predicted solely from diffusion-based vertical concentration profiles.

5.3.3 Point of Compliance

The points of compliance are the locations at which cleanup levels for the Contaminants of Concern (COCs) must be attained to meet the requirements of MTCA and support issuance of an NFA determination for the Site. In accordance with WAC 173-340-740(6), the point of compliance for soil is all soil to 15 feet bgs within the boundaries of the Site. In accordance with WAC 173-340-720(8), the point of compliance for groundwater is all groundwater within the boundaries of the Site.

6.0 FEASIBILITY STUDY (FS)

6.1 Screening of Remedial Technologies and Alternatives

This Feasibility Study (FS) is completed following the MTCA regulation WAC 173-340-350(8). The purpose of a Feasibility Study is to develop and evaluate cleanup action alternatives to enable a cleanup action to be selected for a site.

Under MTCA, the development of a cleanup plan requires that technologies capable of meeting cleanup objectives are screened and then assembled into a list of remedial alternatives. These alternatives are then evaluated, compared, and preferred alternatives identified.

This section includes review of available cleanup technologies, initial screening of the technologies, and selection of technologies to be further evaluated. The initial screening of preliminary remedial alternatives is based on technical feasibility, i.e., available site data and knowledge of design parameters for potential treatment technologies. The selected cleanup technologies are then screened for overall effectiveness, implementability, and relative cost to identify a short-list of potentially applicable technologies, that are then assembled into cleanup alternatives.

The initial technologies screened for the Site include:

- Source Soil Excavation/Bioremediation
- Electrical Resistance Heating/Bioremediation with Ground Water Recirculation
- Air sparging/Soil vapor extraction
- Excavation to Glacial Till/Monitored Natural attenuation

Section 6.2 describes each of the technologies evaluated during screening, including information on the technology effectiveness, implementability, and cost. Technologies retained to be carried forward in development of remedial alternatives are summarized in Section 7.

MTCA regulations place a preference on the use of permanent cleanup methods such as removal, disposal, or treatment relative to those that manage contaminants in place using institutional controls, natural attenuation and/or containment. The discussion of the benefits and disadvantages of each candidate technology is described but not weighted in this section. The MTCA preferences for selection of remedy are reflected in regulatory evaluation criteria which will be described and applied in the Draft Cleanup Action Plan.

6.2 Remediation Alternatives

Remediation alternatives are developed from treatment technologies, to meet the goals of the cleanup in accordance with MTCA requirements and guidelines. The process of developing remediation alternatives begins with a broad overview of all types of treatment technologies. A comprehensive list of technologies relevant to the Site was developed using professional knowledge and judgment, experience, and screening information prepared by EPA for use across the United States (USEPA, 2007).

The list of treatment technologies was given a cursory screening to eliminate any technologies that do not apply to the observed contamination and/or Site-specific conditions. The following applicable treatment technologies were considered for use in development of remediation alternatives:

- Excavation and Off-site Disposal
- Bioremediation
- Electrical Resistance Heating
- Air Sparging and Soil Vapor Extraction
- Soil Excavation to Glacial Till
- Monitored Natural Attenuation (MNA)

These six treatment technologies have been combined and incorporated into the four remediation alternatives which are considered for evaluation in this FS. For all four remediation alternatives, potential vapor intrusion, associated with future development, will be mitigated by the installation of vapor barriers, or other vapor intrusion mitigation methods.

Remediation alternatives are presented below.

6.2.1 Alternative 1 Limited Source Soil Excavation and Bioremediation

Excavation and off-site disposal of contaminated soils is a common remedial approach for source removal. Excavation would remove the source of contamination and is typically followed by various off-site soil treatment and/or disposal alternatives. It should be noted that the BSC building has been demolished, and the concrete foundation and asphalt paving surrounding the building and parking lot are in-place. The proposed excavation area for Alternative 1, which is the contaminant source area, is shown in Figure 30. Prior to excavation, a geotechnical soldier pile wall, or similar, will be installed on the BSCA property along the eastern sidewalk of 98th Avenue NE to provide structural support on the western and

northern side of the excavation. Excavation to the south and east can be completed using a 1:1 excavation slope. The concrete foundation within the excavation area will be removed and soil excavated to fifteen (15) feet bgs. For the source area soil removal meant to achieve compliance based on exposure via direct contact, this excavation depth is consistent with WAC 173-340-740 (6)(d); however, source soil extends deeper than 15 feet because soil contamination is documented down to 55 feet. Clean, compacted imported fill material will replace the excavated contaminated soil. Based on the analytical results, some of the soil in the excavation area is above Dangerous Waste Criteria (14 ppm) and designates as hazardous waste. PCE and TCE are listed dangerous wastes under the state Dangerous Waste regulations (WAC 173-303). Soils with any detectable concentrations of these listed wastes require special handling and disposal when excavated. If PCE and TCE concentrations are less than RCRA land disposal restrictions, and less than Method B direct contact levels, Ecology may issue a "Contained In" determination, allowing disposal of the soils at a Subtitle D landfill. Soils with higher concentrations will designate as Dangerous Wastes and must be sent to a Subtitle C facility for treatment, stabilization, and/or disposal.

Following source soil removal activity, an array of groundwater injection wells at varying depths from 10 feet to 55 feet bgs, will be installed on the BSCA property. Figure 30 shows a preliminary design of the location of the injection wells. Actual locations and injection well depths will be determined in the Cleanup Action Plan, if this alternative is selected as the Preferred Alternative. The injection network would be designed to address the entire plume if this alternative was selected.

A emulsified oil product, EOS[®], which is an emulsion of lactate, soybean oil and nutrients that stimulates the growth of anaerobic bacteria to treat the groundwater plume through reductive dechlorination, will be injected into the groundwater. EOS[®] will be injected into wells at the source area and in downgradient wells. During bacterial respiration, electrons from the EOS[®] are transferred to the chlorinated compounds via the bacteria, releasing chlorine ions and eventually degrading to ethane and hydrogen gas. The application of EOS[®] will result in concentrations of vinyl chloride increasing in the groundwater at the site. This occurred after the application of EOS[®] that was applied to the groundwater by Farallon in 2007 (Farallon, 2008b).

Emulsified oil essentially behaves like a dilute milk solution during injection, allowing the normally immiscible oil to be transported with water. Implementation is possible through wells and coverage can be very complete.

Within two to six months after injection, the emulsion "breaks" due to bacterial action, and the oil droplets adhere to the soil particles, leaving a barrier of electron donor in place. The oil droplets then dissolve slowly into ground water at a rate that is compatible with maintaining anaerobic conditions and supplying

electrons to the microorganisms. The duration of release will in part be dependent on the initial oil concentration injected. Emulsified oil has been used at hundreds of locations and donor release has been observed to last for many years after injection (AFCEE 2007).

The emulsified oil will initially drift down gradient with ground water flow, creating a fairly long barrier or treatment zone (in the direction of flow).

Injection protocol for each location will include the following elements:

- Inject small volume of anaerobic water (50 -100 gallons) with oil
- Inject bioaugmentation culture (approximately 20 liters/well and 4 liters/DP point)
- Inject emulsified oil with micro ZVI in anaerobic water
- Short water flush, no donor solution

The first step must be repeated each day when there will be an injection the following day. The final two steps will be repeated each day until the desired volume is achieved. The water flush after each injection is to minimize fouling of the well screen, sand pack and nearby formation.

Injection quantities will be determined after initial injection and tracer testing to measure and estimate injection flow rates, pressures, reagent travel times and distances. This testing will occur in several selected wells.

The tracer testing will be conducted by monitoring ground water field parameters (specific conductivity, ORP, DO, etc.) in selected monitoring wells nearest to selected injection wells, using either 1) datalogging probes/pressure transducers, or 2) manually collected field measurements at regular (e.g., semi daily) intervals during injection, and for a day or two after if necessary.

A higher percentage of emulsified oil will be injected into the source area wells. This is due to the higher contaminant concentrations that will require longer treatment, and because it is the most up gradient area, and will receive a continuous influx of electron acceptors (i.e., oxygen). Electron acceptors will decrease along the flow path after the injections.

The in-situ reductive dechlorination process results in removal of chlorine atoms within the solvent molecules one at a time, i.e., each PCE molecule is reduced to TCE, which is then reduced to cis-1,2-DCE, which is reduced to VC, which is reduced to ethene. Removal of chlorine atoms in PCE and its breakdown products may occur concurrently (although not necessarily at the same rates) such that short term increases in concentrations of TCE, 1,2-DCE and VC are likely (and typically observed), until the process is completed. The estimated timeframe for Alternative 1 is 10 years.

The advantages of Alternative 1 - Source Soil Excavation and Bioremediation include:

- Contaminants to 15 feet bgs are permanently removed from the source area through excavation
- Less site disruption than mass excavation methods throughout the site
- Contaminants can break down into harmless by-products using emulsified oil

The disadvantages of Alternative 1 - Source Soil Excavation and Bioremediation include:

- Off-site transport for treatment or disposal of HVOC contaminated soils characterized as both dangerous and hazardous waste
- Requires importing and compacting clean import backfill to replace removed soils
- Additional soil source remains at depth, which would continue to release HVOCs into groundwater
- Disruptive activity with significant noise and potential dust
- Injection of materials may cause plugging of wells and/or the aquifer by chemical precipitation or biofouling
- PCE breaks down via reductive dechlorination into TCE, DCE, and vinyl chloride. Complete breakdown into ethenes throughout the plume is likely not achievable throughout the Site.

6.2.2 Alternative 2 - Electrical Resistance Heating (ERH) Bioremediation and Recirculation

Electrical resistance heating (ERH) involves heating the soil and ground water using electrodes installed in wells in the source area, and connected to a source of electricity, resulting in heating of the subsurface soil and groundwater. The subsurface is heated to a range of 80 degrees Centigrade (C) to 100 degrees C, which then volatilizes the contaminants into the unsaturated zone where they are removed by soil vapor extraction.

Installation of the ERH system includes drilling boreholes, installing electrodes and soil vapor extraction screens in each borehole, and staging and connecting operating equipment (power control unit, transformer, power cables, vapor recovery lines, activated carbon, steam condenser, blower, and cooling tower). The boreholes are drilled in a triangular grid pattern (typically 15-foot spacing) that is located to optimize electrical and thermal distribution in the subsurface. The backfill around the electrode/vapor screen consists of a conducting material such as a sand and graphite or sand and steel shot mix. The electrodes are in electrical contact with the soil matrix throughout the target soil zone. The vapor extraction screen would be positioned

over the target interval in the unsaturated zone, between approximately 6 feet bgs and 1 foot bgs. Figure 31 depicts the preliminary design of Alternative 2.

Once the electrode and vapor recovery system is constructed, including connection of all electrical and vapor lines at the surface, then the system would undergo functional testing, including grounding requirements. After testing is successfully completed, the system would be turned on. Electrical power is supplied continuously to the electrodes to heat up the subsurface. Heating the soil to the target temperature of 80°C to 100°C usually takes approximately 1 month. After the target temperature is achieved, it would be maintained for a period of 4 to 5 months to complete the thermal treatment. During the entire heating period, the vapor extraction system would be operating, and will not interfere with the ERH system. As the soil is heated, contaminant vapor flow in the recovery system would progressively increase as the volatility of the contaminants increases. When the soil temperatures get close to the target, a significant amount of water would start to vaporize, which creates a steam-stripping effect for the volatiles. This steam is subsequently condensed in the steam condenser. Because of the heat and the steam-stripping effect, the removal of volatile contaminants from low-permeability silty soils is much more effective than standard air sparging and soil vapor extraction.

The progress of treatment with ERH is monitored through soil temperature monitoring of the subsurface, periodic collection and analysis of extracted vapors, and soil sampling for treatment confirmation. Thermocouples located at 5-foot intervals spanning the vertical target treatment zone would be used to track the subsurface soil temperature profile as it approaches and attains the target temperature. Air samples collected weekly from the vapor recovery line, after the condenser and before the activated carbon treatment, would be used along with vapor recovery stream flow-rate readings, to track the total amount of volatile contaminants removed from the subsurface as thermal treatment progresses. The soil samples, typically collected at 60, 90, and 100 percent of the thermal treatment cycle, would be used to verify the extent of contaminant removal indicated by the air sampling results.

Concurrently, an array of approximately 6 Shallow, 6 Intermediate, and 4 Deep 4-inch diameter groundwater extraction wells, will be installed to remove contaminated groundwater at the perimeter of the groundwater contaminant plume. The extraction wells will also provide hydraulic control of the contaminant plume. The extracted groundwater will be treated with activated carbon, amended with a bioremediation product, Carbstrate®, a nutrient-amended electron donor substrate, and then re-injected into the aquifer through horizontal wells, to stimulate anaerobic bioremediation of PCE and its' breakdown products.

Vertical injection wells will most likely be utilized, and will be installed in the Shallow portion of the aquifer, at locations throughout the Site (Figure 31). As a contingency, based on the results of the ERH, up to 4

subsurface horizontal injection wells, each approximately 100 to 150 feet long, may be installed perpendicular to the plume within the Shallow portion of the aquifer. If deemed necessary, the horizontal wells will be drilled to approximately 10 feet bgs, avoiding underground utilities associated with site development and underground public utilities. Vertical injection wells will also be placed in the Intermediate and Deep portions of the aquifer (Figure 31). Reinjection method and rate would be performed in accordance with injection permit criteria and hydraulic parameters for the aquifer collected from the pump test.

Placement and flow rates of the extraction wells would need to be established via aquifer testing, ground water flow modeling, and pumping/pilot tests, to establish ground water capture areas and flow rates. Injection and extraction wells would need to be placed at different depths, and over a large area to cover the entire plume. Injection wells would be installed with a rotosonic drill rig to reduce smearing of fine grained material if possible. This will reduce the chance of the injection wells being biofouled.

Extracted ground water will be amended with Carbstrate as the soluble donor, pH adjusted if necessary, and injected at proportionately into each injection well. Operation and maintenance would be moderately involved, and involve weekly visits to monitor flow rates, pump operation, and chemical mixing. The estimated restoration timeframe for Alternative 2 is 5 to 6 years.

The advantages of Alternative 2 - Electrical Resistance Heating (ERH) Bioremediation and Recirculation include:

- Rapid time frame compared to other in situ methods
- Less site disruption than mass excavation methods
- Contaminants break down into harmless by-products
- Finer grained soils which are hard to treat by other in situ methods, are heated more due to greater soil resistance
- Contaminants are removed from the source area
- Permeable soils at the site and the volatile COCs are amenable to ERH.
- Maintains ground water balance and pre-existing gradient
- Eliminates need for other discharge options (e.g., storm drain, sanitary sewer)
- The main advantages of ground water recirculation are increased flushing through contaminated soils, due to higher ground water velocities, more mixing, dispersion, and mass transfer, all of which promote higher contaminant degradation rates.
- Higher efficacy than in situ methods solely relying on injections, due to:

- i) electron donor delivery throughout the plume is more uniform and can be addressed with fewer wells than a passive configuration in which electron donors such as edible oils are directly injected into the aquifer at many locations;
- ii) Active pumping will induce higher hydraulic gradients, resulting in increased ground water velocities and improved mixing and mass transfer, which will increase the degradation rates in comparison to ambient conditions;
- iii) Monitoring is facilitated because the impact of heterogeneity is reduced. Monitoring at the extraction wells can be used to monitor system performance;
- iv) Transport and dispersion of added microorganisms throughout the treatment area is enhanced;
- v) Biomass produced within the aquitard from lactate metabolism will serve as an electron donor as it decays potentially allowing the interval between injections to be increased over time;
- vi) Excessive production of sulfides and methane gas can be minimized by optimizing the amount of electron donor added to degrade the TCE;
- vii) Plume containment, preventing further migration of original plume or possible daughter product plumes.

The disadvantages of Alternative 2 - Electrical Resistance Heating (ERH) Bioremediation and Recirculation

- A need for active ground water extraction/injection system which requires ongoing maintenance;
- Aboveground equipment including groundwater extraction wells with pumps, underground piping from the extraction wells to a fenced enclosure with storage/mixing tanks, underground piping from the tanks to injection wells, tankage for injection chemicals, electric and pump controls, meters, freeze protection/heaters, alarms/auto dialers, sampling ports, could result in unexpected Operation and Maintenance impacts
- Biofouling and clogging can be common problems with these type of systems that require frequent attention.
- Applied in source areas, not suitable for entire plume
- Injection of materials may cause plugging of wells and/or the aquifer by chemical precipitation or biofouling
- PCE breaks down via reductive dechlorination into TCE, DCE, and vinyl chloride. Complete breakdown into harmless ethenes may not be achievable

6.2.3 Alternative 3 - Air Sparging and Soil Vapor Extraction (AS/SVE)

Air sparging involves introducing compressed air into the groundwater. The introduction of air below the groundwater table enhances volatilization of contaminants dissolved in groundwater and sorbed onto saturated soils. Volatilized contaminants are then recovered via vapor extraction of the overlying vadose zone. Low molecular weight, volatile compounds such as PCE, TCE, DCE and vinyl chloride are generally amenable to air sparging. Air sparging would be combined with soil vapor extraction to remove the contaminants. Soil vapor extraction is the process of removing contaminants from the soil in the vapor phase, usually by applying a vacuum to the subsurface. This is done through the use of a series of wells which are placed throughout the area of contamination and screened above the groundwater table. The wells are connected to an air blower, which draws a vacuum. With the reduced pressure, air begins to move through the subsurface drawing out the contaminant vapors. The withdrawn air will likely require treatment, depending on contaminant concentrations. Common processes for remediating this air include vapor phase carbon adsorption, catalytic converters, or thermal converters (oxidizers).

The vapors are run through a remediation system, and then discharged into the atmosphere under state and local permit requirements. This action is enhanced when the surface is covered by a cap of asphalt and/or concrete, minimizing the amount of ambient air drawn into the system.

Well spacings for an AS/SVE system are typically 15 feet for the subsurface conditions found at the Site. The systems are often pulsed (turned on and off) to minimize channeling of air and encourage mixing of ground water in the subsurface. Although permeable soils exist at the site, the presence of silt layers suggests a heterogeneous subsurface environment, which may not be amenable to AS/SVE. Furthermore, the depth of contamination to fifty-five (55) feet bgs is also a potential drawback since contamination at that depth may not reach the vadose (unsaturated) zone for SVE removal. Figure 32 depicts the preliminary design of Alternative 3.

Vapor extraction systems are most effective remediating contaminants having fairly high vapor pressures. Low molecular weight, volatile compounds such as PCE, TCE, DCE and vinyl chloride are generally amenable to vapor extraction.

Increased soil permeability facilitates vapor extraction. As the average permeability of the contaminated soil decreases the cost of vapor extraction system increases due to the need for more wells and larger blowers. Proper spacing of injection and extraction wells requires some preliminary site work to determine the soil air permeability. The estimated timeframe for Alternative 3 is 10 years.

Advantages of Alternative 3 - Air Sparging and Soil Vapor Extraction include:

- Lower capital costs

- Less site disruption than mass excavation methods
- Minimal site disruption
- Because the process involves the continuous flow of air through the soil, it often promotes in situ biodegradation of low volatility organic compounds

Disadvantages of Alternative 3 - Air Sparging and Soil Vapor Extraction include:

- Requires electricity and some land area for the wells and treatment system components.
- Requires significant pilot testing to establish design parameters (i.e., pressure, well spacings, SVE vacuum, discharge gas concentrations)
- Low injection radius of influence both horizontally and vertically
- Inability to access lower permeability zones in mixed (heterogeneous) subsurface conditions, i.e., air may preferentially flow through more permeable channels
- Potential upwelling of ground water and modification of existing gradients
- Performance monitoring may be biased, as air may preferentially flow into the monitoring well filter packs, potentially biasing the results
- Long restoration timeframe
- Site would need to be capped to maintain subsurface negative pressures
- Contaminants are not destroyed if no off-gas treatment is used
- Contaminated off-gas may require treatment
- Operation and maintenance requirements, long-term on-site equipment required
- Treatment times may be slower than other more aggressive remediation methods
- Inability to access lower permeability zones in mixed (heterogeneous) subsurface
- Depth of ground water contamination may not be amenable to treatment

6.2.4 Alternative 4 - Excavation to Depth of Glacial Till and Monitored Natural Attenuation (MNA)

Excavation would remove the source of contamination and is typically followed by various off-site treatment or disposal alternatives. The proposed excavation area, which is the contaminant source area down to its furthest vertical extent of 55 feet, is shown in Figure 33. Prior to excavation, a geotechnical

soldier pile wall, or similar, will be installed on the on the entire excavation boundary due to the depth of excavation.

The concrete foundation within the excavation area will be removed and soil excavated to fifty-five (55) feet bgs. Clean, compacted imported fill material will replace the excavated contaminated soil. Based on the analytical results, some of the soil in the excavation area is above MTCA Method B (14 ppm) and designates as hazardous waste. These soils will require more attention regarding the health and safety of workers, transportation and disposal requirements for hazardous materials.

Following source soil removal activity, monitored natural attenuation (MNA) would be implemented. MNA is the practice of allowing natural (physical, chemical and biological) processes in soil and ground water to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in those media. MNA requires first establishing that conditions are favorable for those processes, and monitoring to ensure they are occurring.

MNA processes include biodegradation, dispersion, dilution, adsorption, volatilization, and chemical or biological stabilization or destruction of contaminants. MNA is a viable approach where dissolved contaminant concentrations in ground water are low, potential receptors are not in danger of being affected, and natural attenuation of contaminants is known or likely.

Under MTCA (WAC 173-340-370) natural attenuation is considered appropriate at sites where:

- Source control has been conducted to the maximum extent practicable
- The remaining contaminants do not pose an unacceptable threat to human health or the environment
- There is evidence that natural processes are occurring at a reasonable rate
- Monitoring is conducted to ensure that the attenuation is occurring and human health and the environment are protected

HVOCs are generally suited to monitored natural attenuation, as they are amenable to biodegradation and volatilization under a wide range of subsurface conditions. However, due to the numerous previous remedial activities conducted at the Site, and the responding fluctuation of HVOC concentrations, the rate of MNA has been inconclusive. The estimated timeframe for Alternative 4 is 10 or more years.

Advantages of Alternative 4 - Excavation to Depth of Glacial Till and Monitored Natural Attenuation include:

- Low impact to site (for MNA)

- Low cost (for MNA)
- Permanent source removal (by excavation)

Disadvantages of Alternative 4 - Excavation to Depth of Glacial Till and Monitored Natural Attenuation include:

- High Cost (excavation and disposal)
- Extensive engineering requirements
- Long restoration time frame / ongoing monitoring particularly for HVOCs

Monitored natural attenuation is not identified as a potentially applicable primary cleanup method, but may be used after some period of time after successful source removal, if contaminant levels decrease to acceptable levels.

7.0 DETAILED EVALUATION AND SELECTION OF REMEDIATION ALTERNATIVES

This section evaluates the cleanup alternatives selected in the previous section in accordance with the selection of remedy requirements under MTCA (WAC 173-340 through 370). The proposed alternatives for the Site are:

- Alternative 1 – Limited Source Soil Excavation/Bioremediation
- Alternative 2 - Electrical Resistance Heating/Bioremediation with Ground Water Recirculation
- Alternative 3 - Air Sparging/Soil Vapor Extraction
- Alternative 4 - Excavation to Glacial Till/Monitored Natural Attenuation

7.1 MTCA Threshold Requirements

The FS considered the requirements under WAC 173-340-350 and the criteria defined in WAC 173-340-360 for the screening of potentially feasible cleanup alternatives for the Site. A cleanup alternative must satisfy the following threshold criteria as specified in WAC 173-340-360(2)(a):

- Protect human health and the environment
- Comply with cleanup standards
- Comply with applicable state and federal laws
- Provide for compliance monitoring
- Reasonable Restoration Time Frame

In addition to meeting the threshold criteria, cleanup actions under MTCA must meet the following additional requirements specified in WAC 173-340-360(2)(b):

- Use permanent solutions to the maximum extent practicable based on the criteria defined in WAC 173-340-360(3)(f); and
- Consider public concerns raised during public comment on the Cleanup Action Plan (WAC 173-340-600).

The factors used to evaluate the reasonableness of the restoration time frame per WAC 173-340-360(4)(b) include:

- Potential risks to human health and the environment posed by the Site;
- Practicability of achieving a shorter restoration time frame;

- Current use of the Site, surrounding areas, and associated resources that are or may be affected by releases from the Site;
- Availability of alternative water supplies;
- Likely effectiveness and reliability of institutional controls;
- Ability to control and monitor migration of hazardous substances from the Site;
- Toxicity of the hazardous substances at the Site; and
- Natural processes that reduce concentrations of hazardous substances and have been documented to occur at the Site or under similar Site conditions.

The criteria used to evaluate the degree of permanence to the maximum extent practicable per WAC 173-340-360(3)(f) include:

Protectiveness: This criterion considers overall protectiveness of human health and the environment, including the degree to which existing risks are reduced, the time required to reduce risk at the facility and attain cleanup standards, risks at the Site resulting from implementing the alternative, and improvement of overall environmental quality.

Permanence: Permanence addresses the degree to which the alternative permanently reduces the toxicity, mobility, or volume of hazardous substances, including the adequacy of the alternative in destroying the hazardous substances, the reduction or elimination of hazardous substance releases and sources of releases, the degree of irreversibility of the waste-treatment process, and the characteristics and quantity of treatment residuals generated.

Effectiveness over the long term: Long-term effectiveness includes the degree of certainty that the alternative will be successful, the reliability of the alternative during the period of time that hazardous substances are expected to remain on the Site at concentrations that exceed cleanup levels, and the magnitude of residual risk with the alternative in place. The following types of cleanup action components may be used as a guide, in descending order, when assessing the relative degree of long-term effectiveness: reuse or recycling; destruction or detoxification; immobilization or solidification; disposal on or off the Site in an engineered, lined, and monitored facility; isolation or containment with attendant engineering controls on the Site; and institutional controls and monitoring.

Management of short-term risks: This criterion pertains to the risk to human health and the environment associated with the alternative during construction and implementation, and the effectiveness of measures that will be taken to manage such risks. This criterion also includes risks to workers resulting from implementation of the cleanup alternative.

Technical and administrative implementability: Implementability includes consideration of whether the alternative is technically feasible, administrative and regulatory requirements, permitting, scheduling, size, complexity, monitoring requirements, access for construction operations and monitoring, and integration with business operations in nearby buildings.

Cost: This criterion addresses the cost to implement the alternative, including the cost of construction and anticipated long-term costs. Long-term costs include operation and maintenance, monitoring, and reporting costs.

Consideration of public concerns: This criterion considers whether the community has concerns regarding the alternative and, if so, the extent to which the alternative addresses those concerns. This process includes concerns from individuals, community groups, local governments, federal and state agencies, or any other organization that may have an interest in or knowledge of the Site.

The following sections evaluate the alternatives against the threshold criteria. Attachment E summarizes the cleanup alternatives evaluation, including the costs of the remediation alternatives.

7.1.1 Protect Human Health and the Environment

The two types of exposure risk associated with the presence of COCs are terrestrial ecological risk and human health risk. Because the Site qualifies for a TEE exclusion based on WAC 173-340-7491, mitigating the potential human health risk associated with exposure to COCs in indoor air, soil, and groundwater will be the primary objective of the cleanup action. Alternatives 1 through 3 satisfy the requirements for protection of human health and the environmental. Either source removal by excavation and disposal or ERH will remediate approximately 90% of the mass of PCE found on the site. Any potential exposure from residual PCE vapors will be addressed by vapor barriers or other soil vapor mitigation during redevelopment at the Site. Alternative 4 is considered a permanent remedy (excavation of the source area), however, per the Disproportionate Cost Analysis (included as Attachment E), the alternative is not considered feasible.

7.1.2 Comply with Cleanup Standards

Active remedial technologies presented in Alternatives 1 through 2 will achieve the cleanup standards in an estimated 10 years and 5 years, respectively. Alternative 1 and 2 include the active removal or treatment of the source area and both alternatives will further decrease PCE concentrations through bioremediation throughout the Site. Alternatives 1 and 2 address remediation of the deeper part of the aquifer to 55 feet bgs. Alternative 3, Air Sparging and Soil Vapor Extraction will not sufficiently decrease PCE concentrations at depth due to the presence of fine silt layers in the subsurface that would impede the flow of PCE vapor to the vadose zone and may not achieve cleanup levels. Alternative 4 will

remediate PCE contaminated soil in the source area, but reaching cleanup levels throughout the Site through MNA requires more than 10 years and may not achieve cleanup levels.

7.1.3 Comply with Applicable State and Federal Laws

Compliance with State and Federal Laws includes legally applicable, relevant and appropriate requirements (ARARs). ARARs for this site are summarized in Table 11. All alternative remedies meet ARARs for this Site.

7.1.4 Provide for Compliance Monitoring

Compliance monitoring requirements (specified in WAC 173-340-410) include the following elements:

- Protection monitoring to confirm that human health and the environment are adequately protected during implementation of an alternative.
- Performance monitoring to confirm that cleanup standards or other performance standards are met.
- Compliance monitoring to monitor the short and long-term effectiveness of the remedy after completion of the alternative and if protection is being achieved in accordance with cleanup objectives.

A Compliance Monitoring Plan (CMP) describing standard operating procedures and laboratory analytical methods will be provided with the Engineering Design Report. All of the remedial alternatives will include comprehensive compliance monitoring programs for this requirement. Long-term compliance monitoring will include testing for PCE and PCE degradation products.

7.1.5 Reasonable Restoration Time Frame

A reasonable restoration time frame is another requirement for evaluating alternatives. MTCA prefers alternatives that can be implemented in a shorter period of time while equivalent in other respects (e.g., permanence, implementation risks to the community, environment, cost). Restoration time frame is the time required to meet cleanup standards (i.e., to meet all cleanup levels in all media at all points of compliance). Under MTCA, nine factors are used to determine whether a cleanup action provides for a reasonable restoration time frame. The shortest restoration timeframe are Alternatives 1 and 2 due to the removal of PCE-contaminated soil through excavation or ERH and active bioremediation. Alternatives 3 and 4 will take longer due to the time needed to impact the deeper portion of the aquifer using air sparging and soil vapor extraction, and due to MNA.

7.2 MTCA Other Requirements

Other requirements specified in MTCA include:

- **Use permanent solutions to the maximum extent practicable** – The requirement to use permanent solutions to the maximum extent practicable includes a preference approach to evaluate alternatives and cost. Cleanup technologies in order of decreasing preference include reuse / recycling, destruction, detoxification, and separation / volume reduction. Under MTCA these preferences may be weighed using a “disproportionate cost analysis” (WAC 173-340-360(3)(e)) that evaluates disproportionate costs compared to benefits of the remedial action.
- **Consider public concerns** – MTCA specifies public notice and participation requirements for cleanups conducted by Ecology, conducted under an order or decree, where site-specific risk assessment is used to establish cleanup levels, or where cleanup would restrict future site use.

7.3 Evaluation of Alternatives

The alternatives carried forward for evaluation include:

- Limited Source Soil Excavation/Bioremediation
- Electrical Resistance Heating/Bioremediation with Ground Water Recirculation
- Air Sparging/Soil Vapor Extraction
- Excavation to Glacial Till/Monitored Natural Attenuation

Attachment E compares each of the remedial alternatives to the minimum requirements for remedial actions listed in WAC 173-340-360(2). The alternatives are evaluated under all of the requirements, including determining whether the action uses permanent solutions to the maximum extent practicable.

8.0 PREFERRED REMEDIAL ALTERNATIVE

This section presents proposed remedial actions to be conducted at the Site.

8.1 Description of Recommended Primary Remedial Alternative

Based on the results of the remedial investigation and feasibility study conducted under MTCA and the application of the selection of remedy criteria, the Preferred Alternative is Alternative 2, developed in accordance with WAC 173-340-350 through 173-340-390. Alternative 2 will be the primary alternative with secondary alternatives of limited soil excavation and disposal, and soil vapor extraction in the vadose zone. Limited soil excavation will remove near-surface PCE concentrations found along the former BSCA building sewer line, near sampling location KSB-10 at 1-foot bgs. Additionally, contingency-based focused excavations may be utilized if post-ERH soil confirmation sampling determines that residual HVOC impacted soils remain on the BSCA property. Use of engineering controls and institutional controls are included on a contingency basis and may be used after the remedial action has been completed. Potential vapor intrusion, associated with future development, will be mitigated by the installation of vapor barriers and passive venting systems, or other vapor intrusion mitigation methods as described in an environmental covenant.

The estimated cost of the Preferred Alternative is \$3,600,000.

See Figure 34 for a depiction of the preferred remedial alternative.

8.2 Rationale for Selecting Proposed Alternative

The proposed alternative was selected in accordance with remedy selection requirements under MTCA, and meet all threshold and other requirements specified in WAC 173-340-360.

8.3 Cleanup Standards

Determination of cleanup standards is detailed in Section 5.2, and included the following process, per MTCA:

- Evaluate beneficial use of land, ground water, and surface water
- Develop conceptual site model (i.e., contaminant source, affected media, exposure pathways, and receptors)
- Select COCs
- Select ARARs
- Choose cleanup levels

- Identify points of compliance

The cleanup standards are then based on the calculated cleanup levels measured at the points of compliance. Cleanup levels selected for the Site are based on MTCA Method A or B (where no A value exists). Points of compliance are as follows:

Soil

- Standard point of compliance (throughout the Site) based on protection of ground water.
- From the ground surface to 15 feet below ground surface based on direct contact exposure on the Site.

Groundwater

- For this Site, the standard groundwater point of compliance is proposed, i.e., groundwater throughout the Site.

8.4 Schedule for Implementation

Schedule for implementation will be detailed in the Cleanup Action Plan, and is anticipated to be in 2017. The relative order of cleanup elements is as follows:

- Design and Installation of ERH System and Bioremediation/Recirculation
- Installation of SVE system
- Limited soil excavation and contingency-based excavation (may occur at different times)
- Engineering controls – depends on building construction schedule
- Institutional controls, if necessary.

8.5 Applicable State and Federal Laws

All applicable state and federal laws, if any, for the proposed cleanup action will be followed. Regulatory compliance will be addressed during the permitting phase of the project, and may include grading, storm water, and other permitting issues.

8.6 Compliance With Threshold and Other MTCA Requirements

As stated in Section 8.1, the Preferred Alternative, including Alternative 2 and limited soil excavation and soil vapor extraction cleanup action, complies with threshold and other MTCA requirements specified in WAC 173-340-360.

9.0 SUMMARY & CONCLUSIONS

The Bothell Service Center Site previously contained a former dry cleaners which caused a release of PCE into the soil and groundwater some time prior to 2000. Remedial investigation activities have defined the nature and extent of soil and ground water impacts, which include PCE and its breakdown products TCE, DCE, and vinyl chloride.

Site cleanup levels for soil and ground water are selected as MTCA Method A or B for COCs with no established Method A value. Points of compliance are as follows:

- Soil
 - Standard point of compliance (throughout the Site) based on protection of ground water
 - From the ground surface to 15 feet below ground surface based on direct contact exposure
- Ground water
 - The standard ground water point of compliance is proposed, i.e., ground water throughout the Site

Based on the results of the remedial investigation and feasibility study conducted under MTCA and the application of the selection of remedy criteria, the preferred alternative, Alternative 2 at the Site (developed in accordance with WAC 173-340-350 through 173-340-390) is designed to remediate HVOC contamination only and includes:

- Design and Installation of ERH System and Bioremediation/Recirculation
- Installation of SVE system
- Limited soil excavation and contingency-based soil excavation
- Engineering controls – depends on building construction schedule
- Institutional controls, if necessary.

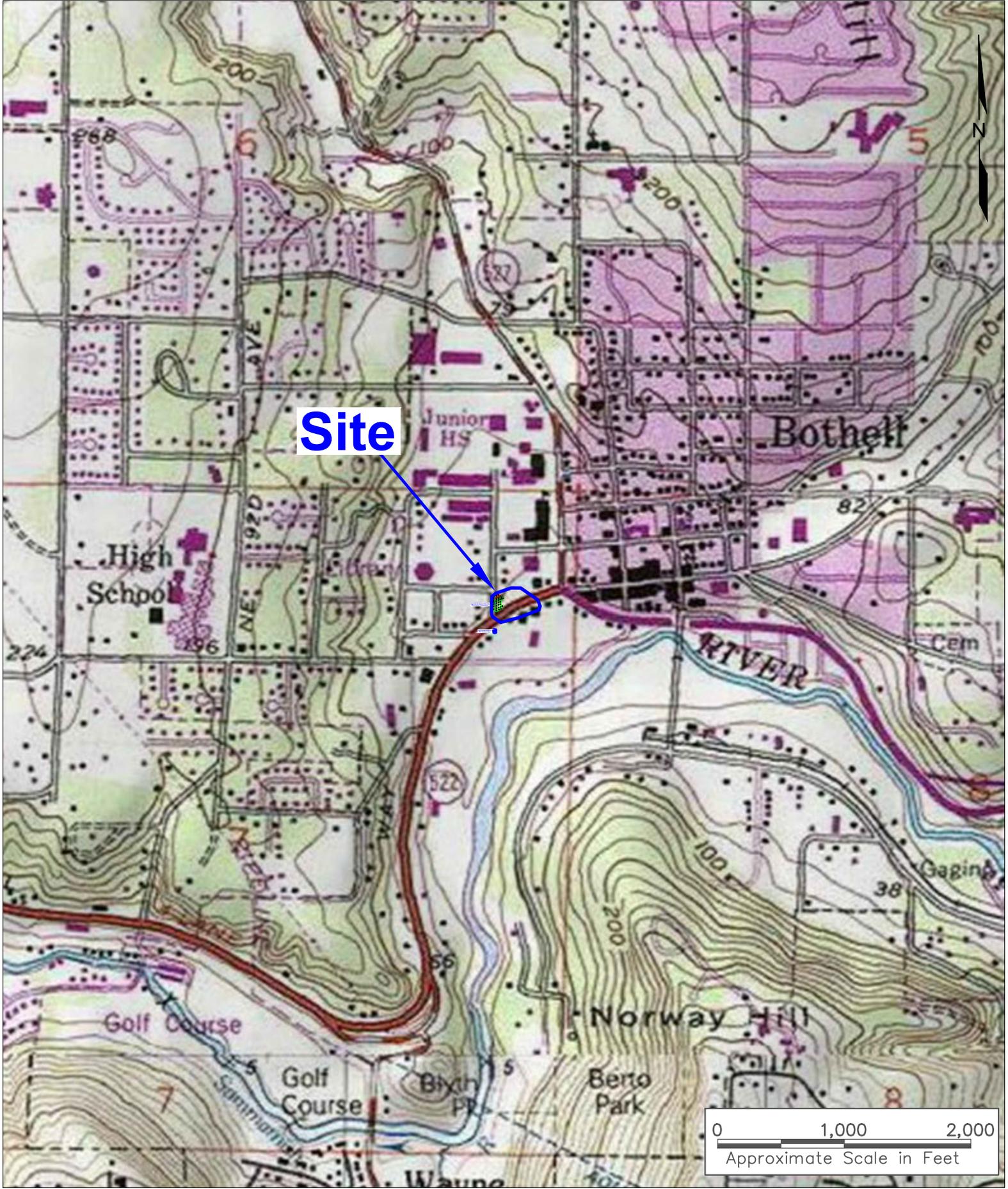
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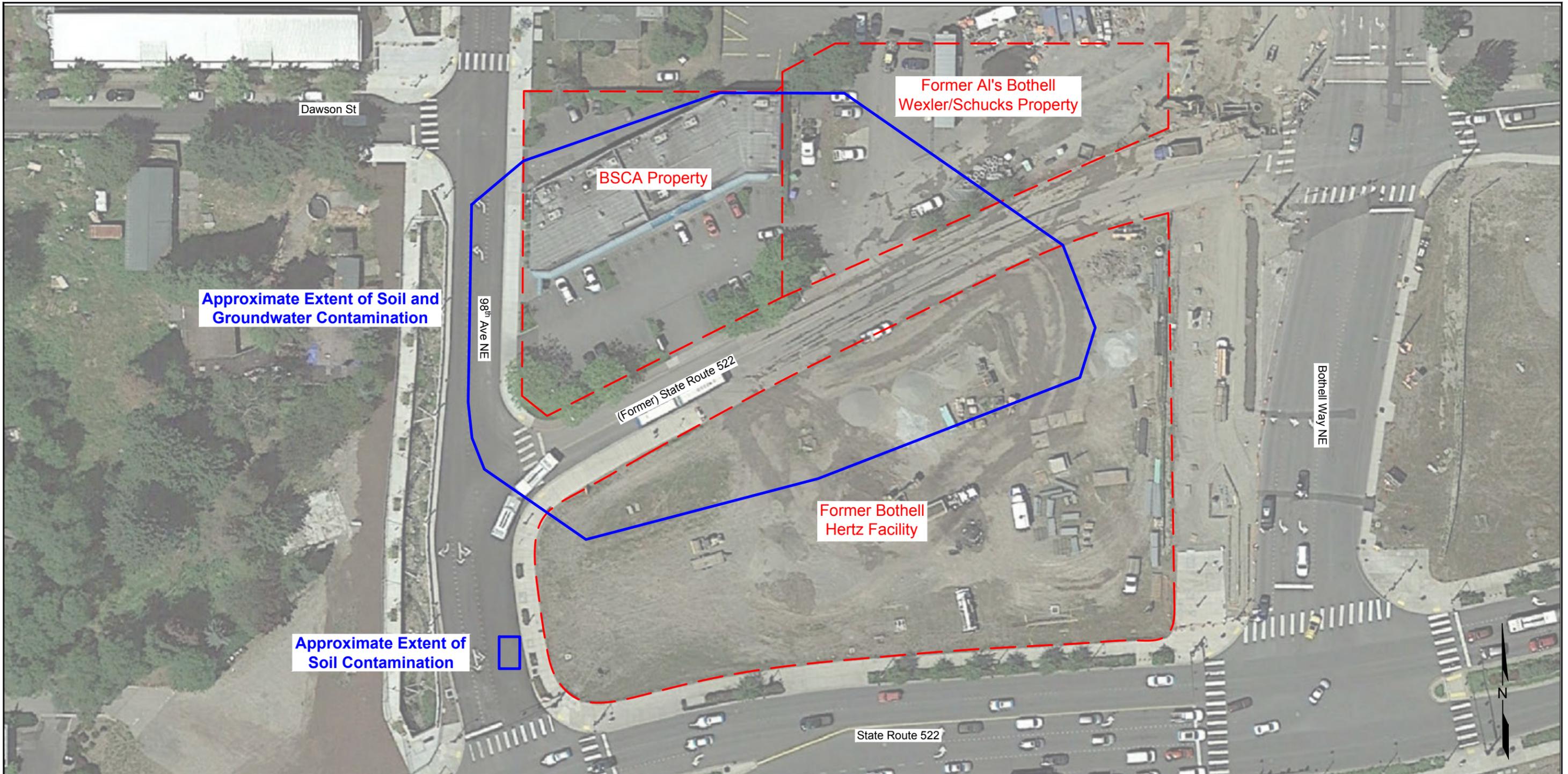
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Figures



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Bothell Service Center
18107 Bothell Way NE
Bothell, Washington

Figure 1
Vicinity Map



LEGEND

- Approximate Location of Site Boundary
- - - Various Property Boundaries

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016

0 60 120
Approximate Scale in Feet



LEGEND

- BSCA Property Boundary
- Sanitary Sewer Line
- Storm Sewer Line
- Storm Sewer Catch Basin
- Manhole Cover
- Former Dry Cleaning Machine

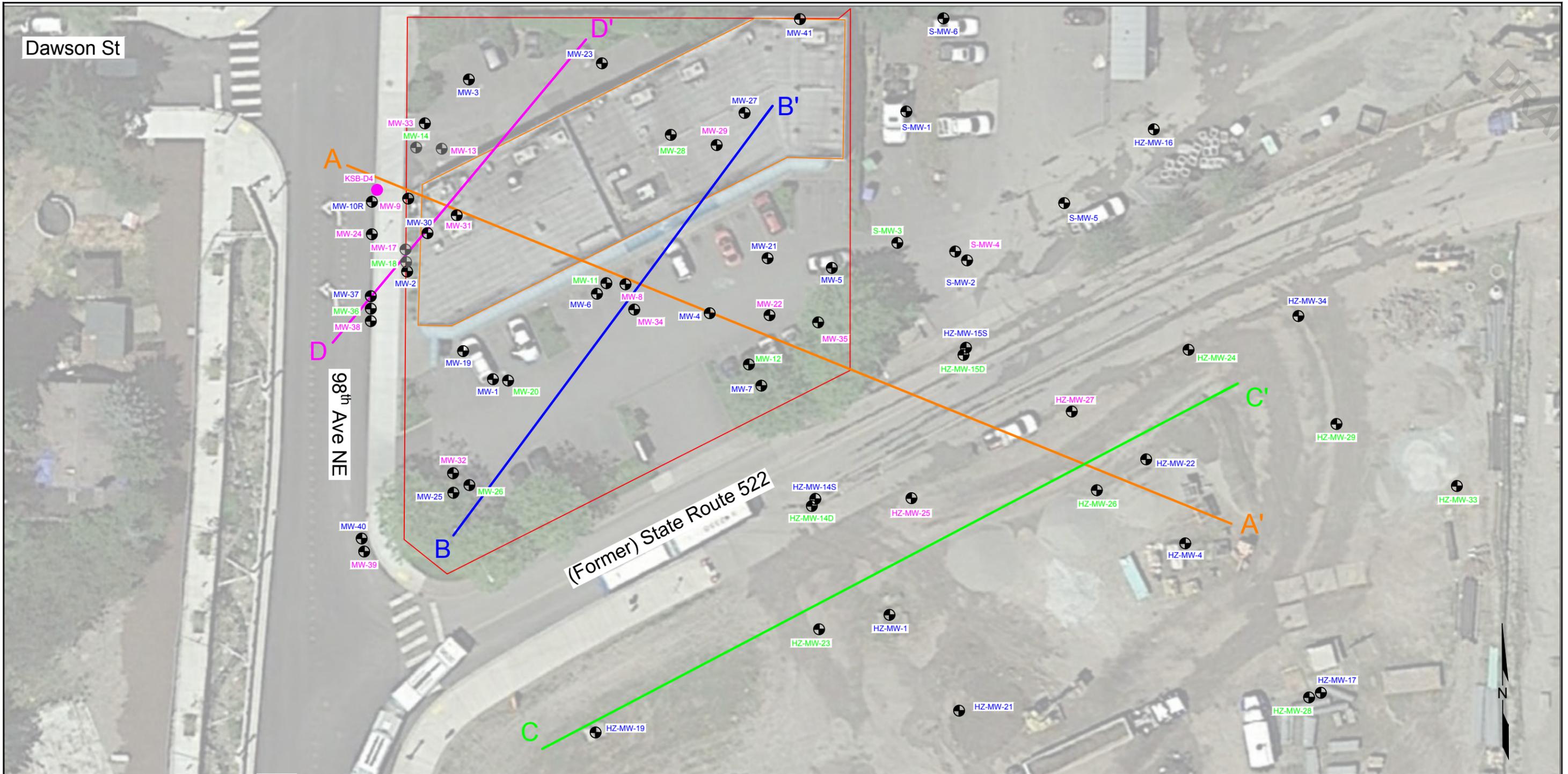
Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016



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Bothell, Washington

Figure 3
BSCA Property Features



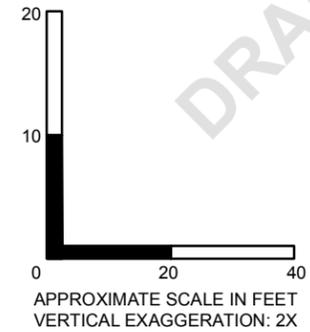
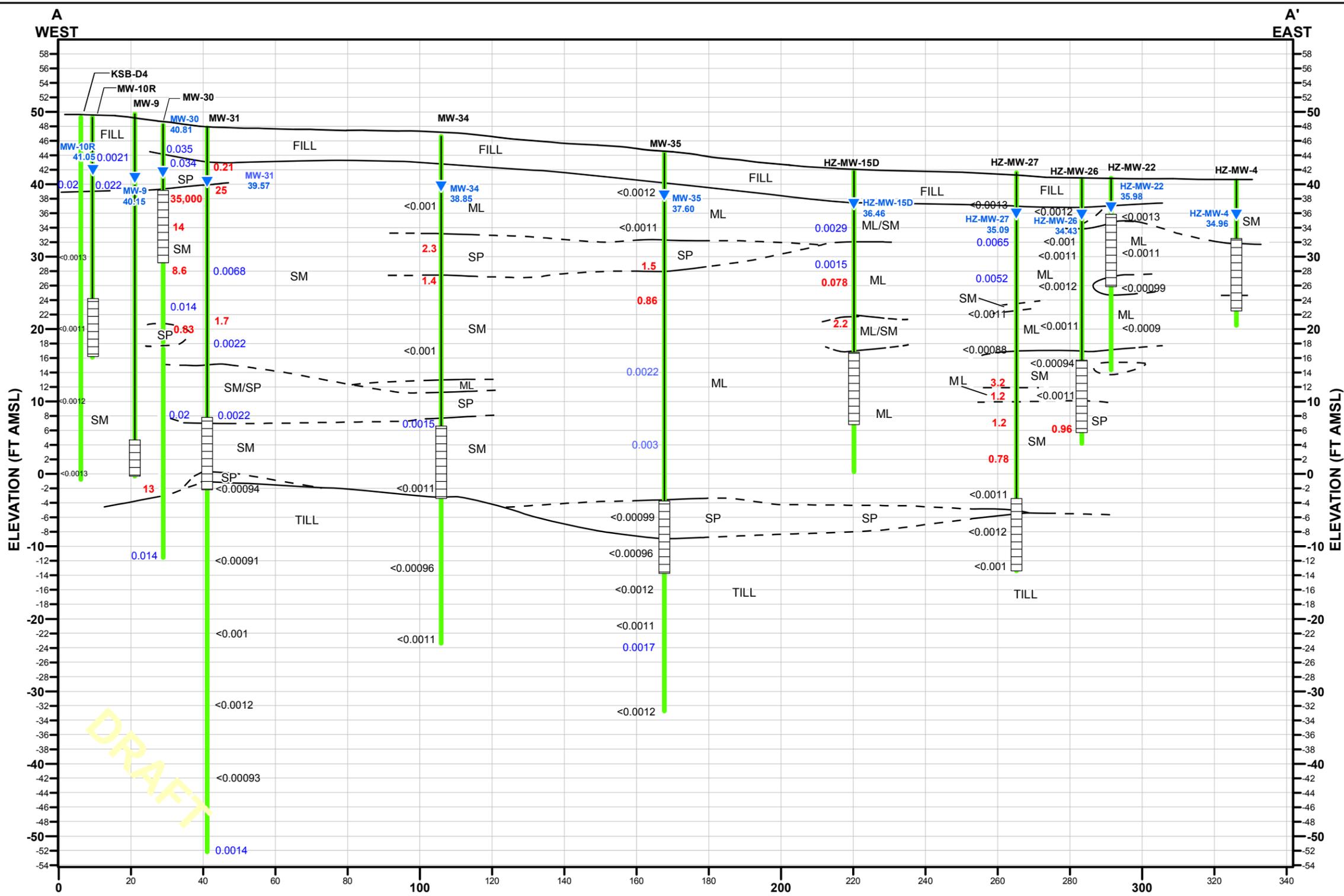
LEGEND

- BSCA Property Boundary
- MW-1 Monitoring Well, "Shallow" (5-25ft)
- MW-2 Monitoring Well, "Intermediate" (25-35 ft)
- MW-3 Monitoring Well, "Deep" (35-55 ft)
- KSB-D4 Soil Boring, "Deep" (55-100ft)

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016



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EXPLANATION

- ▼ GROUNDWATER ELEVATION (FT MSL) (NOVEMBER 14, 2016)
- LITHOLOGIC CONTACT; DASHED WHERE INFERRED
- SEE FIGURE 4 FOR CROSS SECTION LOCATION
- WELL: BLANK CASING, SCREENED CASING
- SOIL BORING

NOTES:

- MONITORING WELLS GAUGED ON 11/14/2016
- FT AMSL = FEET ABOVE MEAN SEA LEVEL.
- UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
 - ML - SILT, CLAYEY SILTS
 - SM - SILTY SANDS, SAND-SILT MIXTURES
 - SP - POORLY GRADED SANDS, GRAVELLY SANDS
 - SW - WELL GRADED SANDS, GRAVELLY SANDS
 - GP - POORLY GRADED GRAVELS, GRAVEL SAND MIXTURES
 - GW - WELL GRADED GRAVELS, GRAVEL SAND MIXTURES
- SOIL ANALYTICAL RESULTS ARE PRESENTED IN MG/KG [PARTS PER MILLION (PPM)]
- RED SOIL RESULTS ARE GREATER THAN MTCA METHOD A CLEANUP LEVELS
- BLUE SOIL RESULTS ARE BELOW MTCA METHOD A CLEANUP LEVELS
- BLACK SOIL RESULTS ARE BELOW THE LABORATORY REPORTING LIMIT

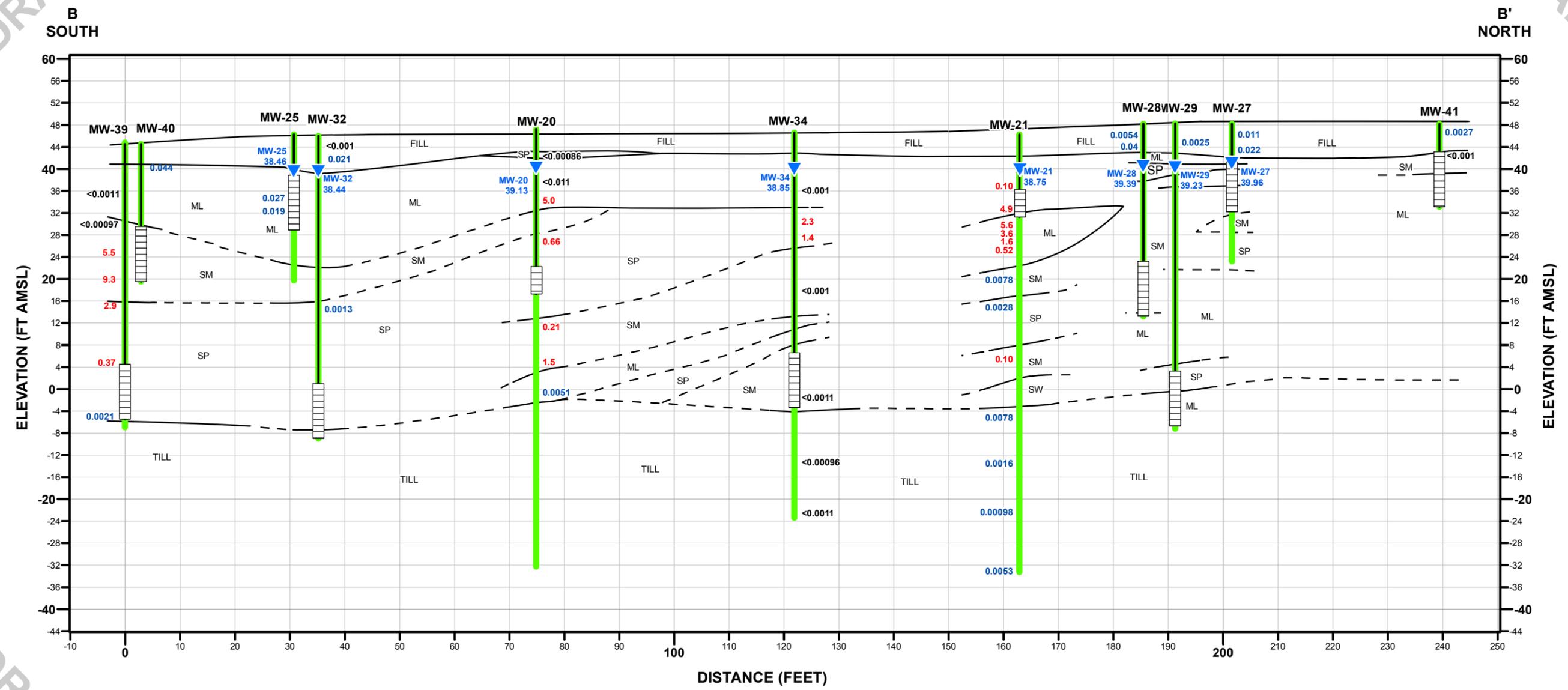


FIGURE 5
GEOLOGIC CROSS SECTION A-A'

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BOTHELL SERVICE CENTER
18107 BOTHELL WAY NE
BOTHELL, WASHINGTON

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EXPLANATION

- ▼ GROUNDWATER ELEVATION (FT MSL) (NOVEMBER 14, 2016)
- LITHOLOGIC CONTACT; DASHED WHERE INFERRED
- WELL
 - BLANK CASING
 - SCREENED CASING
- SOIL BORING

NOTES:

- MONITORING WELLS GAUGED ON 11/14/2016
- FT AMSL = FEET ABOVE MEAN SEA LEVEL.
- UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
 - ML - SILT, CLAYEY SILTS
 - SM - SILTY SANDS, SAND-SILT MIXTURES
 - SP - POORLY GRADED SANDS, GRAVELLY SANDS
 - SW - WELL GRADED SANDS, GRAVELLY SANDS
 - GP - POORLY GRADED GRAVELS, GRAVEL SAND MIXTURES
 - GW - WELL GRADED GRAVELS, GRAVEL SAND MIXTURES
- ANALYTICAL SOIL RESULTS ARE PRESENTED IN MG/KG (PARTS PER MILLION (PPM))
 - RED SOIL RESULTS ARE GREATER THAN MTCA METHOD CLEANUP LEVELS
 - BLUE SOIL RESULTS ARE BELOW MTCA METHOD CLEANUP LEVELS
 - BLACK SOIL RESULTS ARE GREATER THAN MTCA METHOD CLEANUP LEVELS

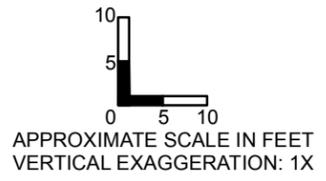
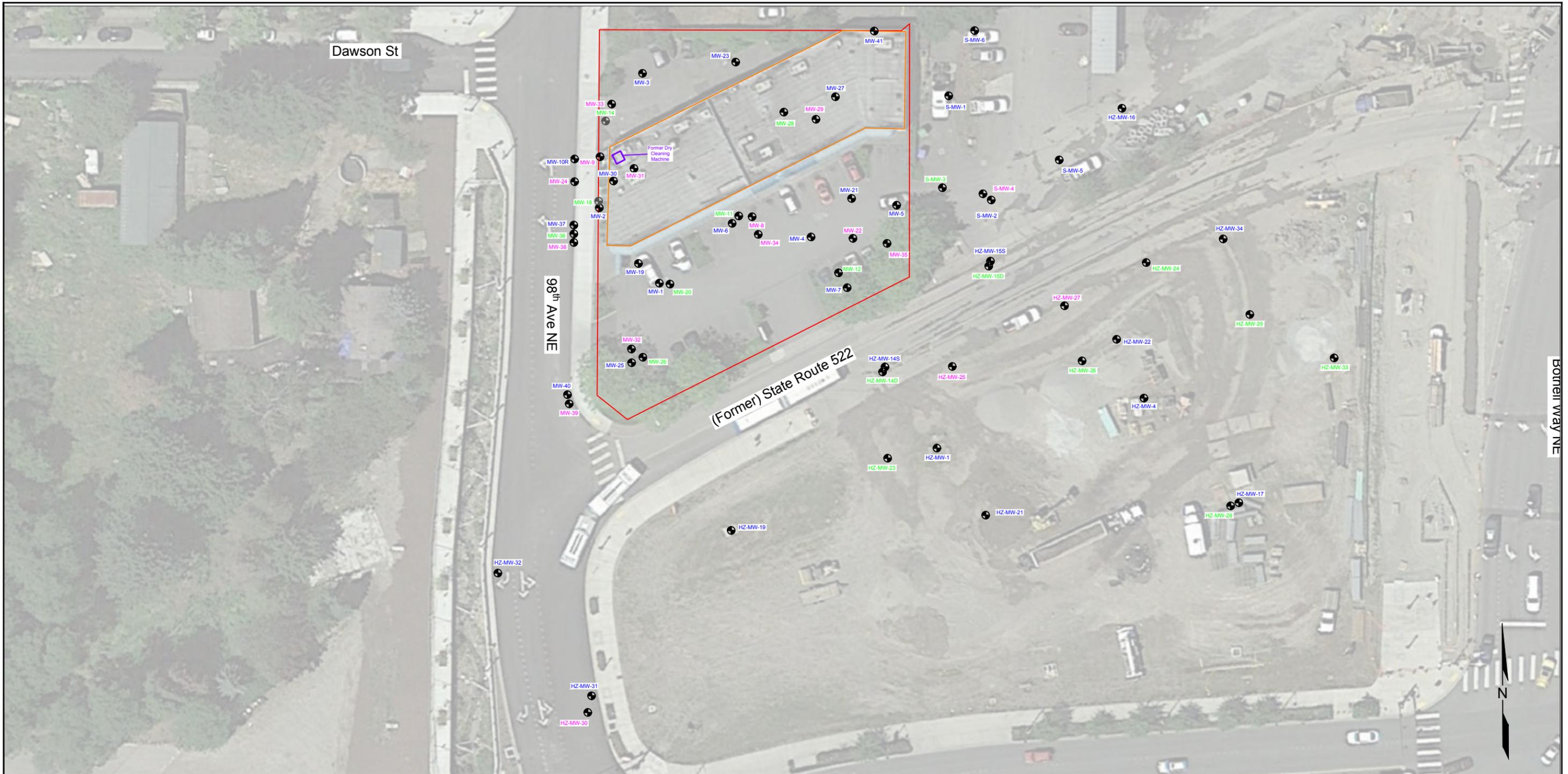


	FIGURE 6			
	GEOLOGIC CROSS SECTION B-B'			
DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON				
Drawn By: DH	Checked By: CF	Scale: AS SHOWN	Date: 5/18/17	File: Bothell2016XsecB.mxd

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LEGEND

- BSCA Property Boundary
- Former Dry Cleaning Machine
- MW-1 Monitoring Well, Shallow (5-25ft)
- MW-2 Monitoring Well, Intermediate (25-35 ft)
- MW-3 Monitoring Well, Deep (35-55 ft)

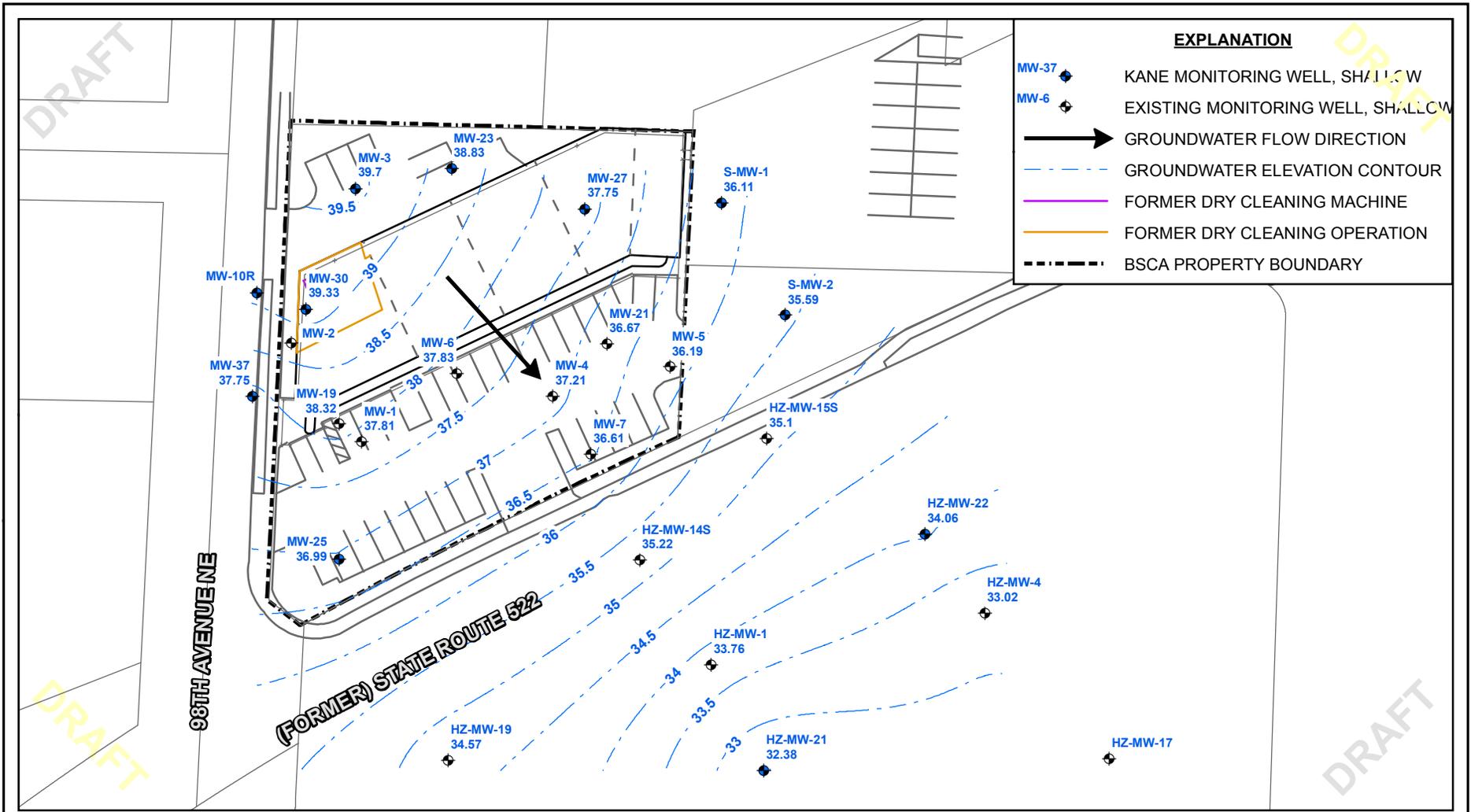
Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016



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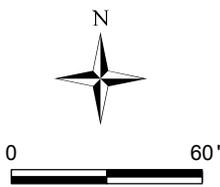
DRAFT RI/FS
Bothell Service Center
18107 Bothell Way NE
Bothell, Washington

Figure 9
Groundwater Monitoring Well
Locations

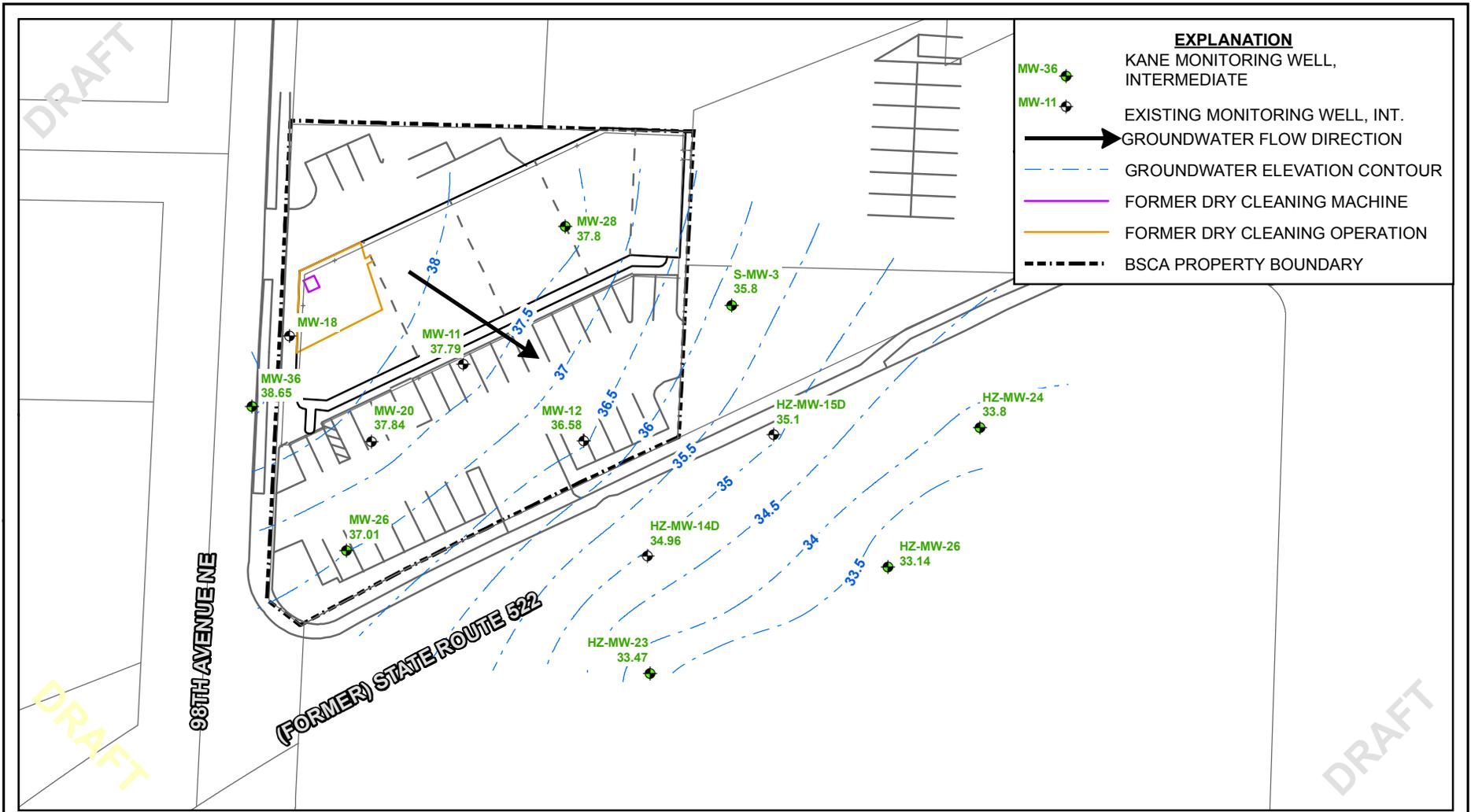


EXPLANATION	
MW-37	KANE MONITORING WELL, SHALLOW
MW-6	EXISTING MONITORING WELL, SHALLOW
→	GROUNDWATER FLOW DIRECTION
- - -	GROUNDWATER ELEVATION CONTOUR
- - -	FORMER DRY CLEANING MACHINE
—	FORMER DRY CLEANING OPERATION
- - -	BSCA PROPERTY BOUNDARY

- NOTES:
1. Monitoring wells gauged 9/12/2016
 2. Groundwater elevations listed in feet mean sea level
 3. MW-2 was not measured during this event

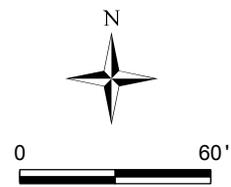


<p>3223 Woodland Park Avenue North, Suite 222 Seattle, WA 98149-4346 www.kane-environmental.com</p>	FIGURE 10a GROUNDWATER ELEVATIONS SHALLOW ZONE (5-25 ft) - SEPTEMBER 2016	
	DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON	
Drawn By: CF	Checked By: JK	Scale: 1" = 60'
Date: 10/5/16	File: Bothell2016FallIGWE_Z1.mxd	

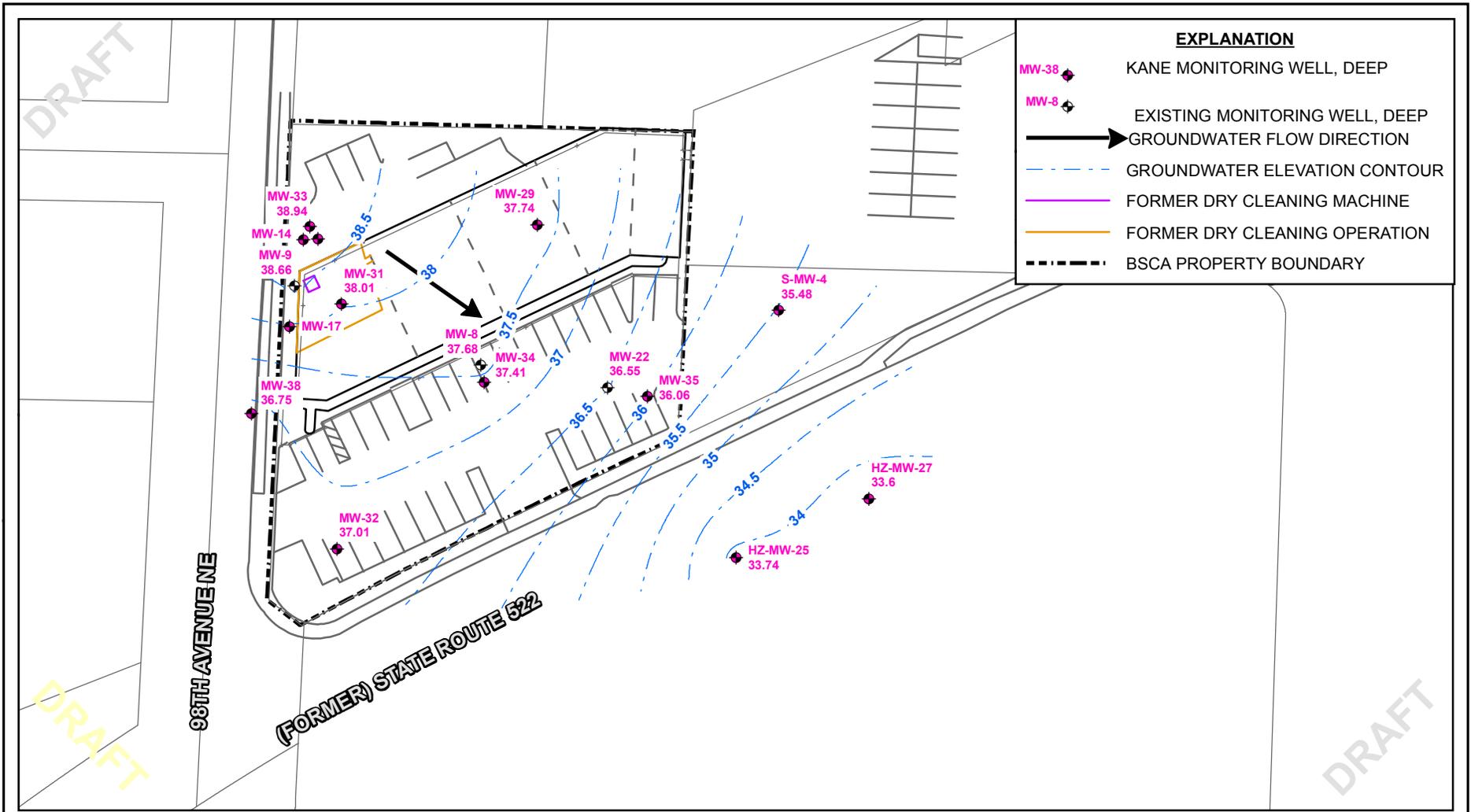


EXPLANATION	
MW-36	KANE MONITORING WELL, INTERMEDIATE
MW-11	EXISTING MONITORING WELL, INT.
→	GROUNDWATER FLOW DIRECTION
- - -	GROUNDWATER ELEVATION CONTOUR
— (orange)	FORMER DRY CLEANING MACHINE
— (yellow)	FORMER DRY CLEANING OPERATION
- - - (black)	BSCA PROPERTY BOUNDARY

- NOTES:
1. Monitoring wells gauged 9/12/2016
 2. Groundwater elevations listed in feet mean sea level
 3. MW-18 was not measured during this event

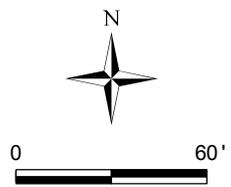


 <small>3223 Woodland Park Avenue North, Suite 222 Seattle, WA - 206-493-0476 www.kane-environmental.com</small>	FIGURE 10b			
	GROUNDWATER ELEVATIONS INTERMEDIATE ZONE (25-35 ft) - SEPTEMBER 2016			
	DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON			
Drawn By: CF	Checked By: JK	Scale: 1" = 60'	Date: 10/5/16	File: Bothell2016FallGWE_Z2.mxd

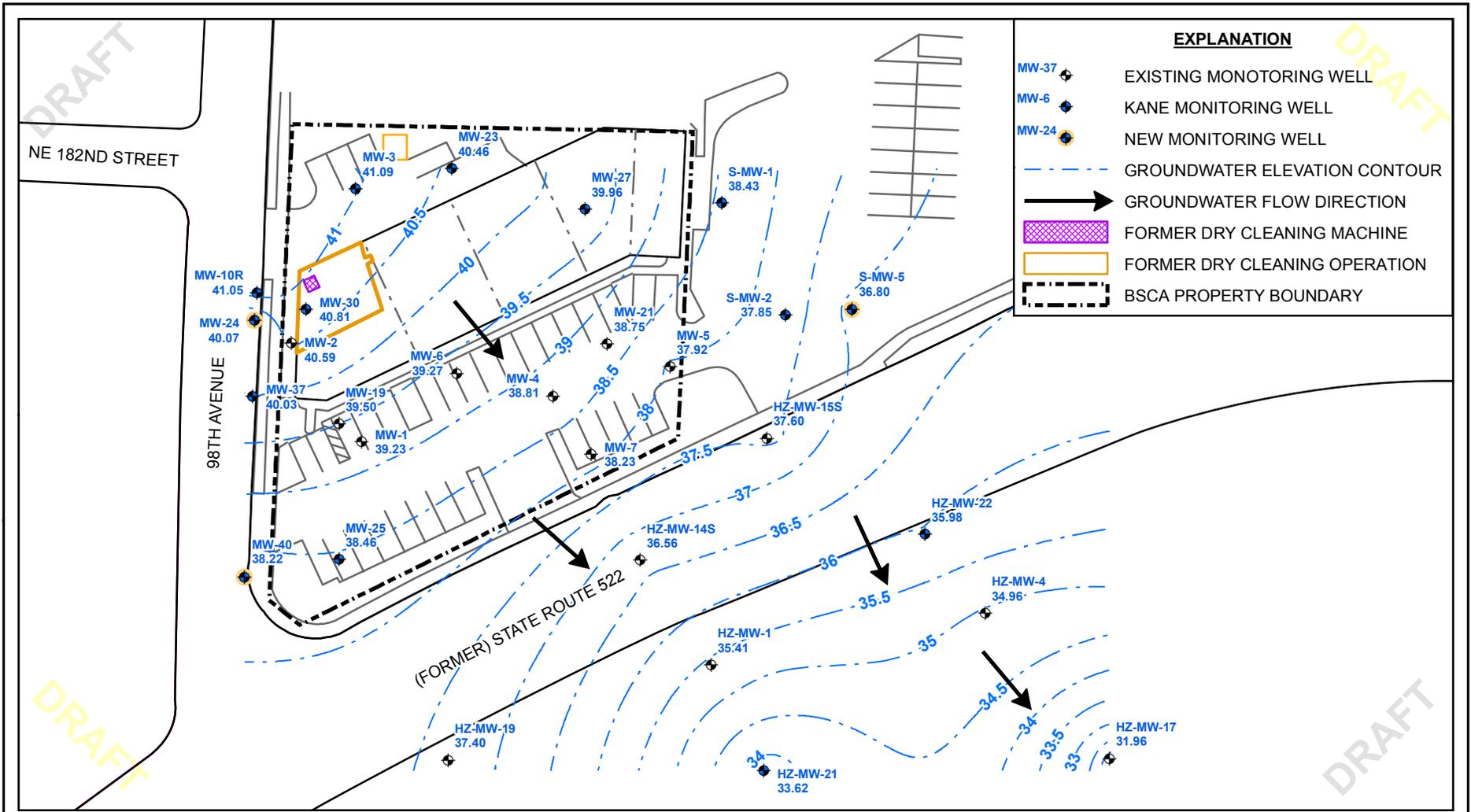


EXPLANATION	
	MW-38 KANE MONITORING WELL, DEEP
	MW-8 EXISTING MONITORING WELL, DEEP
	GROUNDWATER FLOW DIRECTION
	GROUNDWATER ELEVATION CONTOUR
	FORMER DRY CLEANING MACHINE
	FORMER DRY CLEANING OPERATION
	BSCA PROPERTY BOUNDARY

NOTES:
 1. Monitoring wells gauged 9/12/2016
 2. Groundwater elevations listed in feet mean sea level

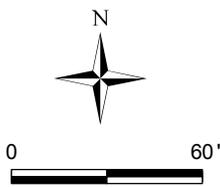


 8828 Woodland Park Avenue North, Suite 222 Seattle, WA 98148-4346 www.kane-environmental.com	FIGURE 10c GROUNDWATER ELEVATIONS DEEP ZONE (35-55 ft) - SEPTEMBER 2016	
	DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON	
	Drawn By: CF	Checked By: JK

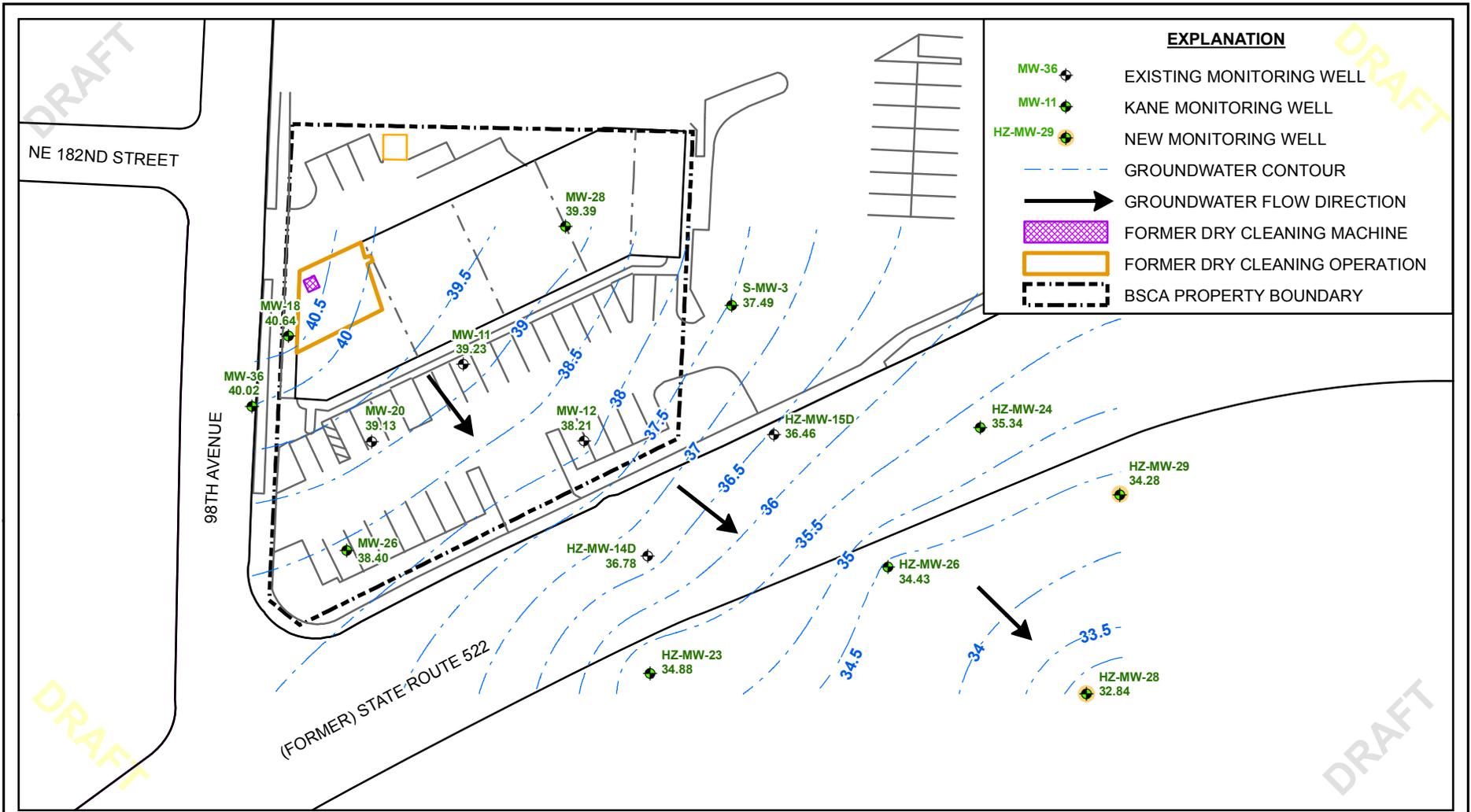


EXPLANATION	
MW-37	EXISTING MONITORING WELL
MW-6	KANE MONITORING WELL
MW-24	NEW MONITORING WELL
(Dashed blue line)	GROUNDWATER ELEVATION CONTOUR
(Arrow)	GROUNDWATER FLOW DIRECTION
(Pink hatched area)	FORMER DRY CLEANING MACHINE
(Orange hatched area)	FORMER DRY CLEANING OPERATION
(Dashed black line)	BSCA PROPERTY BOUNDARY

NOTES:
 1. Monitoring wells gauged on 11/14/2016
 2. Groundwater elevations listed in feet mean sea level

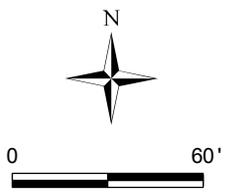


 3023 Woodland Park Avenue North, Suite 202 Seattle, WA 98149-4346 www.kane-environmental.com	FIGURE 11a	
	GROUNDWATER ELEVATIONS SHALLOW ZONE (5-25 ft) - NOVEMBER 2016	
	DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON	
Drawn By: CF	Checked By: JK	Scale: 1" = 60'
Date: 11/17/16	File: BothellGWE_Z1_20161114.mxd	

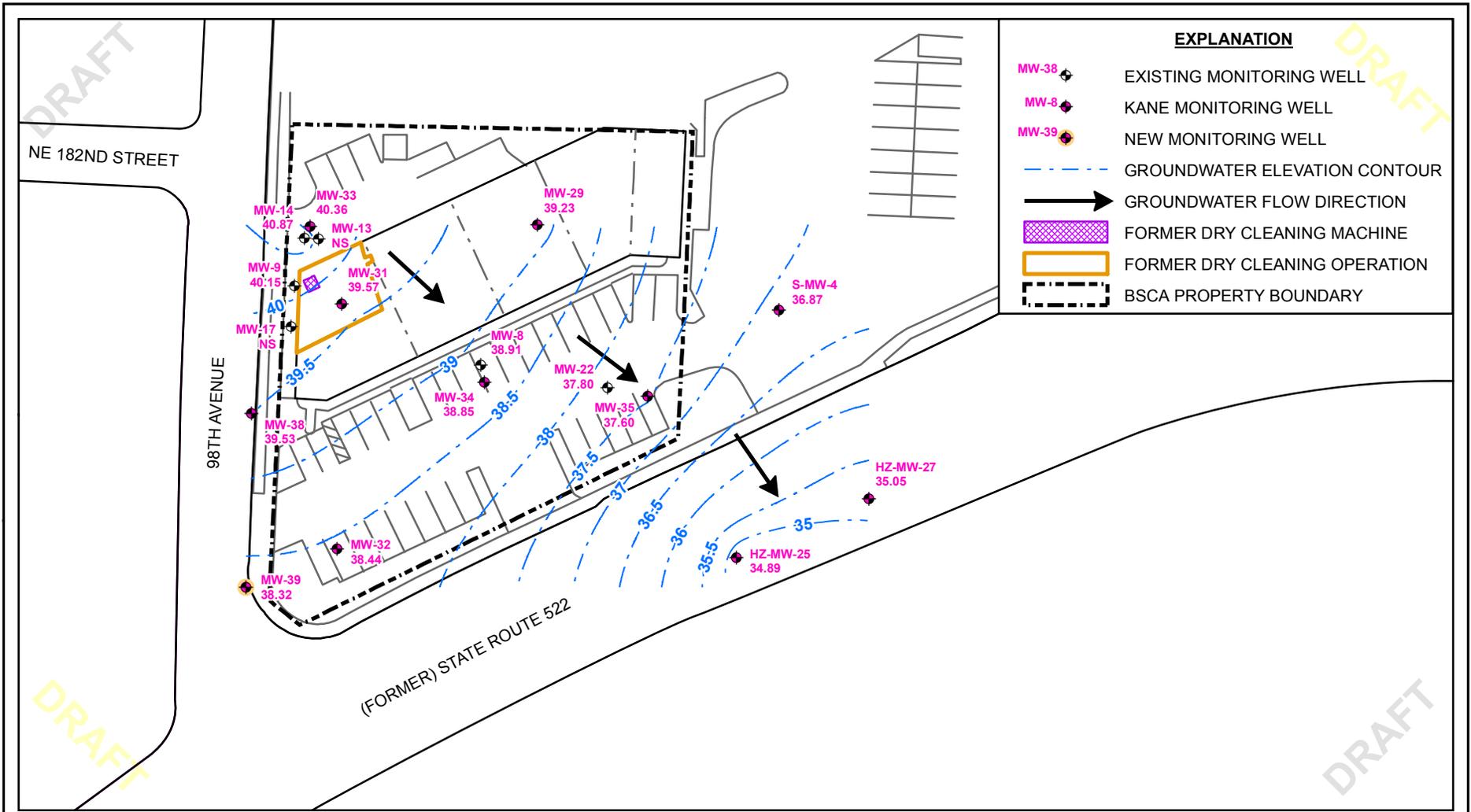


EXPLANATION	
MW-36	EXISTING MONITORING WELL
MW-11	KANE MONITORING WELL
HZ-MW-29	NEW MONITORING WELL
(Blue dashed line)	GROUNDWATER CONTOUR
(Black arrow)	GROUNDWATER FLOW DIRECTION
(Purple hatched box)	FORMER DRY CLEANING MACHINE
(Orange outline box)	FORMER DRY CLEANING OPERATION
(Dashed line)	BSCA PROPERTY BOUNDARY

NOTES:
 1. Monitoring wells gauged on 11/14/2016
 2. Groundwater elevations listed in feet mean sea level

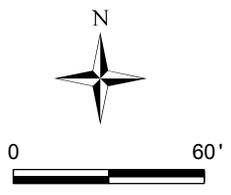


 3023 Woodland Park Avenue North, Suite 202 Seattle, WA - 206-489-0206 www.kane-environmental.com	FIGURE 11b			
	GROUNDWATER ELEVATIONS INTERMEDIATE ZONE (25-35 ft) - NOVEMBER 2016			
	DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON			
Drawn By: CF	Checked By: JK	Scale: 1" = 60'	Date: 11/17/16	File: BothellGWE_Z2_20161114.mxd



EXPLANATION	
MW-38	EXISTING MONITORING WELL
MW-8	KANE MONITORING WELL
MW-39	NEW MONITORING WELL
- - - -	GROUNDWATER ELEVATION CONTOUR
→	GROUNDWATER FLOW DIRECTION
[Hatched Box]	FORMER DRY CLEANING MACHINE
[Orange Outline Box]	FORMER DRY CLEANING OPERATION
[Dashed Line Box]	BSCA PROPERTY BOUNDARY

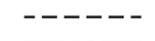
- NOTES:
1. Monitoring wells gauged on 11/14/2016
 2. Groundwater elevations listed in feet mean sea level
 3. NS - Not measured during this event



<p>3023 Woodland Park Avenue North, Suite 202 Seattle, WA - 206-493-0206 www.kane-environmental.com</p>	FIGURE 11c	
	GROUNDWATER ELEVATIONS DEEP ZONE (35-55 ft)	
	- NOVEMBER 2016	
DRAFT RI/FS		
BOTHELL SERVICE CENTER		
18107 BOTHELL WAY NE		
BOTHELL, WASHINGTON		
Drawn By: CF	Checked By: JK	Scale: 1" = 60'
Date: 11/17/16	File: BothellGWE_Z3_20161114.mxd	

LEGEND

-  SHALLOW WELL LOCATION
-  FORMER DRY CLEANING MACHINE
-  VAPOR EXTRACTION WELL
-  MONITORING WELL
-  SOIL BORING
-  SOIL BORING (Nov 2015)
-  MEMBRANE INTERFACE PROBE (MIP) BORING (NOV 2015)
-  GEOPROBE (ERM, JULY 2000)
-  HAND AUGER (ERM, DECEMBER 1999)

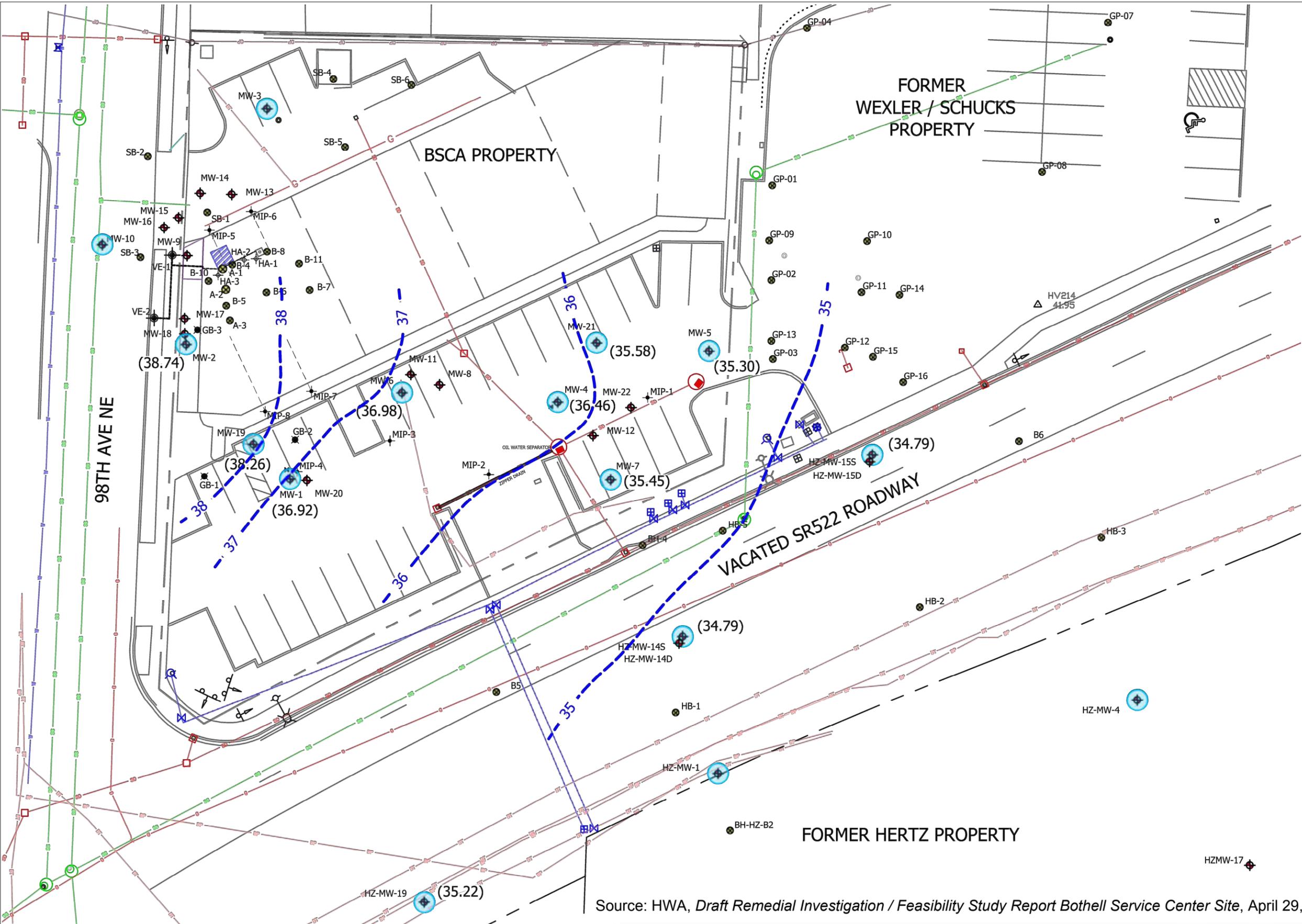
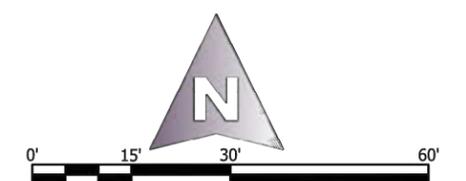
-  SITE BOUNDARY
-  UNDERGROUND PIPING ASSOCIATED WITH SVE SYSTEM
-  HORIZONTAL SVE WELL (ERM)
-  PROPERTY LINE
-  STORM DRAIN LINE
-  SANITARY SEWER LINE
-  BURIED POWER LINE
-  WATER LINE
-  BURIED TELEPHONE LINE
-  OVERHEAD POWER LINE
-  NATURAL GAS LINE
-  ANGLED MIP BORING BENEATH BUILDING

NOTES:

PCE - TETRACHLOROETHYLENE (µg/L)
 TCE - TRICHLOROETHYLENE (µg/L)
 DCE - (CIS) 1,2 DICHLOROETHYLENE (µg/L)
 VC - VINYL CHLORIDE (µg/L)

Bold - detected

Bold / highlighted - Analyte exceeds groundwater

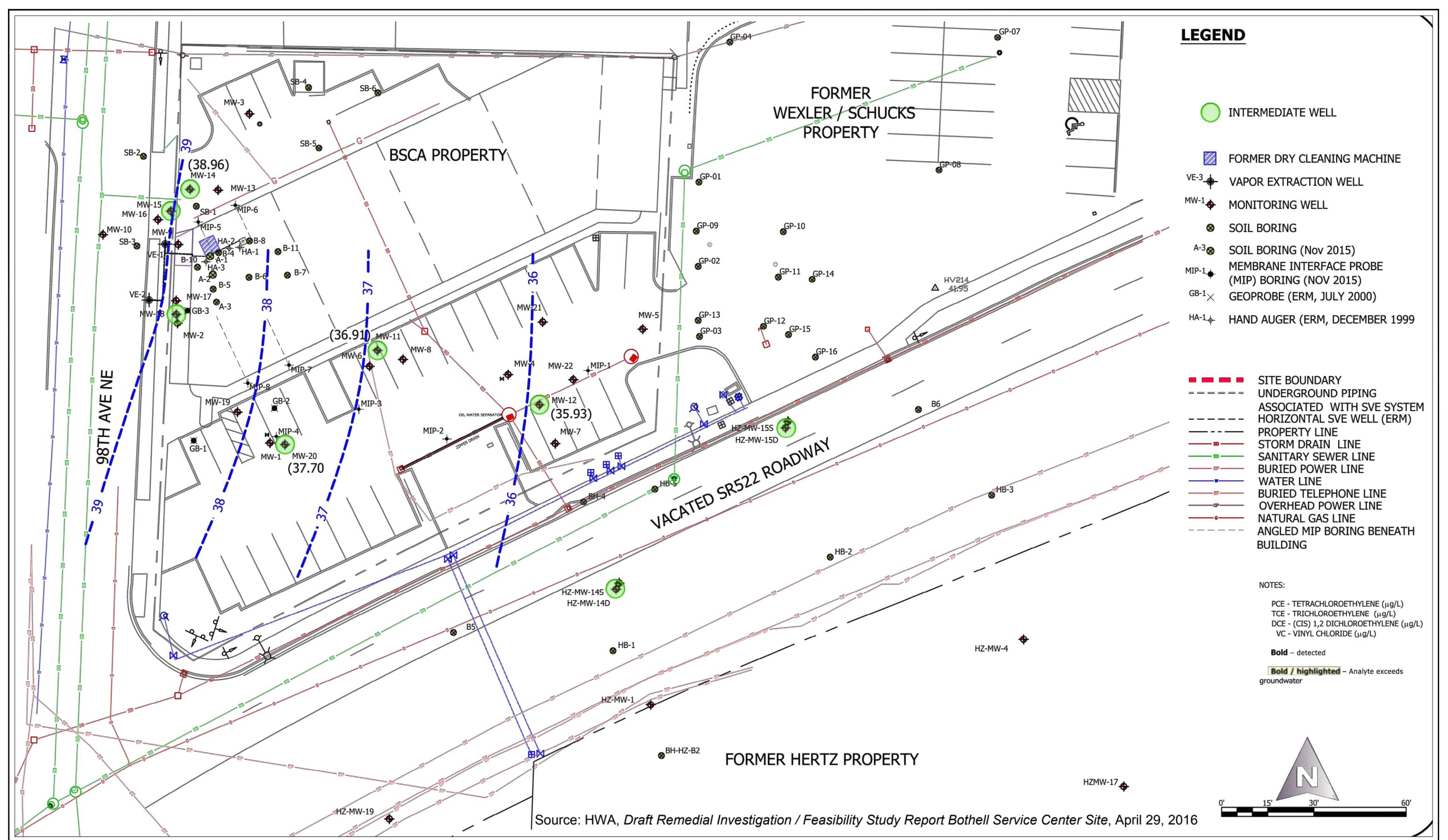


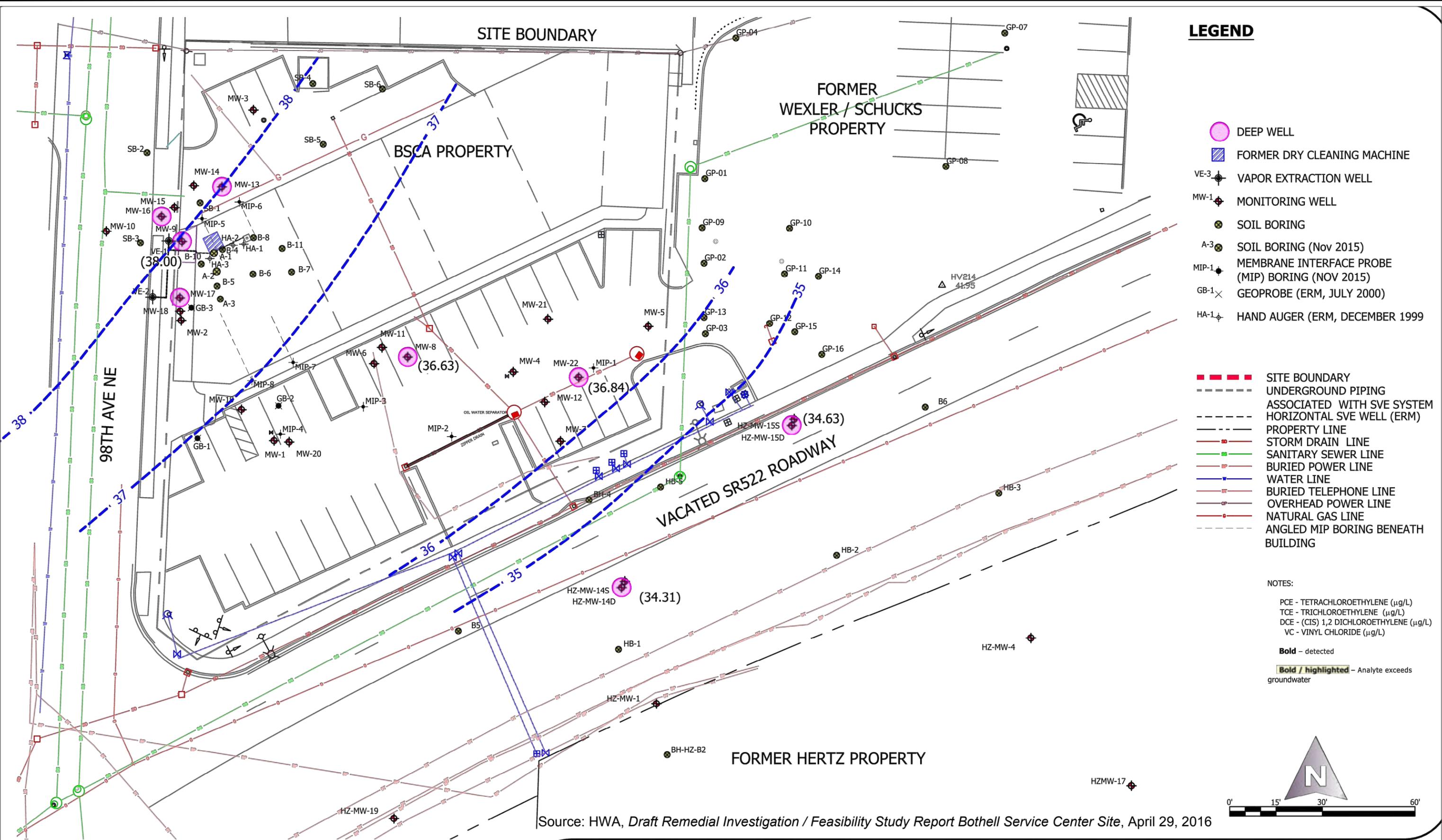
Source: HWA, Draft Remedial Investigation / Feasibility Study Report Bothell Service Center Site, April 29, 2016



DRAFT RI/FS
 Bothell Service Center
 18107 Bothell Way NE
 Bothell, Washington

Figure 12a
 Shallow Monitoring Well
 Groundwater Elevation -
 November 2015





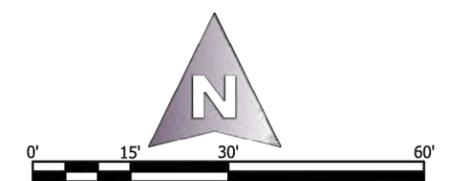
- LEGEND**
- DEEP WELL
 - ▭ FORMER DRY CLEANING MACHINE
 - VE-3 ⊕ VAPOR EXTRACTION WELL
 - MW-1 ⊕ MONITORING WELL
 - SOIL BORING
 - A-3 ● SOIL BORING (Nov 2015)
 - MIP-1 ⊕ MEMBRANE INTERFACE PROBE (MIP) BORING (NOV 2015)
 - GB-1 ⊗ GEOPROBE (ERM, JULY 2000)
 - HA-1 ⊕ HAND AUGER (ERM, DECEMBER 1999)

- - - - SITE BOUNDARY
- - - - UNDERGROUND PIPING ASSOCIATED WITH SVE SYSTEM
- - - - HORIZONTAL SVE WELL (ERM)
- - - - PROPERTY LINE
- - - - STORM DRAIN LINE
- - - - SANITARY SEWER LINE
- - - - BURIED POWER LINE
- - - - WATER LINE
- - - - BURIED TELEPHONE LINE
- - - - OVERHEAD POWER LINE
- - - - NATURAL GAS LINE
- - - - ANGLED MIP BORING BENEATH BUILDING

NOTES:

PCE - TETRACHLOROETHYLENE (µg/L)
TCE - TRICHLOROETHYLENE (µg/L)
DCE - (CIS) 1,2 DICHLOROETHYLENE (µg/L)
VC - VINYL CHLORIDE (µg/L)

Bold - detected
Bold / highlighted - Analyte exceeds groundwater

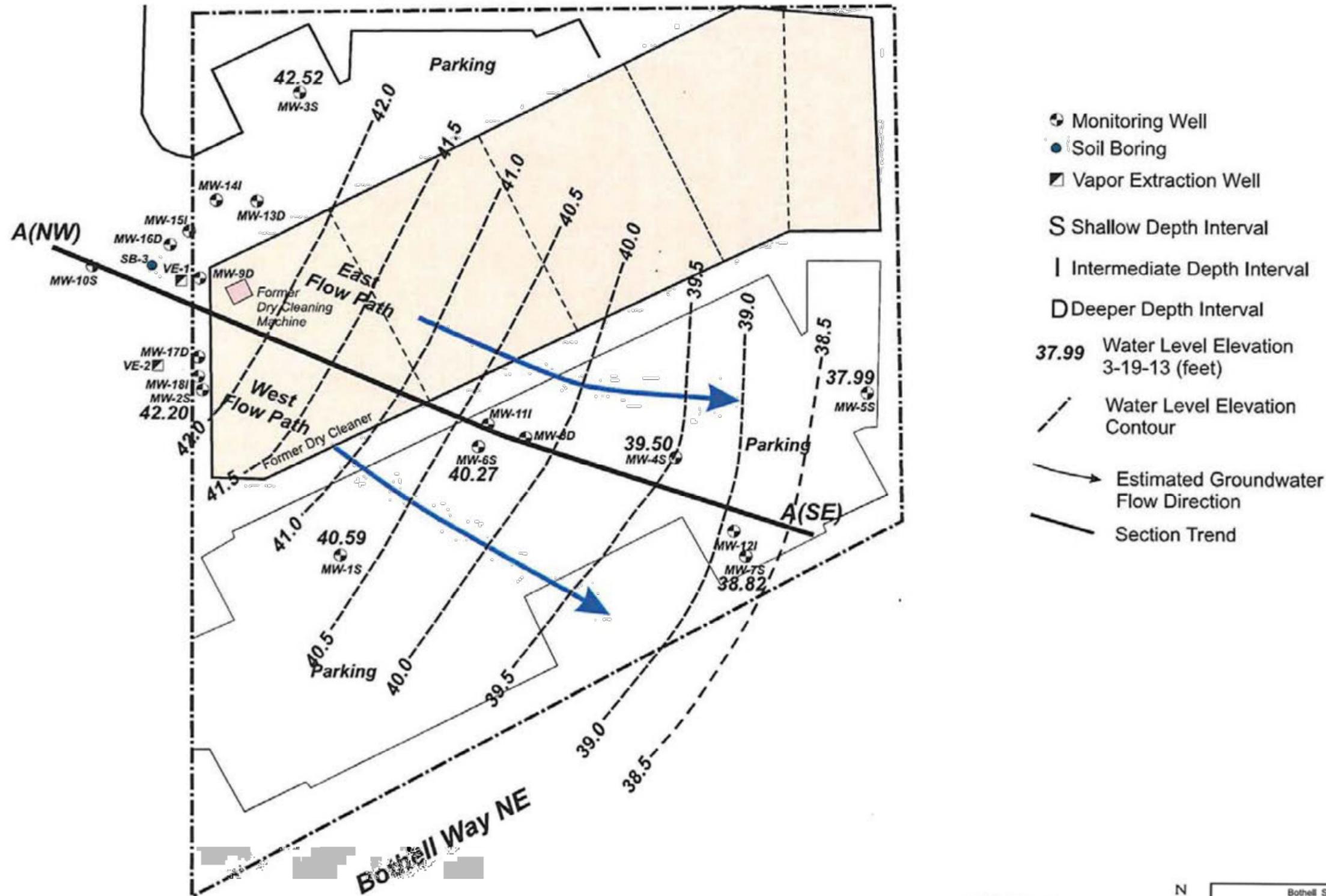


Source: HWA, Draft Remedial Investigation / Feasibility Study Report Bothell Service Center Site, April 29, 2016



DRAFT RI/FS
Bothell Service Center
18107 Bothell Way NE
Bothell, Washington

Figure 12c
Deep Monitoring Well
Groundwater Elevation -
November 2015



Source: HWA, Draft Remedial Investigation /
 Feasibility Study Report Bothell Service
 Center Site, April 29, 2016

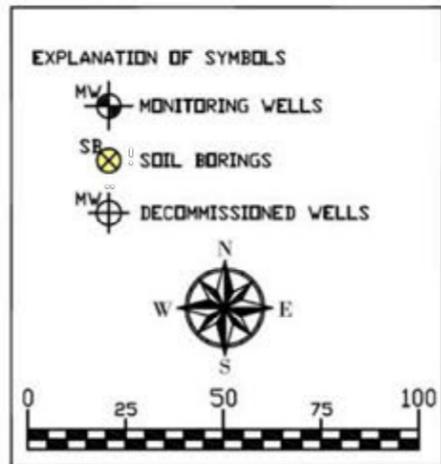
Figure Source: Dalton Olmstead Fuglevand, 2014

0 20
 Scale in Feet
 (approximate)

Bothell Service Center
 Bothell, WA

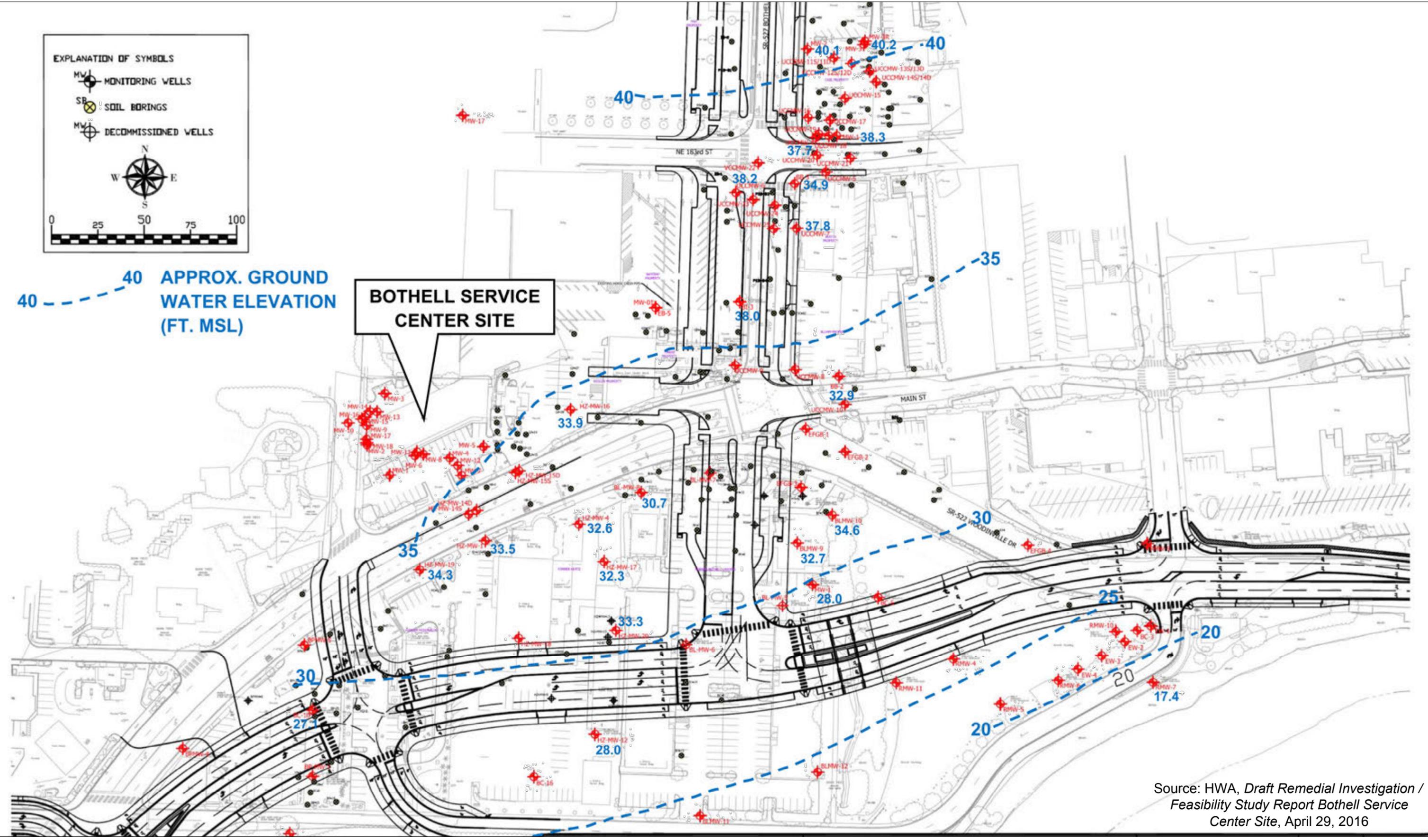
Estimated Groundwater
 Flow Directions - March 2013

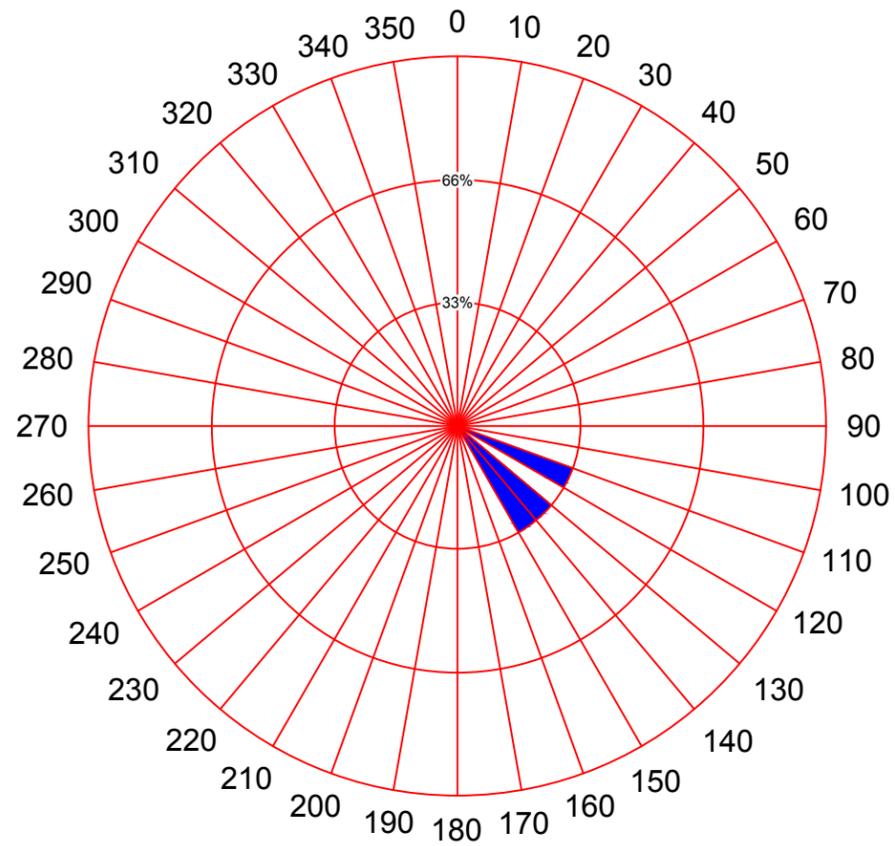
BSC-001 **FIGURE x** May 2013
 Dalton, Olmsted & Fuglevand, Inc.



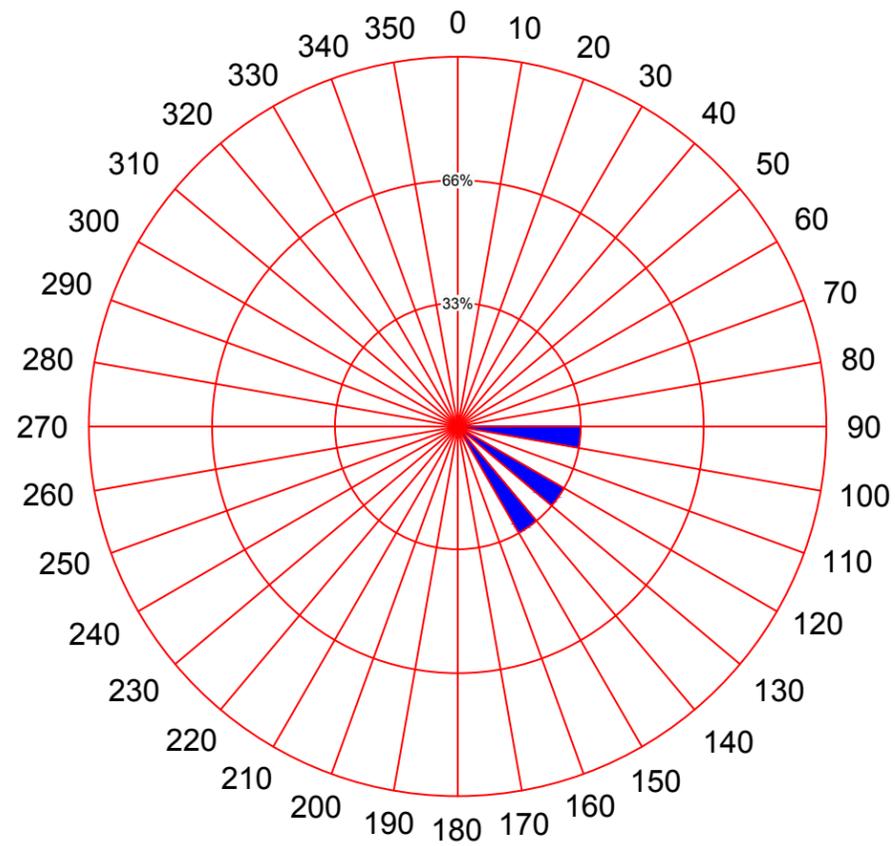
40 - - - - 40 APPROX. GROUND WATER ELEVATION (FT. MSL)

BOTHELL SERVICE CENTER SITE

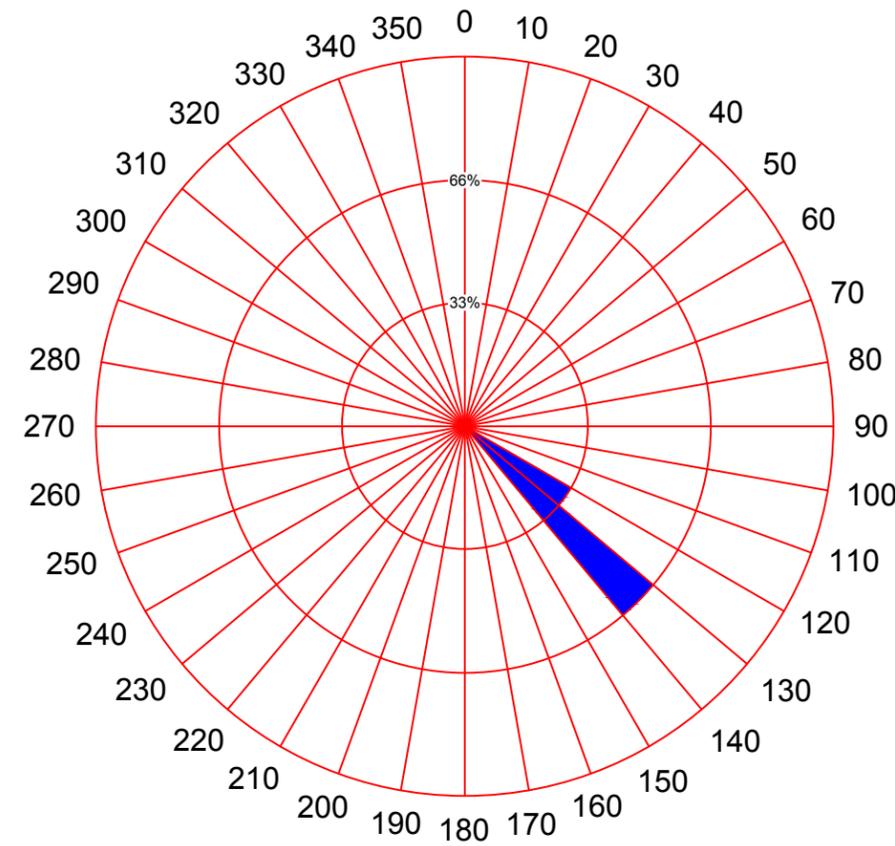




**Shallow
Zone**



**Intermediate
Zone**

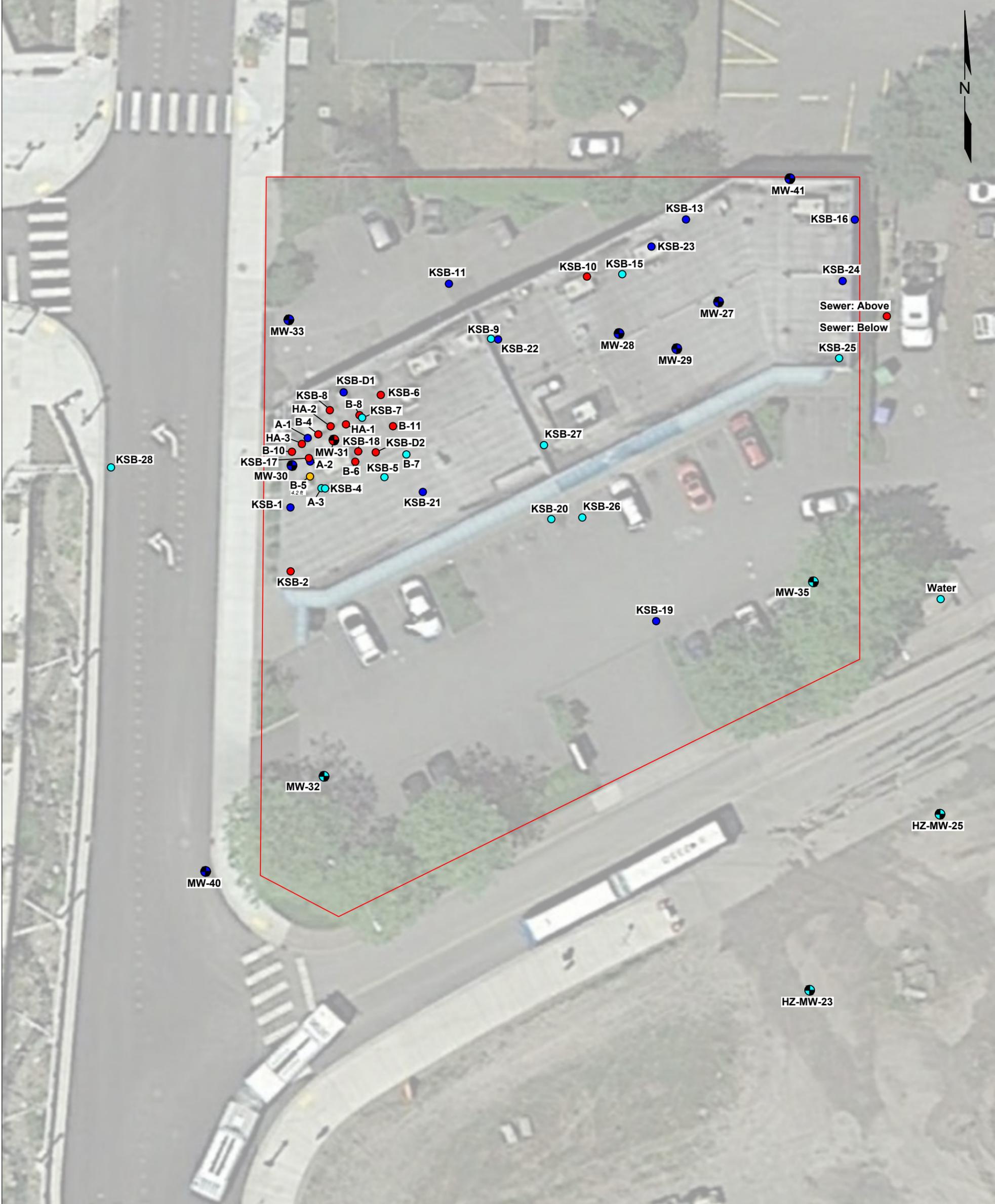


**Deep
Zone**

LEGEND

Groundwater flow direction was calculated based on measurements from November 2015, September 2016, and November 2016.

Groundwater flow direction during the November 2016 measurement event was calculated by averaging various flow directions from throughout the Site.

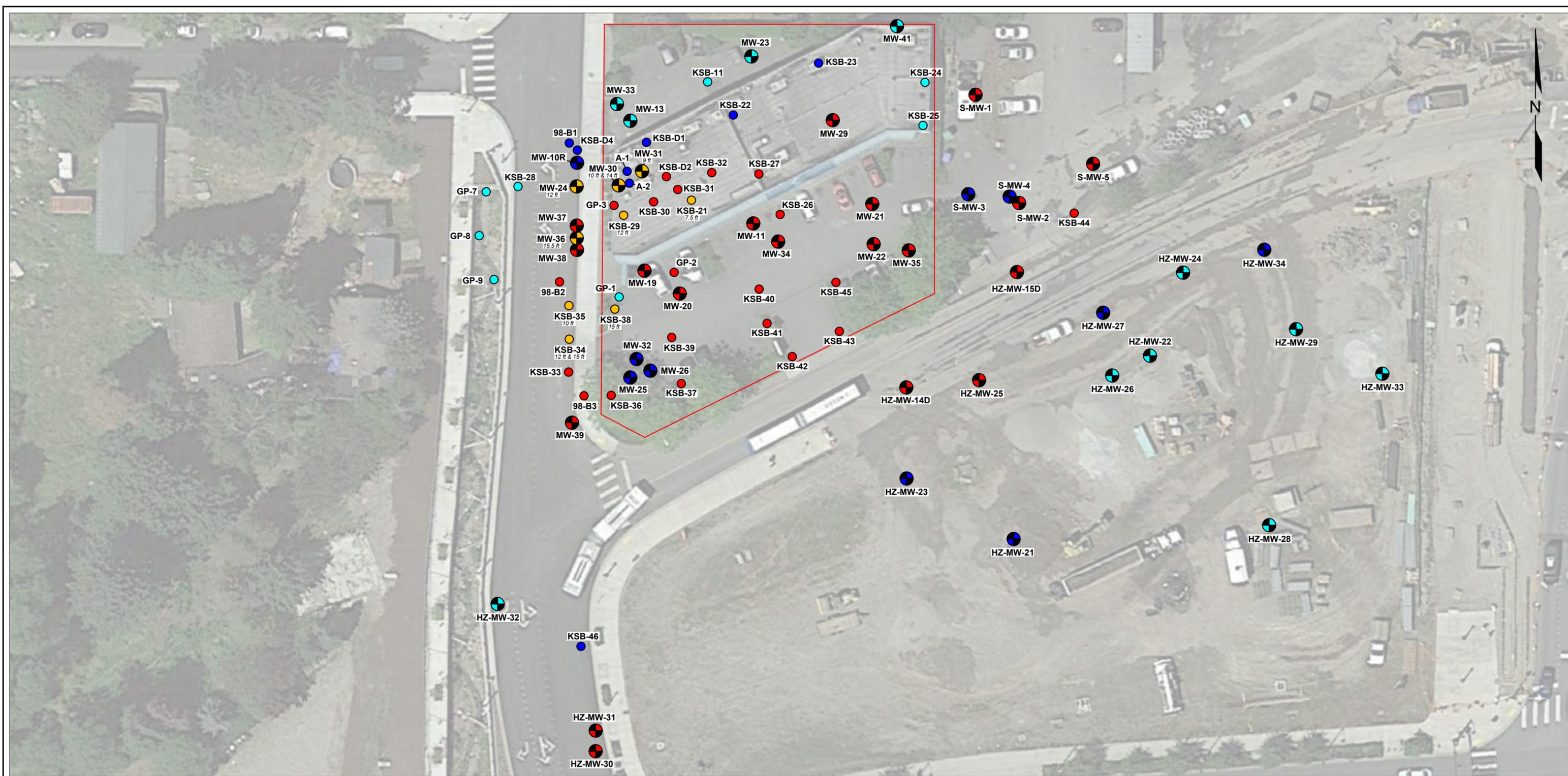


LEGEND

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016

- BSCA Property Boundary
- Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Monitoring well soil sample location with concentration above MTCA Method A cleanup level
- Monitoring well soil sample location with concentration below MTCA Method A cleanup level
- Monitoring well soil sample location with nondetectable concentration
- Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Soil sample location with concentration above MTCA cleanup level
- Soil sample location with concentration below MTCA cleanup level
- Soil sample location with nondetectable concentration





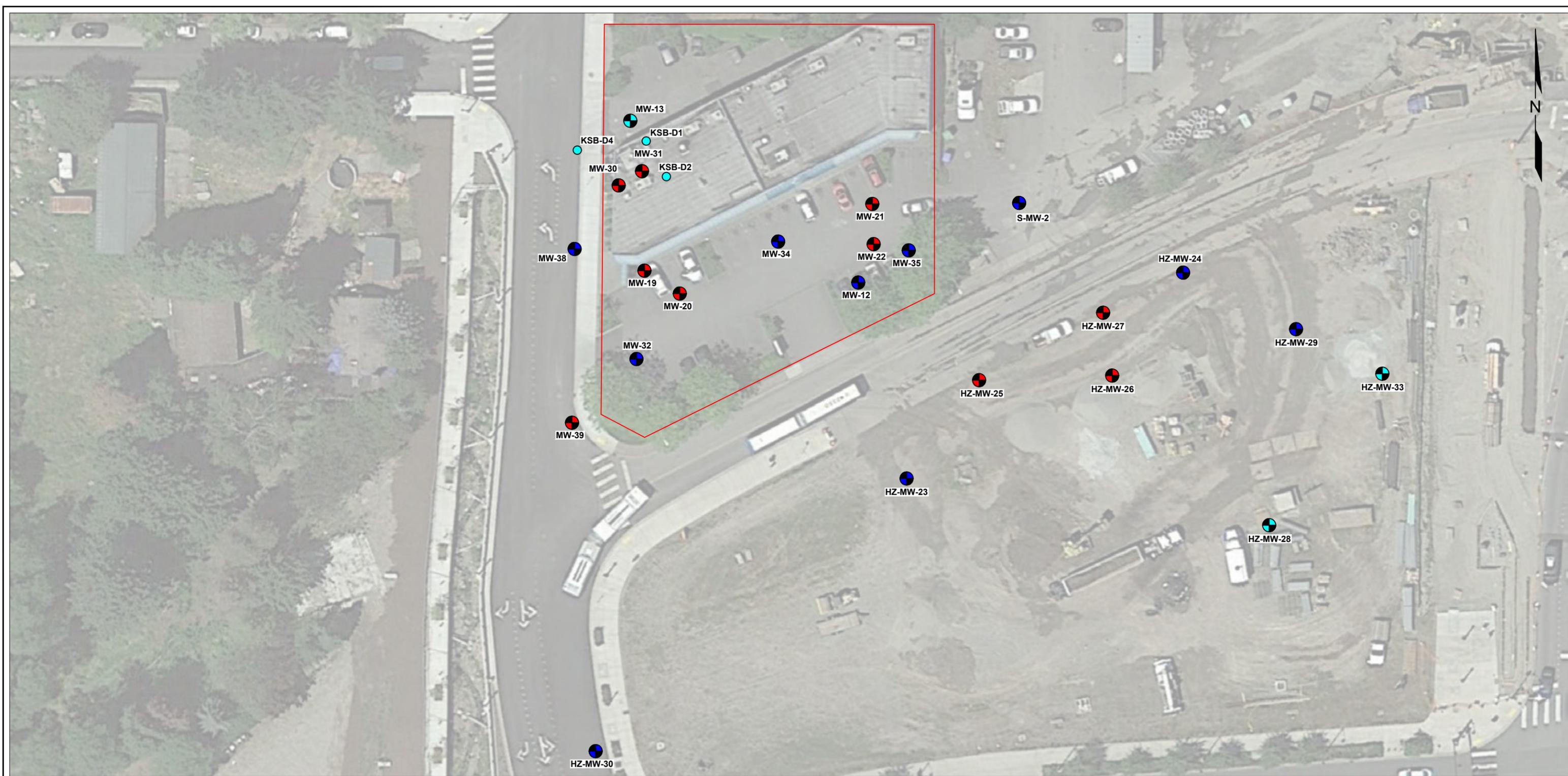
LEGEND

— BSCA Property Boundary

- Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Monitoring well soil sample location with concentration above MTCA Method A cleanup level
- Monitoring well soil sample location with concentration below MTCA Method A cleanup level
- Monitoring well soil sample location with nondetectable concentration
- Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Soil sample location with concentration above MTCA cleanup level
- Soil sample location with concentration below MTCA cleanup level
- Soil sample location with nondetectable concentration

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016





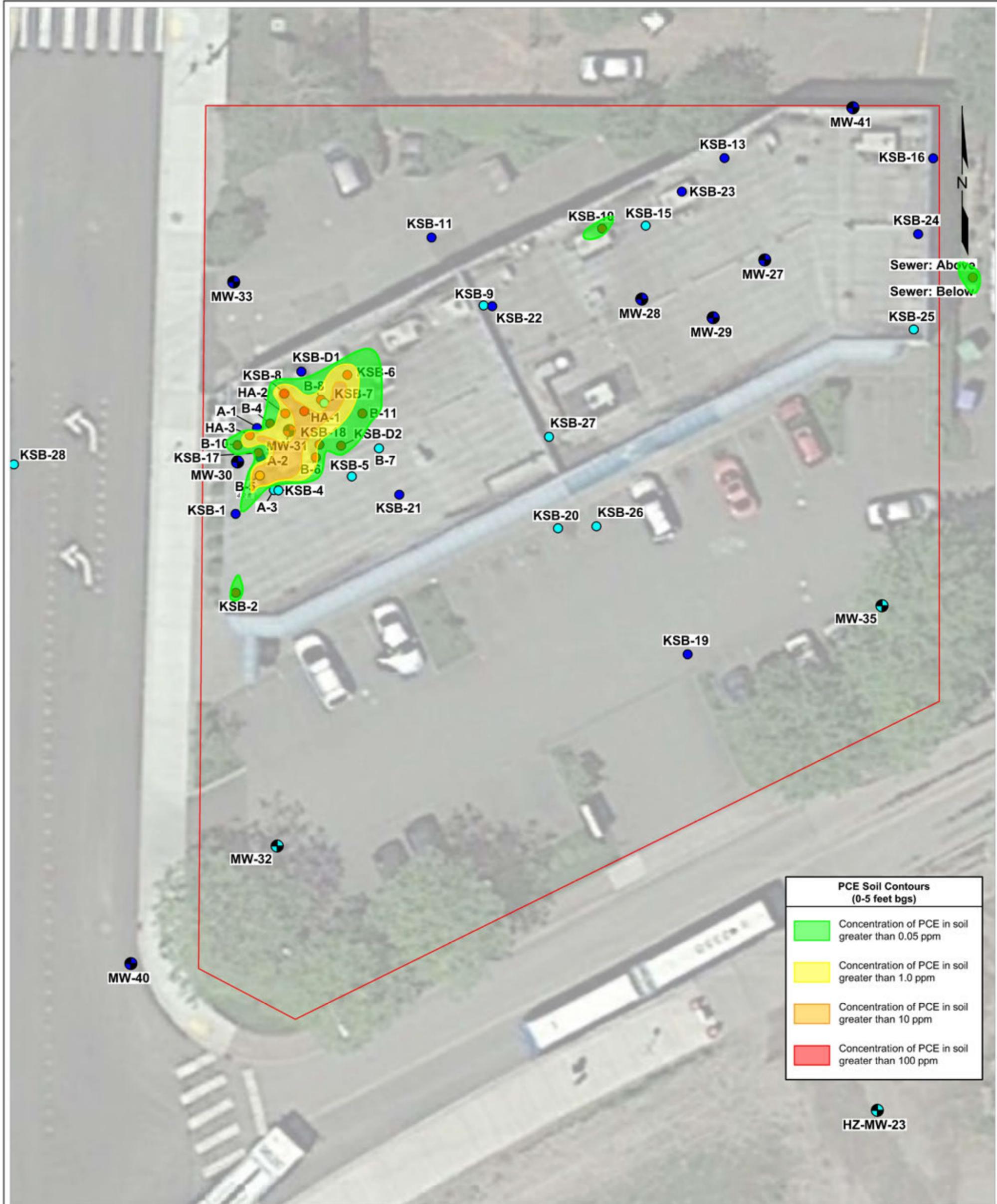
LEGEND

— BSCA Property Boundary

- Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Monitoring well soil sample location with concentration above MTCA Method A cleanup level
- Monitoring well soil sample location with concentration below MTCA Method A cleanup level
- Monitoring well soil sample location with nondetectable concentration
- Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Soil sample location with concentration above MTCA cleanup level
- Soil sample location with concentration below MTCA cleanup level
- Soil sample location with nondetectable concentration

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016



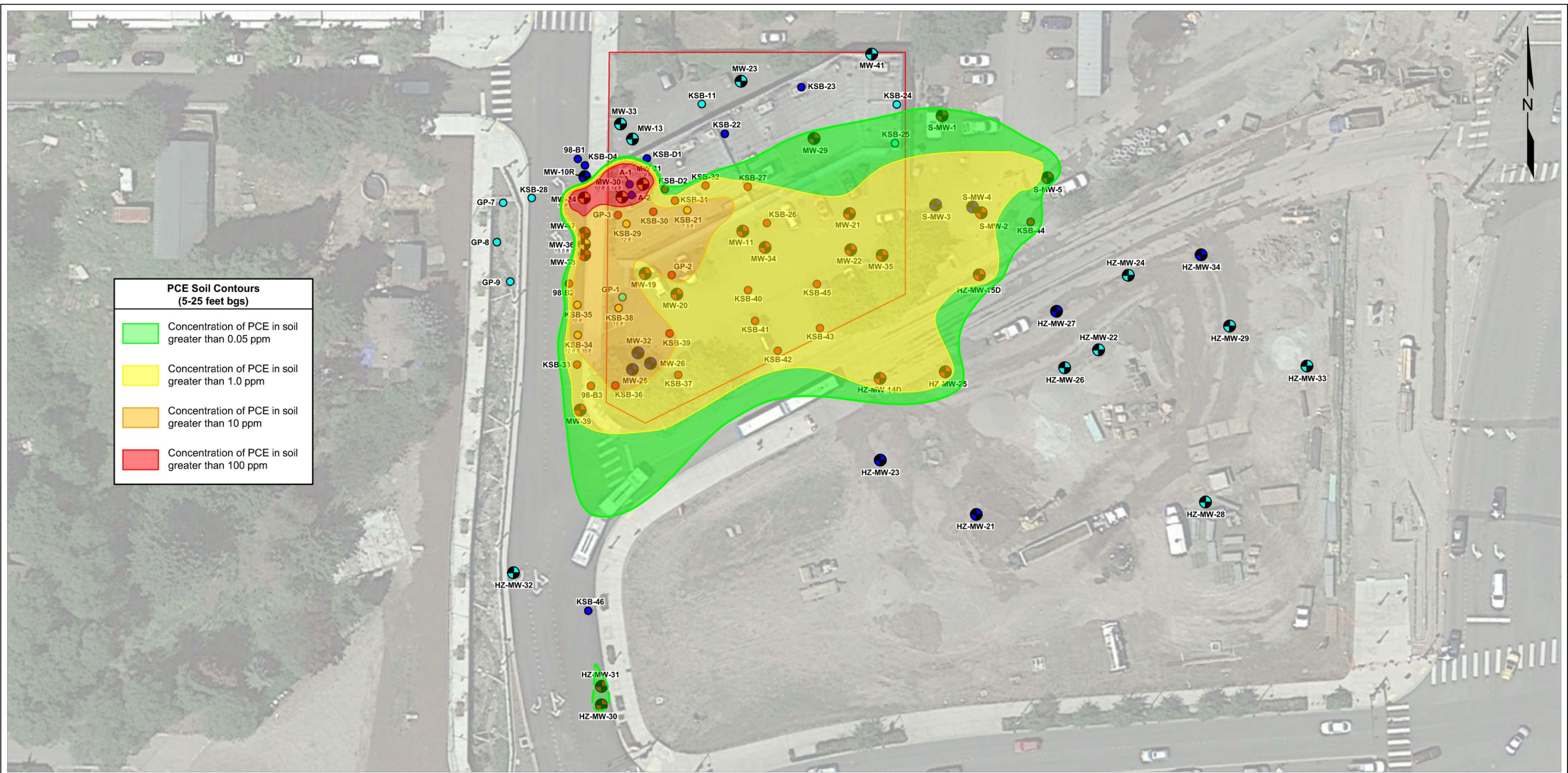


LEGEND

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016

- BSCA Property Boundary
- Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Monitoring well soil sample location with concentration above MTCA Method A cleanup level
- Monitoring well soil sample location with concentration below MTCA Method A cleanup level
- Monitoring well soil sample location with nondetectable concentration
- Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Soil sample location with concentration above MTCA cleanup level
- Soil sample location with concentration below MTCA cleanup level
- Soil sample location with nondetectable concentration





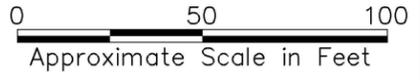
PCE Soil Contours (5-25 feet bgs)	
	Concentration of PCE in soil greater than 0.05 ppm
	Concentration of PCE in soil greater than 1.0 ppm
	Concentration of PCE in soil greater than 10 ppm
	Concentration of PCE in soil greater than 100 ppm

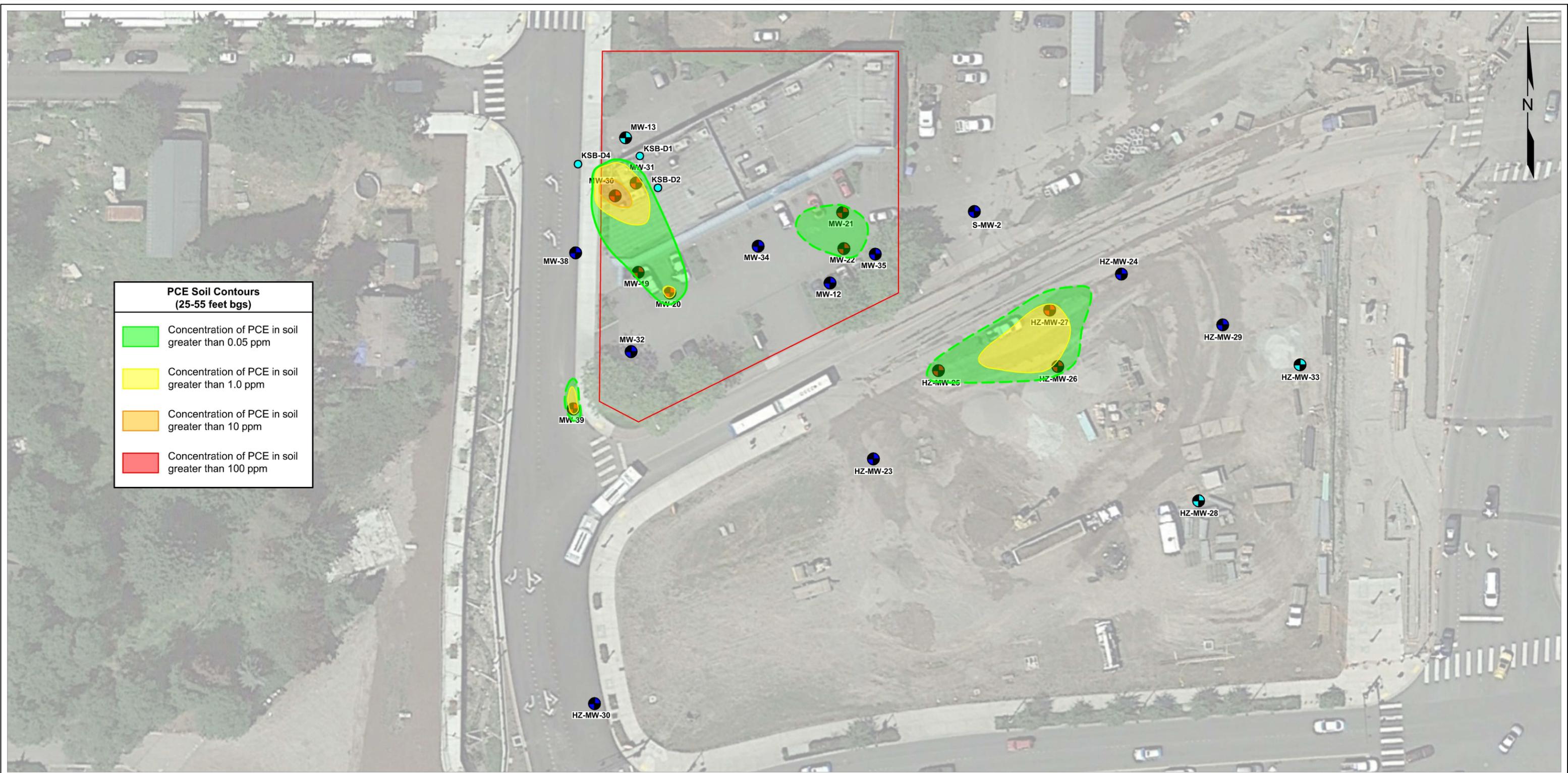
LEGEND

- BSCA Property Boundary
- Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Monitoring well soil sample location with concentration above MTCA Method A cleanup level
- Monitoring well soil sample location with concentration below MTCA Method A cleanup level
- Monitoring well soil sample location with nondetectable concentration

- Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Soil sample location with concentration above MTCA cleanup level
- Soil sample location with concentration below MTCA cleanup level
- Soil sample location with nondetectable concentration

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016





PCE Soil Contours (25-55 feet bgs)	
	Concentration of PCE in soil greater than 0.05 ppm
	Concentration of PCE in soil greater than 1.0 ppm
	Concentration of PCE in soil greater than 10 ppm
	Concentration of PCE in soil greater than 100 ppm

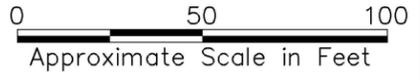
LEGEND

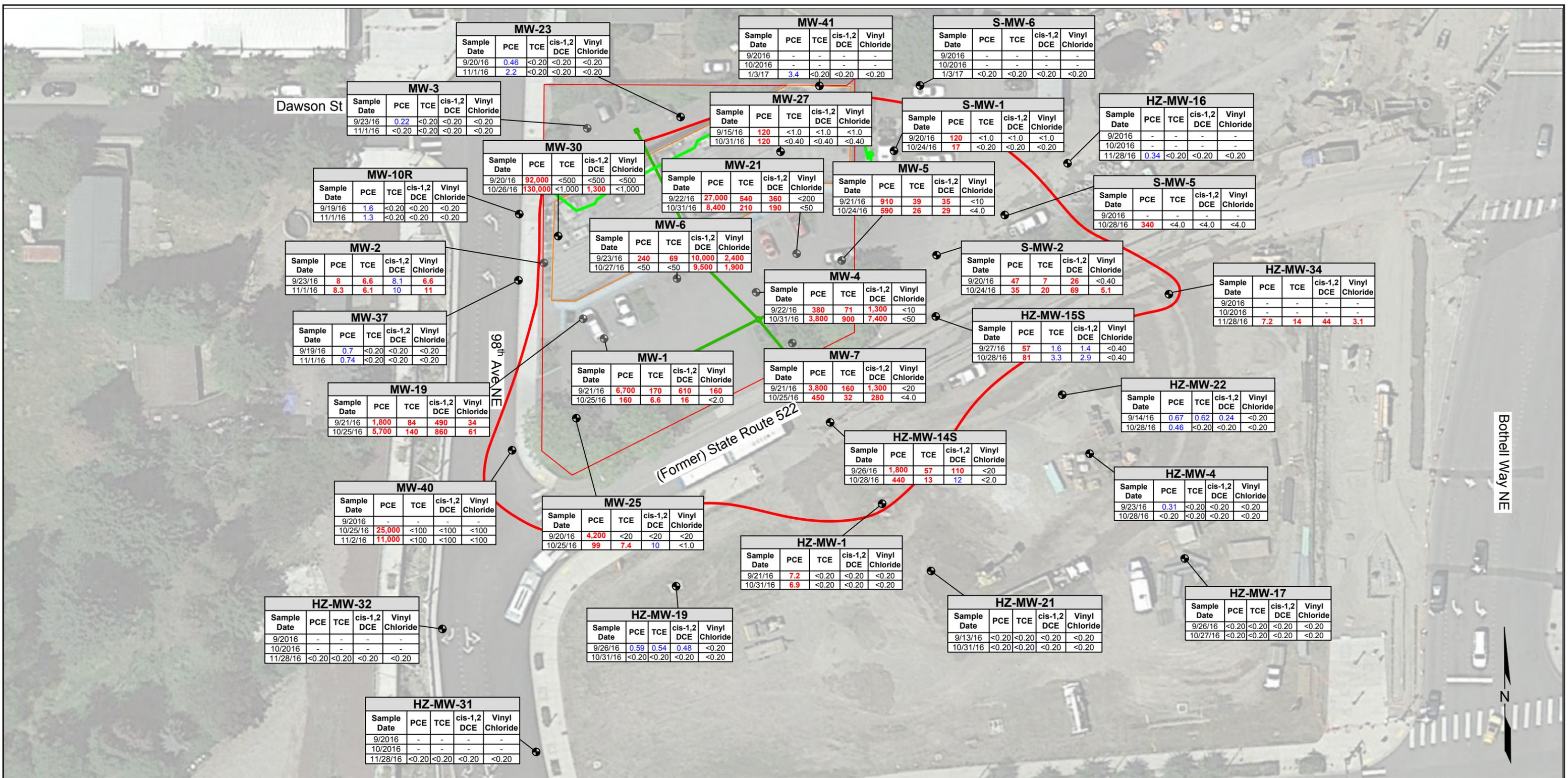
BSCA Property Boundary

- Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Monitoring well soil sample location with concentration above MTCA Method A cleanup level
- Monitoring well soil sample location with concentration below MTCA Method A cleanup level
- Monitoring well soil sample location with nondetectable concentration

- Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in *italics*)
- Soil sample location with concentration above MTCA cleanup level
- Soil sample location with concentration below MTCA cleanup level
- Soil sample location with nondetectable concentration

*Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016*





LEGEND

- BSCA Property Boundary
- Sanitary Sewer Line
- Storm Sewer Line
- Monitoring Well, Shallow (5-25 ft)
- ~ Concentration of PCE greater than 5.0 ppb

Red concentrations of PCE, TCE, (cis) 1,2-DCE, and vinyl chloride are above MTCA Method A Cleanup Levels.

Blue concentrations of PCE, TCE, (cis) 1,2-DCE, and vinyl chloride are below MTCA Method A Cleanup Levels.

Black concentrations of PCE, TCE, (cis) 1,2-DCE and vinyl chloride are below the laboratory reporting limit.

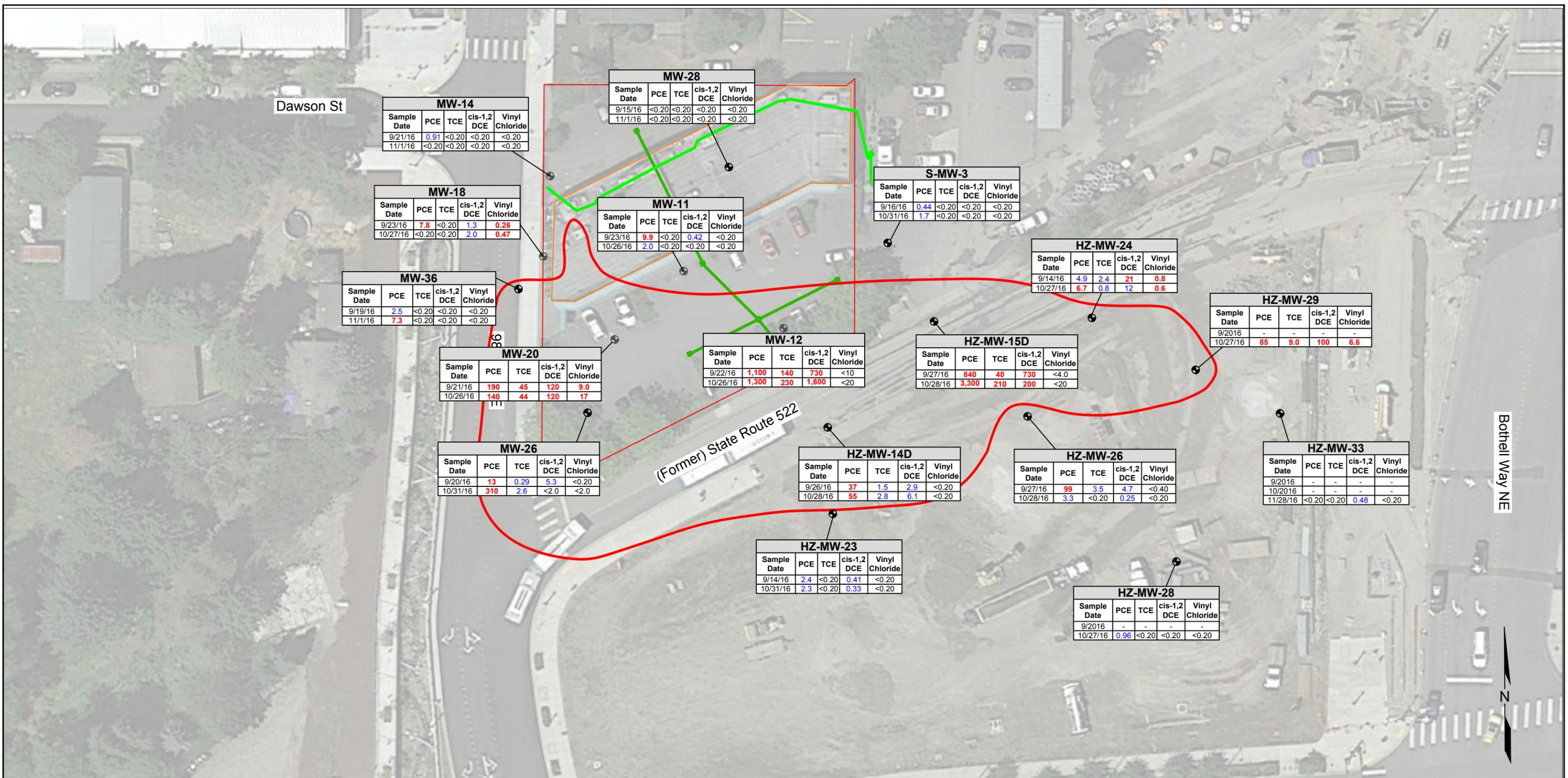
Cleanup Levels:

- Tetrachloroethene (PCE) 5.0 ppb
- Trichloroethene (TCE) 5.0 ppb
- (cis) 1,2-Dichloroethene (DCE) 16.0 ppb
- Vinyl Chloride 0.2 ppb

Groundwater concentrations are listed in parts per billion (ppb).
- = Not Sampled

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016

0 50 100
Approximate Scale in Feet



LEGEND

- BSCA Property Boundary
- Sanitary Sewer Line
- Storm Sewer Line
- Monitoring Well, Intermediate (25-35 ft)
- ~ Concentration of PCE greater than 5.0 ppb

Red concentrations of PCE, TCE, (cis) 1,2-DCE, and vinyl chloride are above MTCA Method A Cleanup Levels.

Blue concentrations of PCE, TCE, (cis) 1,2-DCE, and vinyl chloride are below MTCA Method A Cleanup Levels.

Black concentrations of PCE, TCE, (cis) 1,2-DCE and vinyl chloride are below the laboratory reporting limit.

Cleanup Levels:

- Tetrachloroethene (PCE) 5.0 ppb
- Trichloroethene (TCE) 5.0 ppb
- (cis) 1,2-Dichloroethene (DCE) 16.0 ppb
- Vinyl Chloride 0.2 ppb

Groundwater concentrations are listed in parts per billion (ppb).
 - = Not Sampled

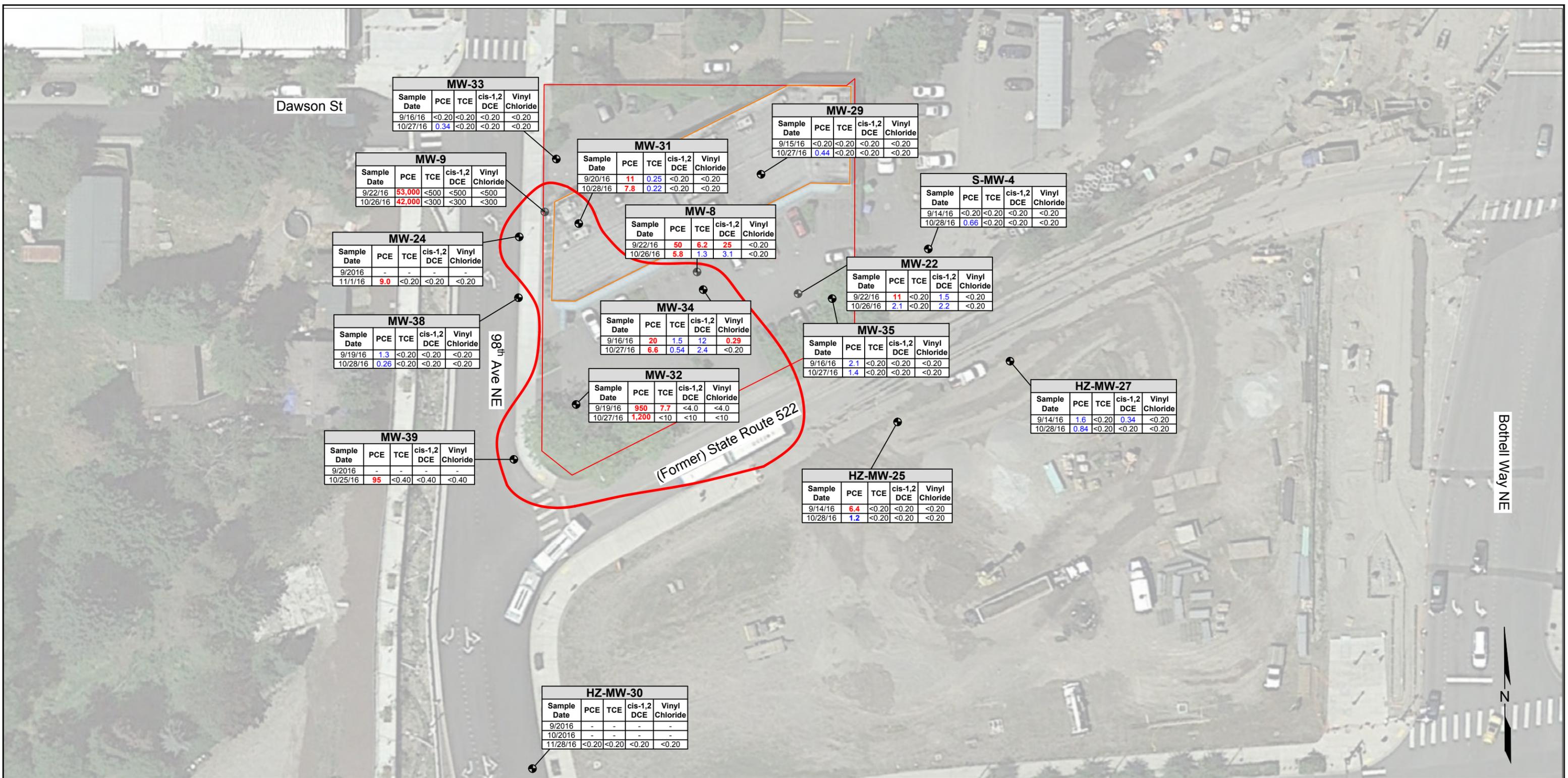
Aerial Photo Source: Google Earth Pro
 Aerial Photo Date: June 27, 2016

0 50 100
 Approximate Scale in Feet



DRAFT RI/FS
 Bothell Service Center
 18107 Bothell Way NE
 Bothell, Washington

Figure 23
 Groundwater HVOC
 Concentrations,
 Intermediate (25-35 ft)



LEGEND

- BSCA Property Boundary
- Sanitary Sewer Line
- Storm Sewer Line
- Monitoring Well, Deep (35-55 ft)
- Concentration of PCE greater than 5.0 ppb

Red concentrations of PCE, TCE, (cis) 1,2-DCE, and vinyl chloride are above MTCA Method A Cleanup Levels.

Blue concentrations of PCE, TCE, (cis) 1,2-DCE, and vinyl chloride are below MTCA Method A Cleanup Levels.

Black concentrations of PCE, TCE, (cis) 1,2-DCE and vinyl chloride are below the laboratory reporting limit.

Cleanup Levels:

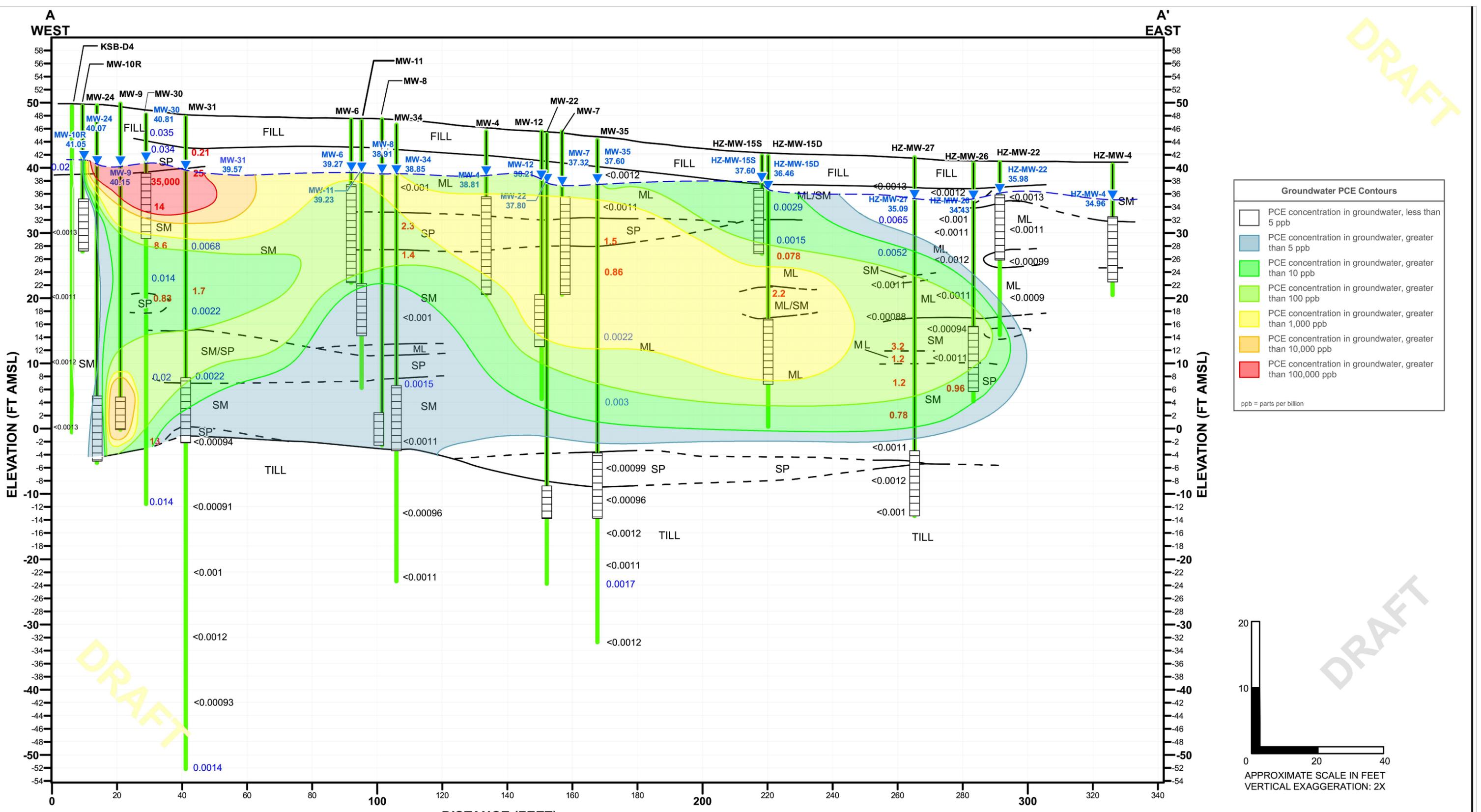
- Tetrachloroethene (PCE) 5.0 ppb
- Trichloroethene (TCE) 5.0 ppb
- (cis) 1,2-Dichloroethene (DCE) 16.0 ppb
- Vinyl Chloride 0.2 ppb

Groundwater concentrations are listed in parts per billion (ppb).
 - = Not Sampled

Aerial Photo Source: Google Earth Pro
 Aerial Photo Date: June 27, 2016

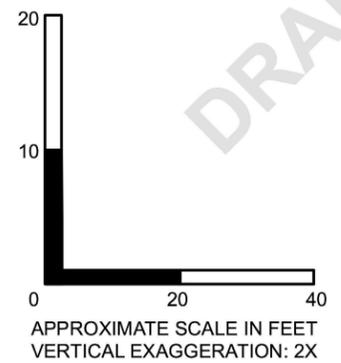
0 50 100
 Approximate Scale in Feet

DRAFT



Groundwater PCE Contours	
[White box]	PCE concentration in groundwater, less than 5 ppb
[Blue box]	PCE concentration in groundwater, greater than 5 ppb
[Green box]	PCE concentration in groundwater, greater than 10 ppb
[Light Green box]	PCE concentration in groundwater, greater than 100 ppb
[Yellow box]	PCE concentration in groundwater, greater than 1,000 ppb
[Orange box]	PCE concentration in groundwater, greater than 10,000 ppb
[Red box]	PCE concentration in groundwater, greater than 100,000 ppb

ppb = parts per billion



DRAFT

EXPLANATION

- GROUNDWATER ELEVATION (FT MSL) (NOVEMBER 14, 2016)
 - LITHOLOGIC CONTACT; DASHED WHERE INFERRED
 - WELL: BLANK CASING, SCREENED CASING
 - SOIL BORING
- SEE FIGURE 4 FOR CROSS SECTION LOCATION

NOTES:

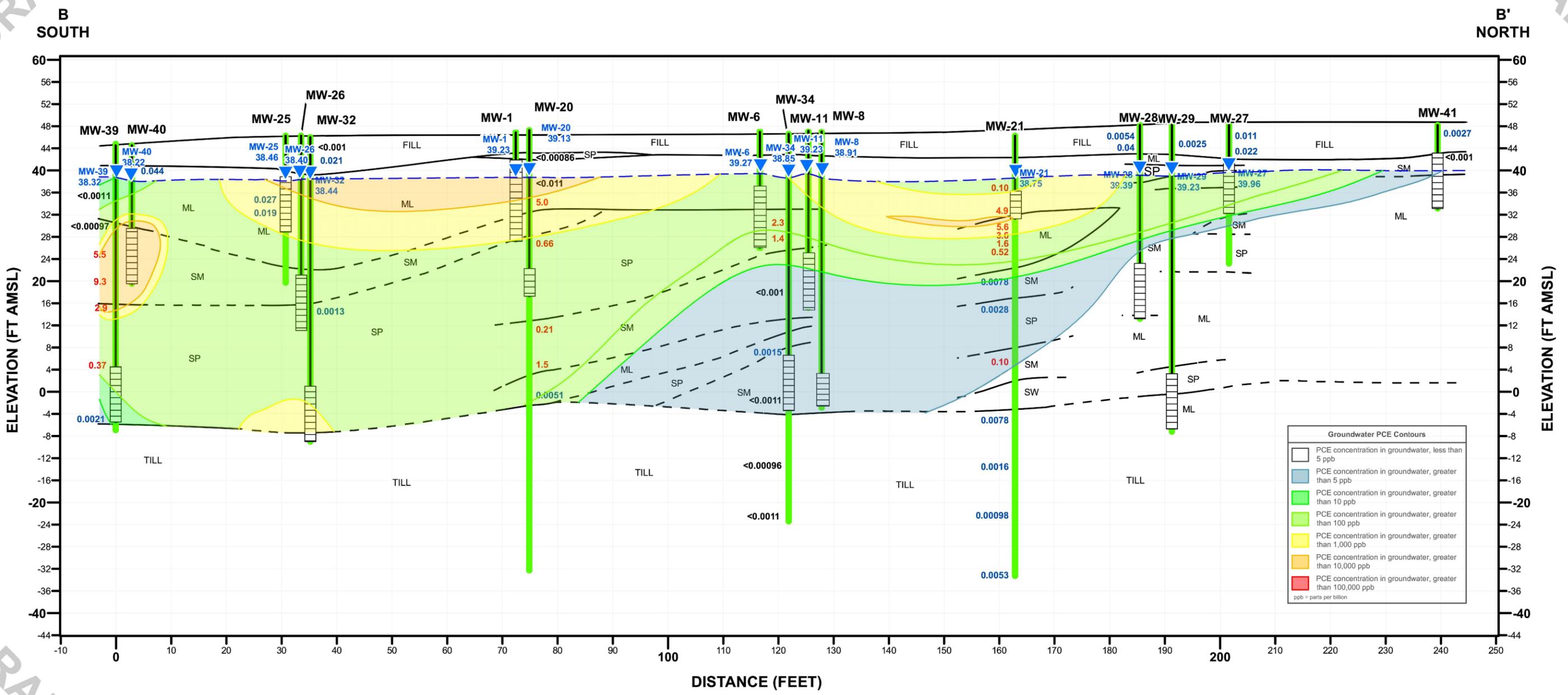
- MONITORING WELLS GAUGED ON 11/14/2016
- FT AMSL = FEET ABOVE MEAN SEA LEVEL.
- UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
 - ML - SILT, CLAYEY SILTS
 - SM - SILTY SANDS, SAND-SILT MIXTURES
 - SP - POORLY GRADED SANDS, GRAVELLY SANDS
 - SW - WELL GRADED SANDS, GRAVELLY SANDS
 - GP - POORLY GRADED GRAVELS, GRAVEL SAND MIXTURES
 - GW - WELL GRADED GRAVELS, GRAVEL SAND MIXTURES
- SOIL ANALYTICAL RESULTS ARE PRESENTED IN MG/KG [PARTS PER MILLION (PPM)]
- RED** SOIL RESULTS ARE GREATER THAN MTCA METHOD A CLEANUP LEVELS
- BLUE** SOIL RESULTS ARE BELOW MTCA METHOD A CLEANUP LEVELS
- BLACK** SOIL RESULTS ARE BELOW THE LABORATORY REPORTING LIMIT



FIGURE 25
GROUNDWATER CROSS SECTION A-A'
DRAFT RI/FS
BOTHELL SERVICE CENTER
18107 BOTHELL WAY NE
BOTHELL, WASHINGTON

DRAFT

DRAFT



Groundwater PCE Contours	
[White box]	PCE concentration in groundwater, less than 5 ppb
[Light blue box]	PCE concentration in groundwater, greater than 5 ppb
[Green box]	PCE concentration in groundwater, greater than 10 ppb
[Yellow box]	PCE concentration in groundwater, greater than 100 ppb
[Orange box]	PCE concentration in groundwater, greater than 1,000 ppb
[Red box]	PCE concentration in groundwater, greater than 10,000 ppb

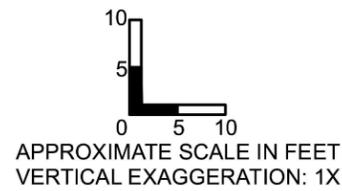
ppb = parts per billion

EXPLANATION

- ▼ GROUNDWATER ELEVATION (FT MSL) (NOVEMBER 14, 2016)
 - LITHOLOGIC CONTACT; DASHED WHERE INFERRED
 - WELL
 - BLANK CASING
 - SCREENED CASING
 - SOIL BORING
- SEE FIGURE 4 FOR CROSS SECTION LOCATION

NOTES:

- MONITORING WELLS GAUGED ON 11/14/2016
- FT AMSL = FEET ABOVE MEAN SEA LEVEL.
- UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
 - ML - SILT, CLAYEY SILTS
 - SM - SILTY SANDS, SAND-SILT MIXTURES
 - SP - POORLY GRADED SANDS, GRAVELLY SANDS
 - SW - WELL GRADED SANDS, GRAVELLY SANDS
 - GP - POORLY GRADED GRAVELS, GRAVEL SAND MIXTURES
 - GW - WELL GRADED GRAVELS, GRAVEL SAND MIXTURES
- ANALYTICAL SOIL RESULTS ARE PRESENTED IN MG/KG (PARTS PER MILLION (PPM))
 - **RED** SOIL RESULTS ARE GREATER THAN MTCA METHOD CLEANUP LEVELS
 - **BLUE** SOIL RESULTS ARE BELOW MTCA METHOD CLEANUP LEVELS
 - **BLACK** SOIL RESULTS ARE GREATER THAN MTCA METHOD CLEANUP LEVELS



 8835 Woodland Park Avenue North, Suite 102 Seattle, WA - 206-691-0475 www.kane-environmental.com	FIGURE 26 GROUNDWATER CROSS SECTION B-B'
	DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON
Drawn By: DH Checked By: CF Scale: AS SHOWN Date: 5/18/17 File: Bothell2016XsecB.mxd	

DRAFT

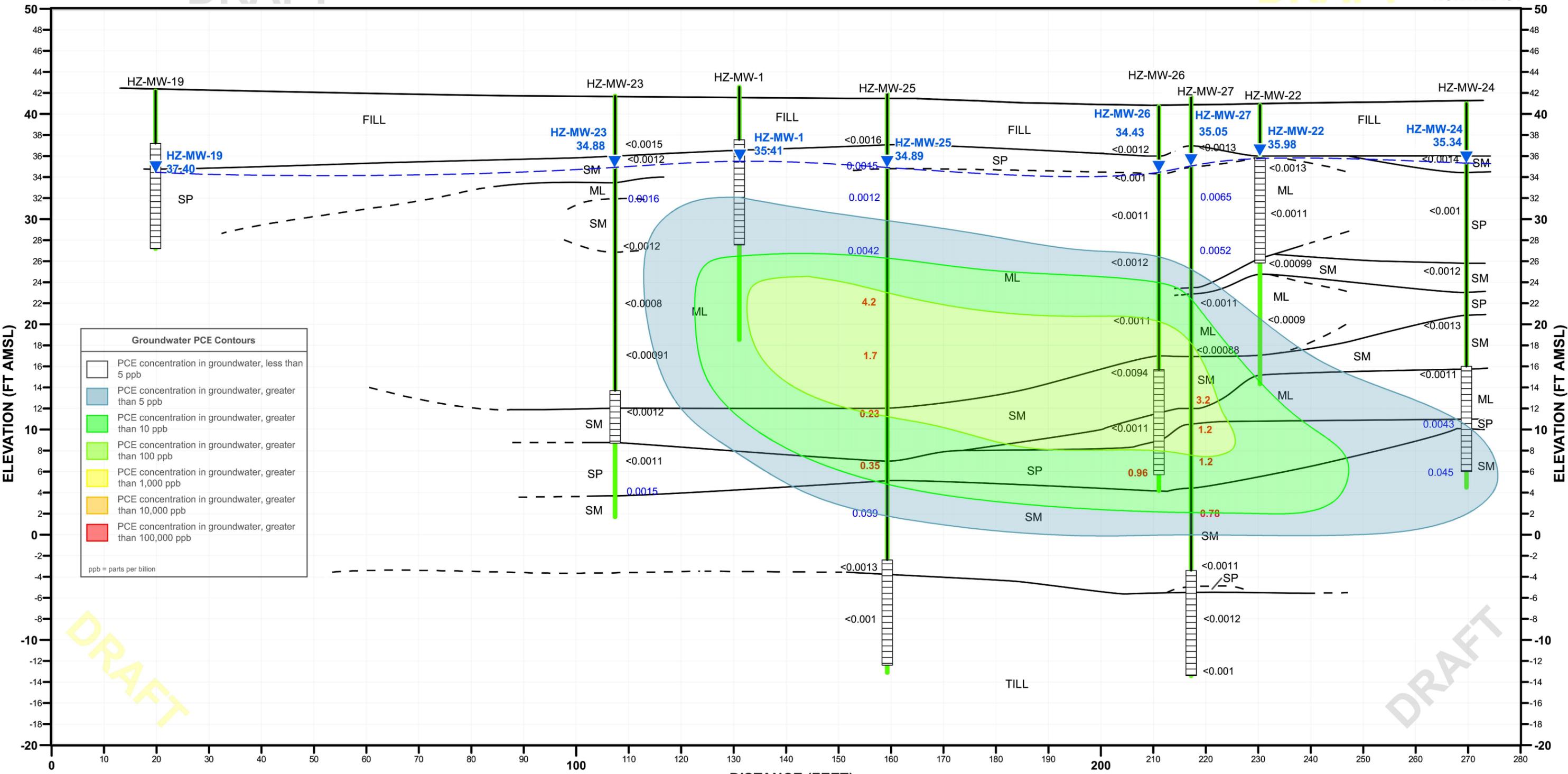
DRAFT

C
SOUTHWEST

DRAFT

DRAFT

C'
NORTHEAST



Groundwater PCE Contours	
[White box]	PCE concentration in groundwater, less than 5 ppb
[Light blue box]	PCE concentration in groundwater, greater than 5 ppb
[Light green box]	PCE concentration in groundwater, greater than 10 ppb
[Medium green box]	PCE concentration in groundwater, greater than 100 ppb
[Yellow box]	PCE concentration in groundwater, greater than 1,000 ppb
[Orange box]	PCE concentration in groundwater, greater than 10,000 ppb
[Red box]	PCE concentration in groundwater, greater than 100,000 ppb

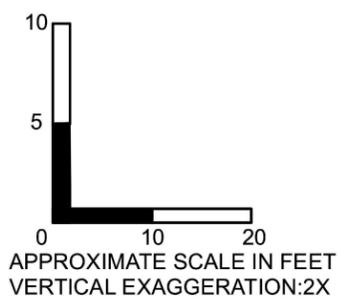
ppb = parts per billion

EXPLANATION

- ▼ GROUNDWATER ELEVATION (FT MSL) (NOVEMBER 14, 2016)
 - LITHOLOGIC CONTACT; DASHED WHERE INFERRED
 - WELL
 - BLANK CASING
 - SCREENED CASING
 - SOIL BORING
- SEE FIGURE 4 FOR CROSS SECTION LOCATION

NOTES:

- MONITORING WELLS GAUGED ON 11/14/2016
- FT AMSL = FEET ABOVE MEAN SEA LEVEL.
- UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
 - ML - SILT, CLAYEY SILTS
 - SM - SILTY SANDS, SAND-SILT MIXTURES
 - SP - POORLY GRADED SANDS, GRAVELLY SANDS
 - SW - WELL GRADED SANDS, GRAVELLY SANDS
 - GP - POORLY GRADED GRAVELS, GRAVEL SAND MIXTURES
 - GW - WELL GRADED GRAVELS, GRAVEL SAND MIXTURES
- SOIL ANALYTICAL RESULTS ARE PRESENTED IN MG/KG [PARTS PER MILLION (PPM)]
 - RED SOIL RESULTS ARE GREATER THAN MTCA METHOD A CLEANUP LEVELS
 - BLUE SOIL RESULTS ARE BELOW MTCA METHOD A CLEANUP LEVELS
 - BLACK SOIL RESULTS ARE BELOW THE LABORATORY REPORTING LIMIT



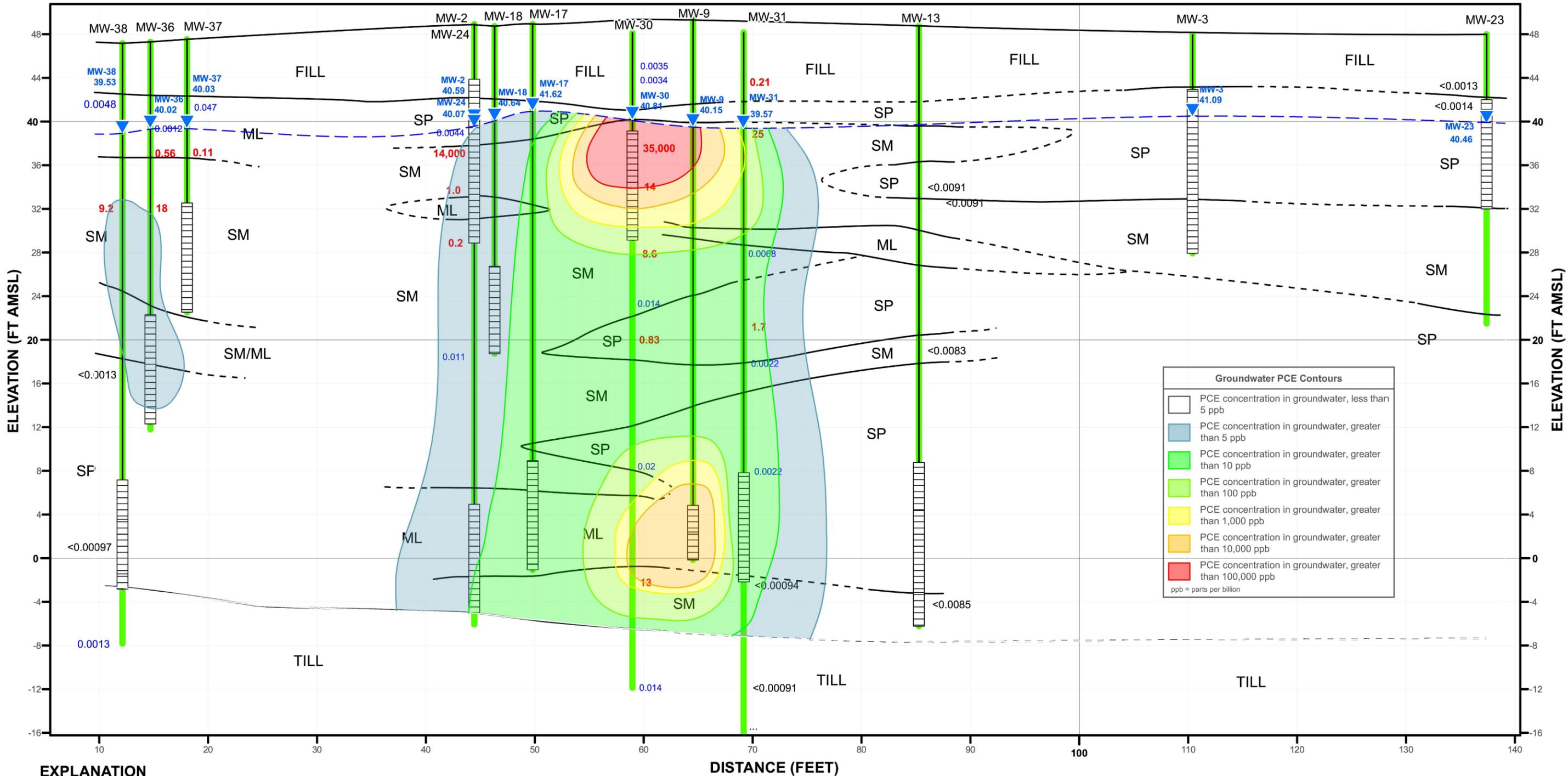
<p>3815 Woodland Park Avenue North, Suite 102 Seattle, WA - 206-691-0476 www.kane-environmental.com</p>	FIGURE 27 GROUNDWATER CROSS SECTION C-C'
	DRAFT RI/FS BOTHELL SERVICE CENTER 18107 BOTHELL WAY NE BOTHELL, WASHINGTON
Drawn By: DH Checked By: CF Scale: AS SHOWN Date: 1/5/17 File: Bothell2016XsecC.mxd	

D SOUTH

DRAFT

DRAFT

D' NORTH



Groundwater PCE Contours	
[White box]	PCE concentration in groundwater, less than 5 ppb
[Light blue box]	PCE concentration in groundwater, greater than 5 ppb
[Green box]	PCE concentration in groundwater, greater than 10 ppb
[Light green box]	PCE concentration in groundwater, greater than 100 ppb
[Yellow box]	PCE concentration in groundwater, greater than 1,000 ppb
[Orange box]	PCE concentration in groundwater, greater than 10,000 ppb
[Red box]	PCE concentration in groundwater, greater than 100,000 ppb

ppb = parts per billion

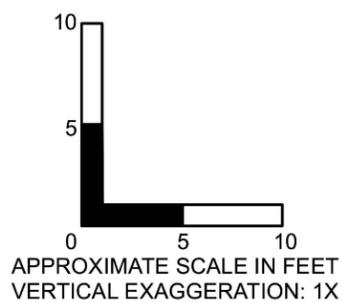
EXPLANATION

- ▼ GROUNDWATER ELEVATION (FT MSL) (NOVEMBER 14, 2016)
- LITHOLOGIC CONTACT; DASHED WHERE INFERRED
- WELL
 - BLANK CASING
 - SCREENED CASING
- SOIL BORING

NOTES:

- MONITORING WELLS GAUGED ON 11/14/2016
- FT AMSL = FEET ABOVE MEAN SEA LEVEL.
- UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
 - ML - SILT, CLAYEY SILTS
 - SM - SILTY SANDS, SAND-SILT MIXTURES
 - SP - POORLY GRADED SANDS, GRAVELLY SANDS
 - SW - WELL GRADED SANDS, GRAVELLY SANDS
 - GP - POORLY GRADED GRAVELS, GRAVEL SAND MIXTURES
 - GW - WELL GRADED GRAVELS, GRAVEL SAND MIXTURES
- ANALYTICAL SOIL RESULTS ARE PRESENTED IN MG/KG (PARTS PER MILLION (PPM))
 - RED SOIL RESULTS ARE GREATER THAN MTCA METHOD CLEANUP LEVELS
 - BLUE SOIL RESULTS ARE BELOW MTCA METHOD CLEANUP LEVELS
 - BLACK SOIL RESULTS ARE GREATER THAN MTCA METHOD CLEANUP LEVELS

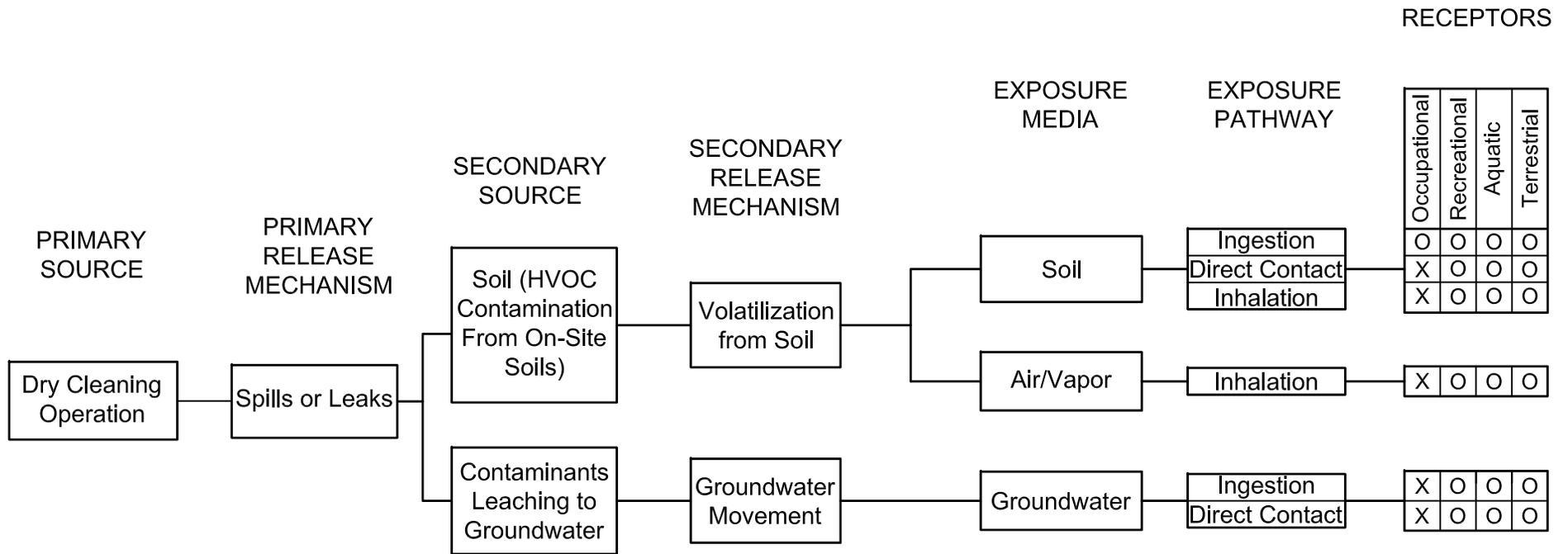
SEE FIGURE 4 FOR CROSS SECTION LOCATION



DRAFT



FIGURE 28
GROUNDWATER CROSS SECTION D-D'
DRAFT RI/FS
BOTHELL SERVICE CENTER
18107 BOTHELL WAY NE
BOTHELL, WASHINGTON



LEGEND

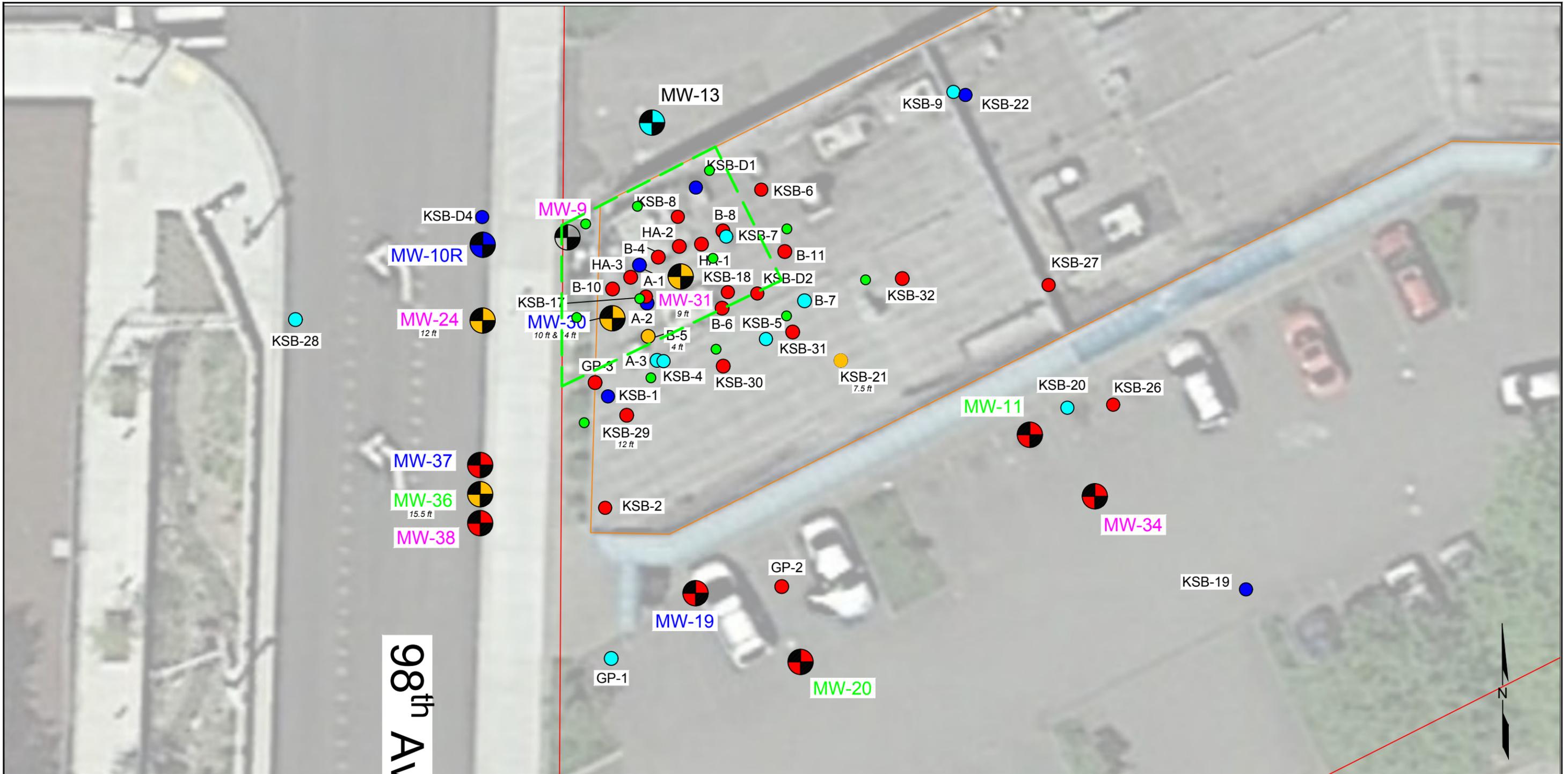
X - Complete
O - Incomplete



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Bothell Service Center
18107 Bothell Way NE
Bothell, WA

Figure 29
Conceptual Site Model

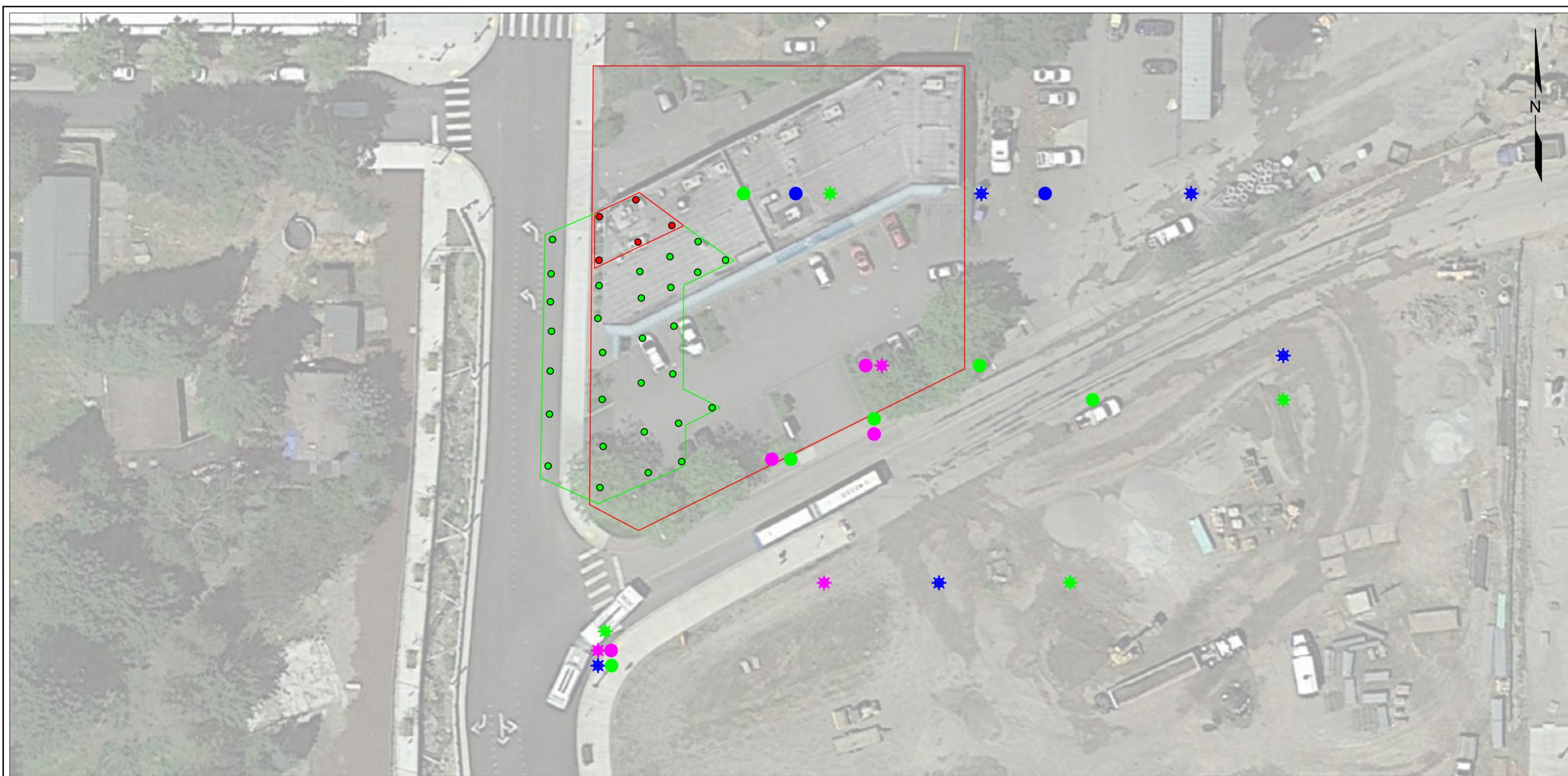


LEGEND

- | | | | | |
|---|--|---|---|---|
| <ul style="list-style-type: none"> BSCA Property Boundary Monitoring well with no soil data | <ul style="list-style-type: none"> MW Decommissioned Monitoring Well MW Existing Monitoring Well, Shallow (5-25ft) MW Existing Monitoring Well, Intermediate (25-35 ft) MW Existing Monitoring Well, Deep (35+ ft) | <ul style="list-style-type: none"> Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in <i>italics</i>) Monitoring well soil sample location with concentration above MTCA Method A cleanup level Monitoring well soil sample location with concentration below MTCA Method A cleanup level Monitoring well soil sample location with nondetectable concentration | <ul style="list-style-type: none"> Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in <i>italics</i>) Soil sample location with concentration above MTCA cleanup level Soil sample location with concentration below MTCA cleanup level Soil sample location with nondetectable concentration | <ul style="list-style-type: none"> Proposed Extent of Excavation to 15 feet bgs. Proposed Bioremediation Injection Location |
|---|--|---|---|---|

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016



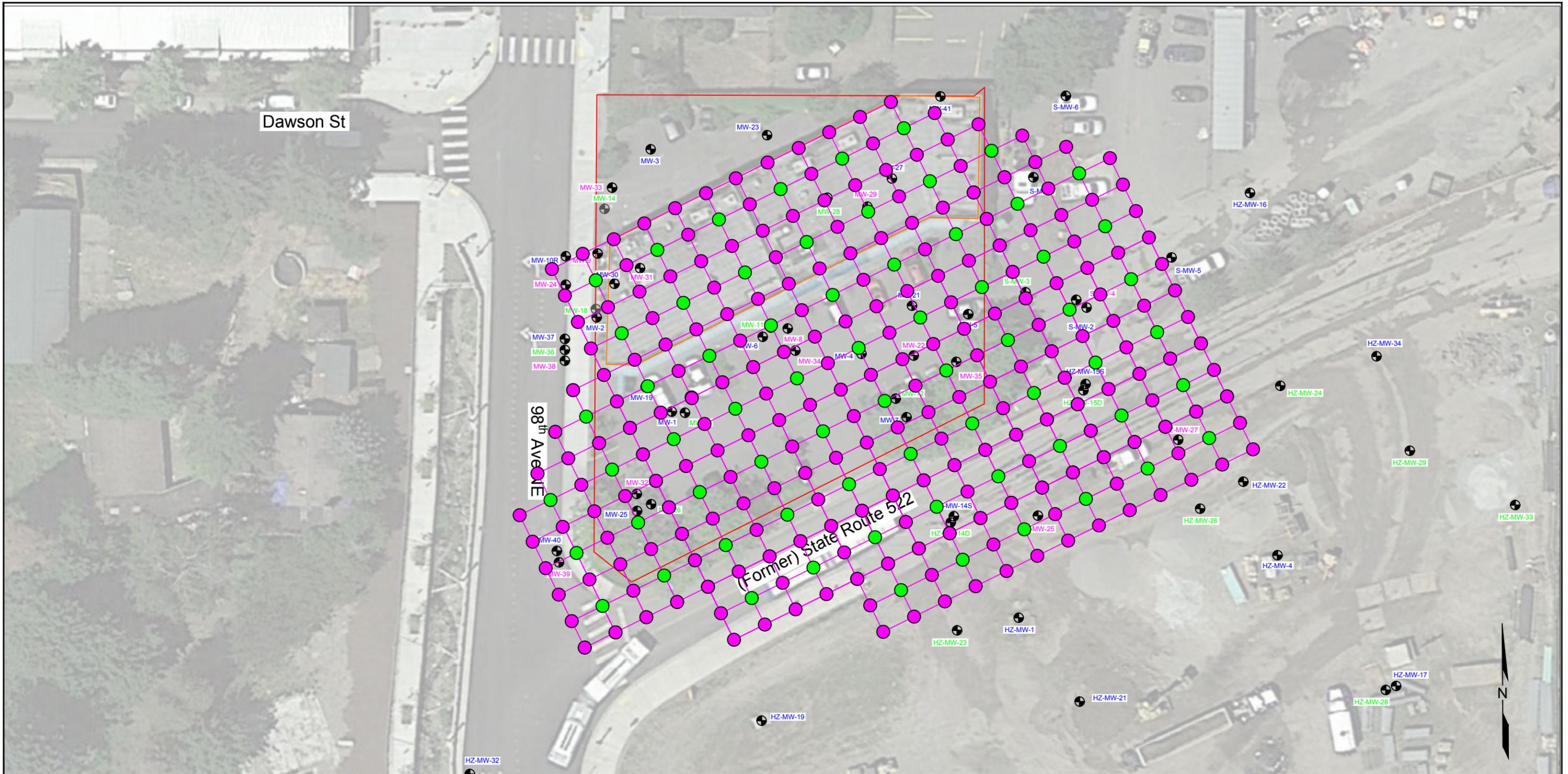


LEGEND

- BSCA Property Boundary
- Approximate Location of ERH Probe (5-25 ft bgs)
- Approximate Location of ERH Probe (5-55 ft bgs)
- ✱ Proposed Extraction Well (Shallow 5-25 ft bgs)
- Proposed Injection Well (Shallow 5-25 ft bgs)
- ✱ Proposed Extraction Well (Intermediate 25-35 ft bgs)
- Proposed Injection Well (Intermediate 25-35 ft bgs)
- ✱ Proposed Extraction Well (Deep 35-55 ft bgs)
- Proposed Injection Well (Deep 35-55 ft bgs)

*Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016*





LEGEND

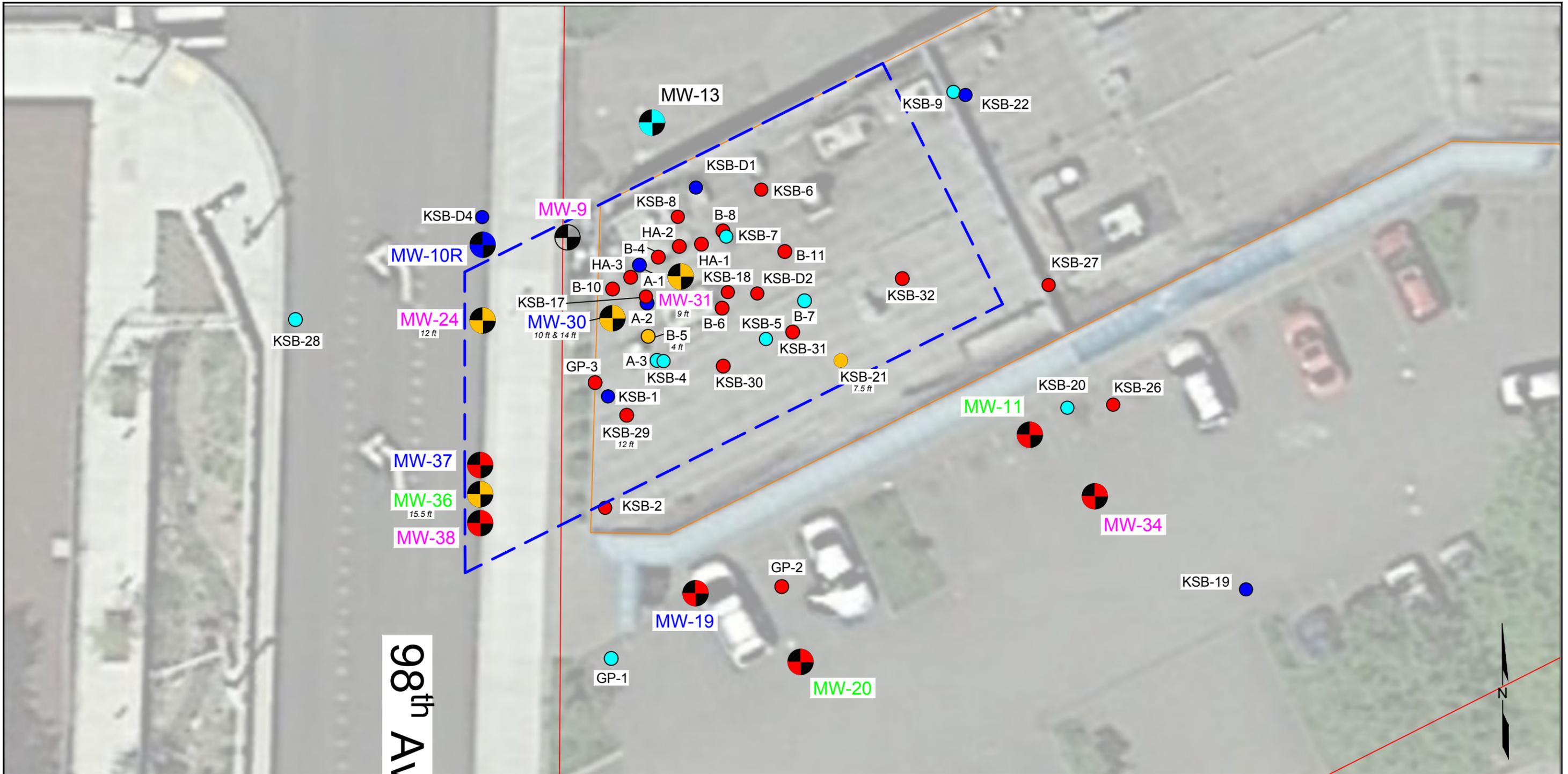
— BSCA Property Boundary

-  MW-1 Monitoring Well, Shallow (5-25ft)
-  MW-2 Monitoring Well, Intermediate (25-35 ft)
-  MW-3 Monitoring Well, Deep (35-55 ft)

-  Proposed Soil Vapor Extraction (SVE) Well
-  Proposed Air Sparging Well

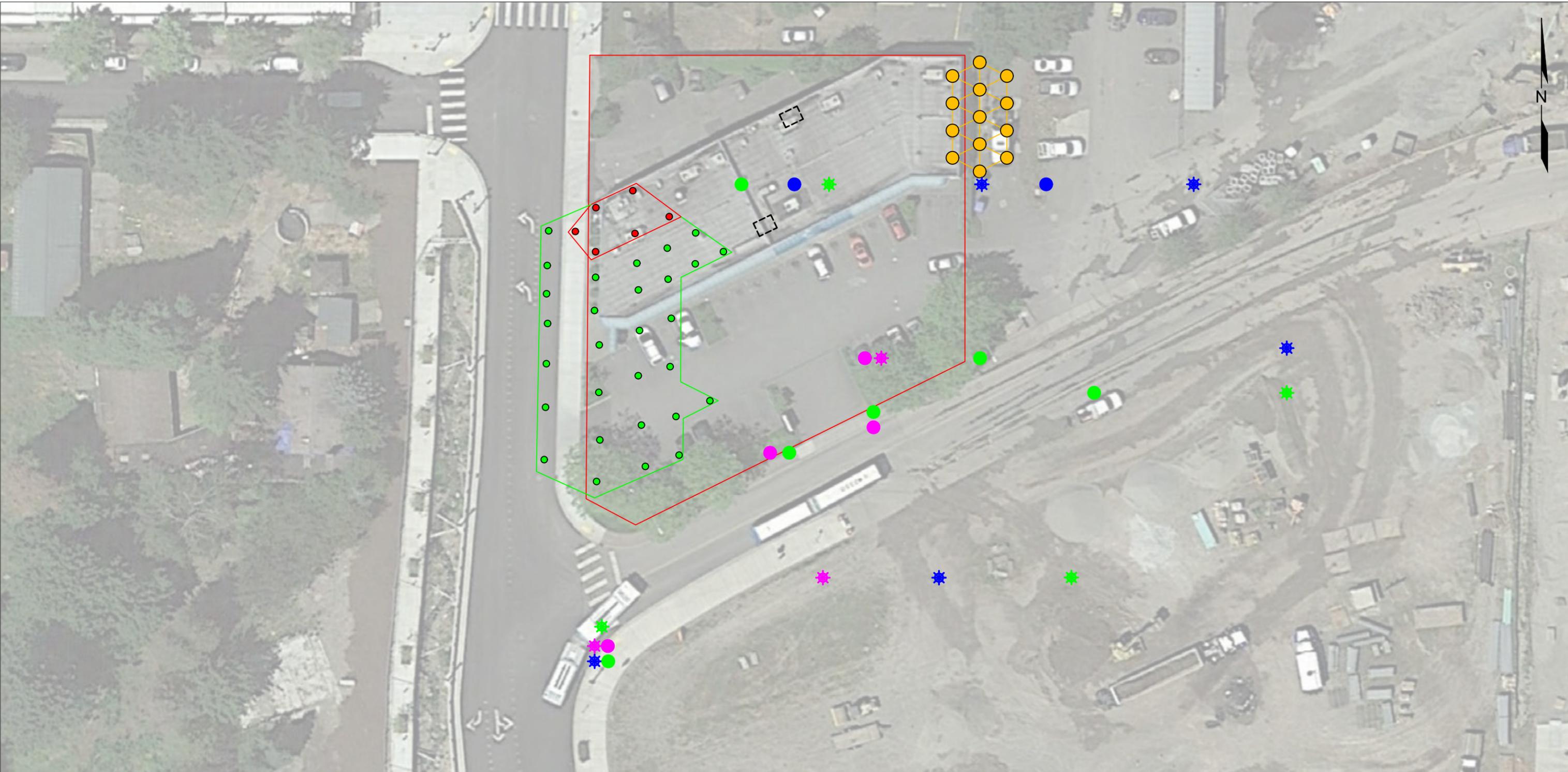
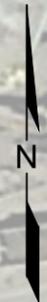
Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016

0 40 80
Approximate Scale in Feet



LEGEND

- | | | | | | |
|---|--|---|---|--|--|
| <ul style="list-style-type: none"> BSCA Property Boundary Monitoring well with no soil data | <ul style="list-style-type: none"> MW Decommissioned Monitoring Well MW Existing Monitoring Well, Shallow (5-25ft) MW Existing Monitoring Well, Intermediate (25-35 ft) MW Existing Monitoring Well, Deep (35+ ft) | <ul style="list-style-type: none"> Monitoring well soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in <i>italics</i>) Monitoring well soil sample location with concentration above MTCA Method A cleanup level Monitoring well soil sample location with concentration below MTCA Method A cleanup level Monitoring well soil sample location with nondetectable concentration | <ul style="list-style-type: none"> Soil sample location with PCE concentration above RCRA Dangerous Waste Designation (14.0 ppm or greater, depth listed in <i>italics</i>) Soil sample location with concentration above MTCA cleanup level Soil sample location with concentration below MTCA cleanup level Soil sample location with nondetectable concentration | <ul style="list-style-type: none"> Proposed Extent of Excavation to 55 feet bgs. | <p style="text-align: right;"><small>Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016</small></p> <p style="text-align: center;">0 15 30
Approximate Scale in Feet</p> |
|---|--|---|---|--|--|



LEGEND

- BSCA Property Boundary
- Approximate Location of ERH Probe (5-25 ft bgs)
- Approximate Location of ERH Probe (5-55 ft bgs)
- Approximate Location of Soil Excavation
- Approximate Location of Soil Vapor Extraction (SVE) Well
- ★ Proposed Extraction Well (Shallow 5-25 ft bgs)
- Proposed Injection Well (Shallow 5-25 ft bgs)
- ★ Proposed Extraction Well (Intermediate 25-35 ft bgs)
- Proposed Injection Well (Intermediate 25-35 ft bgs)
- ★ Proposed Extraction Well (Deep 35-55 ft bgs)
- Proposed Injection Well (Deep 35-55 ft bgs)

Aerial Photo Source: Google Earth Pro
Aerial Photo Date: June 27, 2016



DRAFT

Tables

**Table 1
Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2-DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
HA-1	HA-1-1	12/13/99	ERM	1.0	0.283		ND		
HA-2	HA-2-2	12/13/99	ERM	2.0	1.16		ND		
HA-3	HA-3-1.5	12/13/99	ERM	1.5	6.75		ND		
B-4	B-4-3.5	6/8/00	ERM	3.5	0.842		ND		
B-5	B-5-4.2	6/8/00	ERM	4.2	36.5		ND		
B-6	B-6-4.0	6/8/00	ERM	4.0	1.19		ND		
B-7	B-7-3.0	6/8/00	ERM	3.0	ND		0.205		
B-8	B-8-3.0	6/8/00	ERM	3.0	2.04		ND		
B-10	B-10-3.5	6/8/00	ERM	3.5	0.119		ND		
B-11	B-11-2.5	6/8/00	ERM	2.5	0.517		ND		
GP-1	GP-1-6.0	7/31/00	ERM	6.0	ND		ND		
GP-2	GP-2-7.0	7/31/00	ERM	7.0	0.273		ND		
GP-3	GP-3-9.0	7/31/00	ERM	9.0	1.21		ND		
MW-11	MW-11-21	11/5/07	Farallon	21.0	0.074	<0.0090	<0.0090		
MW-12	MW-12-32.5	11/5/07	Farallon	32.5	0.0053	<0.0090	<0.0090		
MW-13	MW-13-17.5	11/6/07	Farallon	17.5	<0.0091	<0.0091	<0.0091		
	MW-13-32.5	11/6/07	Farallon	32.5	<0.0083	<0.0083	<0.0083		
	MW-13-55	11/6/07	Farallon	55.0	<0.0085	<0.0085	<0.0085		
GP-7	GP-7	10/26/12	Shannon & Wilson	8.5	ND				
GP-8	GP-8	10/26/12	Shannon & Wilson	8.5	ND				
GP-9	GP-9	10/26/12	Shannon & Wilson	9.0	ND				
HZ-MW-14D	HZ-MW14D-7.5	3/1/13	HWA	7.5 - 8.5	0.0012	< 0.00099	< 0.00099	<0.0010	<0.0010
	HZ-MW14D-10	3/1/13	HWA	10 - 11	1	0.0094	0.0046	<0.0010	<0.0010
	HZ-MW14D-15	3/1/13	HWA	15 - 16	9.3	0.15	0.062	<0.0010	<0.0010
	HZ-MW14D-20	3/1/13	HWA	20 - 21	1.2	0.027	0.02	<0.0010	<0.0010
HZ-MW-15D	HZ-MW15D-7.5	3/1/13	HWA	7.5 - 8.5	0.0029	<0.0010	<0.0010	<0.0010	<0.0010
	HZ-MW15D-12.5	3/1/13	HWA	12.5 - 13.5	0.0015	<0.0011	<0.0011	<0.0010	<0.0010
	HZ-MW15D-15	3/1/13	HWA	15 - 16	0.078	<0.0010	0.0097	<0.0010	<0.0010
	HZ-MW15D-20	3/1/13	HWA	20 - 21	2.2	0.085	0.009	<0.0010	<0.0010
98-B1	98-B1-8	5/28/14	HWA	8	0.005	<0.0011	<0.0011	<0.0011	<0.0011
98-B2	98-B2-8	5/28/14	HWA	8	0.25	0.095	0.23	<0.0013	<0.0013
98-B3	98-B3-8	5/28/14	HWA	8	0.17	0.021	0.03	<0.0010	<0.0010
A-1 / Int B-1	A-1 / Int B-1-4	10/23/15	HWA	4-5	0.0013	<0.0010	<0.0010	<0.0010	<0.0010
	A-1 / Int B-1-6	10/23/15	HWA	6-7	0.0069	<0.00091	<0.00091	<0.00091	<0.00091
A-2 / Int B-2	A-2 / Int B-2-4	10/23/15	HWA	4-5	0.0083	0.0012	<0.0010	<0.0010	<0.0010
	A-2 / Int B-2-5	10/23/15	HWA	5-6	0.0021	<0.00093	<0.00093	<0.00093	<0.00093
A-3 / Int B-3	A-3 / Int B-3-2	10/24/15	HWA	2-3	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097
MW-19	MW-19-5	11/10/15	HWA	5 - 6	<0.00089	0.0013	0.0019	<0.00089	<0.00089
	MW-19-10	11/10/15	HWA	10 - 11	0.12	0.040	0.11	<0.0056	<0.0056
	MW-19-15	11/10/15	HWA	15 -16	4.1	0.037	0.059	<0.00097	0.0012
	MW-19-18	11/10/15	HWA	18 - 19	0.0079	<0.00095	<0.00095	<0.00095	<0.00095
	MW-19-21	11/10/15	HWA	21 - 22	0.8	0.0047	0.0045	<0.00096	<0.00096
	MW-19-30	11/10/15	HWA	30 - 31	0.053	0.0011	0.0016	<0.0011	<0.0011
	MW-19-40	11/10/15	HWA	40 - 41	0.0034	<0.0011	<0.0011	<0.0011	<0.0011
	MW-19-45	11/10/15	HWA	45 - 46	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
MW-20	MW-19-60	11/10/15	HWA	60 - 61	0.16	<0.00089	<0.00089	<0.00089	<0.00089
	MW-19-75	11/10/15	HWA	75 - 76	<0.00091	<0.00091	<0.00091	<0.00091	<0.00091
	MW-20-6	11/9/15	HWA	6 - 7	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	MW-20-10	11/9/15	HWA	10 - 11	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	MW-20-15	11/9/15	HWA	15 - 16	5.0	0.024	0.011	<0.0010	<0.0010
	MW-20-20	11/9/15	HWA	20 - 21	0.66	0.0049	0.0033	<0.0010	<0.0010
	MW-20-35	11/9/15	HWA	35 - 36	0.21	0.0023	0.0037	<0.0012	<0.0012
	MW-20-41	11/9/15	HWA	41 - 42	1.5	0.34	0.028	<0.0012	<0.0012
MW-21	MW-20-46	11/9/15	HWA	46 - 47	0.0051	<0.0011	0.0011	<0.0011	<0.0011
	MW-21-10	11/11/15	HWA	10 - 11	0.10	0.0020	0.0025	<0.0010	<0.0010
	MW-21-14	11/12/15	HWA	14 - 15	4.9	0.096	0.0071	<0.0011	<0.0011
	MW-21-15	11/11/15	HWA	15 - 16	5.6	0.036	0.025	<0.0011	<0.0011
	MW-21-17	11/12/15	HWA	17 - 18	3.6	0.037	0.028	<0.0010	<0.0010
	MW-21-19	11/12/15	HWA	19 - 20	1.6	0.0089	0.0060	<0.0010	<0.0010
MW-21-20	11/11/15	HWA	20 - 21	0.52	0.0040	0.0030	<0.0010	<0.0010	

**Table 1
Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2-DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
	MW-21-25	11/11/15	HWA	25 - 26	0.0078	<0.00091	<0.00091	<0.00091	<0.00091
	MW-21-30	11/11/15	HWA	30 - 31	0.028	<0.0010	<0.0010	<0.0010	<0.0010
	MW-21-41	11/11/15	HWA	41 - 42	0.10	<0.0011	<0.0011	<0.0011	<0.0011
	MW-21-50	11/11/15	HWA	50 - 51	0.0078	<0.00097	<0.00097	<0.00097	<0.00097
	MW-21-60	11/11/15	HWA	60 - 61	0.0016	<0.0011	<0.0011	<0.0011	<0.0011
	MW-21-70	11/11/15	HWA	70 - 71	0.00098	<0.00089	<0.00089	<0.00089	<0.00089
	MW-21-80	11/11/15	HWA	80 - 81	0.0053	<0.0011	<0.0011	<0.0011	<0.0011
MW-22	MW-22-5.5	11/12/15	HWA	5.5 - 6.5	0.0011	<0.0010	<0.0010	<0.0010	<0.0010
	MW-22-9.5	11/12/15	HWA	9.5 - 10.5	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	MW-22-13.5	11/12/15	HWA	13.5 - 14.5	8.4	0.46	0.31	<0.0012	<0.0012
	MW-22-15.5	11/12/15	HWA	15.5 - 16.5	9.7	0.51	0.30	<0.0011	<0.0011
	MW-22-16.5	11/12/15	HWA	16.5 - 17.5	5.5	0.33	0.34	<0.0010	<0.0010
	MW-22-21.5	11/12/15	HWA	21.5 - 22.5	0.064	0.0012	<0.0010	<0.0010	<0.0010
	MW-22-25.5	11/12/15	HWA	25.5 - 26.5	0.0025	<0.0011	<0.0011	<0.0011	<0.0011
	MW-22-30	11/12/15	HWA	30 - 31	0.11	0.0045	0.0041	<0.0012	<0.0012
	MW-22-40	11/12/15	HWA	40 - 41	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	MW-22-46	11/12/15	HWA	46 - 47	0.011	<0.0010	<0.0010	<0.0010	<0.0010
	MW-22-49.5	11/12/15	HWA	49.5 - 50.5	0.0013	<0.0011	<0.0011	<0.0011	<0.0011
	MW-22-59.5	11/12/15	HWA	59.5 - 60.5	0.0035	<0.0010	<0.0010	<0.0010	<0.0010
KSB-1	KSB-1: 2"-20"	7/13/16	Kane	0.16 - 1.33	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-1: 36"-60"	7/13/16	Kane	3 - 5	0.043	0.024	<0.001	<0.001	<0.001
KSB-2	KSB-2: 8"-36"	7/13/16	Kane	0.66 - 3	0.10	<0.001	<0.001	<0.001	<0.001
KSB-4	KSB-4: 9"-18"	7/13/16	Kane	0.75 - 1.5	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-5	KSB-5: 7"-24"	7/13/16	Kane	0.58 - 2	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-5: 24"-36"	7/13/16	Kane	2 - 3	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-6	KSB-6: 4"-24"	7/13/16	Kane	0.33 - 2	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-6: 34"-36"	7/13/16	Kane	2.83 - 3	8.8*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-7	KSB-7: 16"-32"	7/13/16	Kane	1.33 - 2.66	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-7: 40"-48"	7/13/16	Kane	3.33 - 4	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-8	KSB-8: 6"-20"	7/13/16	Kane	0.5 - 1.66	0.46*	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-8: 20"-26"	7/13/16	Kane	1.66 - 2.16	10.8	0.96	<0.001	<0.001	<0.001
KSB-9	KSB-9: 29"-36"	7/14/16	Kane	2.42 - 3	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-10	KSB-10: 0"-12"	7/14/16	Kane	0 - 1	0.62	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-10: 36"-46"	7/14/16	Kane	3 - 3.83	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-11	KSB-11: 12"-24"	7/14/16	Kane	1 - 2	0.039	<0.001	<0.001	<0.001	<0.001
	KSB-11: 52"-60"	7/14/16	Kane	4.33 - 5	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-11: 64"-72"	7/14/16	Kane	5.33 - 6	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-13	KSB-13: 3"-12"	7/14/16	Kane	0.25 - 1	0.033	<0.02*	<0.02*	<0.02*	<0.02*
KSB-15	KSB-15: 18"-26"	7/14/16	Kane	1.5 - 2.16	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	KSB-15: 26"-36"	7/14/16	Kane	2.16 - 3	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
KSB-16	KSB-16: 12"-24"	7/14/16	Kane	1 - 2	0.033	<0.02*	<0.02*	<0.02*	<0.02*
KSB-17	KSB-17: 12in-24in	7/15/16	Kane	1 - 2	0.01	<0.001	<0.001	<0.001	<0.001
	KSB-17: 24in-36in	7/15/16	Kane	2 - 3	0.073	0.0043	<0.001	<0.001	<0.001
	KSB-17: 48in-60in	7/15/16	Kane	4 - 5	0.048	0.0035	<0.001	<0.001	<0.001
KSB-18	KSB-18: 12in-24in	7/15/16	Kane	1 - 2	0.074	0.0028	<0.001	<0.001	<0.001
KSB-19	KSB-19: 18in-30in	7/15/16	Kane	1.5 - 2.5	<0.001	<0.001	<0.001	<0.001	<0.001
	KSB-19: 48in-60in	7/15/16	Kane	4 - 5	0.0048	<0.001	<0.001	<0.001	<0.001
KSB-20	KSB-20: 6in-18in	7/15/16	Kane	0.5 - 1.5	<0.001	<0.001	<0.001	<0.001	<0.001
Sewer	Sewer:Above	7/14/16	Kane	4	0.13	<0.001	<0.001	<0.001	<0.001
	Sewer:Beneath	7/14/16	Kane	5	0.073	<0.001	<0.001	<0.001	<0.001
Water	Water-1	7/14/16	Kane	2.5	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10R	MW-10R: 6	9/15/16	Kane	6	0.0021	<0.00086	<0.00086	<0.00086	<0.00086
	MW-10R: 10	9/15/16	Kane	10	0.022	<0.0013	<0.0013	<0.0013	<0.0013
MW-23	MW-23: 5.5	8/26/16	Kane	5.5	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	MW-23: 7	8/26/16	Kane	7	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
MW-24	MW-24: 10	10/31/16	Kane	10	0.0044	<0.0012	<0.0012	<0.0012	<0.0012
	MW-24: 12	10/31/16	Kane	12	14000	2.20	<0.36	<0.36	<0.36
	MW-25:15	10/31/16	Kane	15	1.0	<0.0012	<0.0012	<0.0012	<0.0012
	MW-24: 20	10/31/16	Kane	20	0.20	<0.0013	<0.0013	<0.0013	<0.0013
	MW-24: 30	10/31/16	Kane	30	0.0110	<0.0011	<0.0011	<0.0011	<0.0011

**Table 1
Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2- DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
MW-25	MW-25: 6	8/25/16	Kane	6	0.027	0.0032	0.0016	<0.0015	<0.0015
	MW-25: 7	8/25/16	Kane	7	0.019	0.0025	<0.0013	<0.0013	<0.0013
MW-26	MW-26: 5.5	8/25/16	Kane	5.5	0.015	0.0015	<0.0012	<0.0012	<0.0012
	MW-26: 7.5	8/25/16	Kane	7.5	0.0098	<0.0012	<0.0012	<0.0012	<0.0012
MW-27	MW-27: 2.5	8/29/16	Kane	2.5	0.011	<0.001	<0.001	<0.001	<0.001
	MW-27: 5	8/29/16	Kane	5	0.022	<0.0014	<0.0014	<0.0014	<0.0014
MW-28	MW-28: 2.5	8/29/16	Kane	2.5	0.0054	<0.0015	<0.0015	<0.0015	<0.0015
	MW-28: 5	8/29/16	Kane	5	0.04	<0.0013	<0.0013	<0.0013	<0.0013
MW-29	MW-29: 3	8/30/16	Kane	3	0.0025	<0.0014	<0.0014	<0.0014	<0.0014
	MW-29: 6	8/30/16	Kane	6	0.086	<0.0011	<0.0011	<0.0011	<0.0011
MW-31	MW-31: 5	8/30/16	Kane	5	0.21	<0.0011	<0.0011	<0.0011	<0.0011
	MW-31: 9	8/30/16	Kane	9	25	0.013	0.0076	<0.0012	<0.0012
	MW-31:20	8/30/16	Kane	20	0.0068	<0.0017	<0.0017	<0.0017	<0.0017
	MW-31: 27	8/30/16	Kane	27	1.7	0.0013	<0.0011	<0.0011	<0.0011
	MW-31: 30	8/30/16	Kane	30	0.0022	<0.0013	<0.0013	<0.0013	<0.0013
	MW-31: 40	8/30/16	Kane	40	0.0022	<0.0013	<0.0013	<0.0013	<0.0013
	MW-31: 50	8/31/16	Kane	50	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094
	MW-31: 60	8/31/16	Kane	60	<0.00091	<0.00091	<0.00091	<0.00091	<0.00091
	MW-31: 70	8/31/16	Kane	70	<0.001	<0.001	<0.001	<0.001	<0.001
	MW-31: 80	8/31/16	Kane	80	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
MW-32	MW-32: 2.5-4	8/31/16	Kane	2.5-4	<0.001	<0.001	<0.001	<0.001	<0.001
	MW-32: 5-6.5	8/31/16	Kane	5-6.5	0.021	0.0024	<0.0014	<0.0014	<0.0014
	MW-32: 30-31.5	8/31/16	Kane	30-31.5	0.0013	<0.00076	<0.00076	<0.00076	<0.00076
MW-33	MW-33: 5	9/1/16	Kane	5	0.0021	<0.0015	<0.0015	<0.0015	<0.0015
	MW-33: 7.5	9/1/16	Kane	7.5	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
MW-34	MW-34: 10	9/1/16	Kane	10	<0.001	<0.001	<0.001	<0.001	<0.001
	MW-34: 16	9/1/16	Kane	16	2.3	0.087	1.3	0.0014	0.014
	MW-34: 20	9/1/16	Kane	20	1.4	0.074	0.23	<0.0011	0.0024
	MW-34: 30	9/1/16	Kane	30	<0.001	<0.001	<0.001	<0.001	<0.001
	MW-34: 40	9/1/16	Kane	40	0.0015	<0.0011	<0.0011	<0.0011	<0.0011
	MW-34: 49	9/1/16	Kane	49	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	MW-34: 60	9/1/16	Kane	60	<0.00096	<0.00096	0.021	<0.00096	<0.00096
MW-35	MW-35: 5	9/2/16	Kane	5	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	MW-35: 10	9/2/16	Kane	10	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	MW-35: 16	9/2/16	Kane	16	1.5	0.016	0.0091	<0.0011	<0.0011
	MW-35: 20	9/2/16	Kane	20	0.860	0.017	0.01	<0.00087	<0.00087
	MW-35: 30	9/2/16	Kane	30	0.0022	<0.0011	<0.0011	<0.0011	<0.0011
	MW-35: 40	9/2/16	Kane	40	0.003	<0.00095	<0.00095	<0.00095	<0.00095
	MW-35: 50	9/2/16	Kane	50	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	MW-35: 55	9/2/16	Kane	55	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096
	MW-35: 60	9/5/16	Kane	60	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	MW-35: 65	9/5/16	Kane	65	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
MW-36	MW-36: 7	9/8/16	Kane	7	0.0012	<0.0011	0.0025	<0.0011	<0.0011
	MW-36:10	9/8/16	Kane	10	0.560	0.039	0.034	<0.00099	<0.00099
	MW-36: 15.5	9/8/16	Kane	15.5	18.0	0.027	0.060	<0.00098	0.0054
MW-37	MW-37: 7.5	9/9/16	Kane	7.5	0.0470	0.0095	0.0046	<0.0012	<0.0012
	MW-37: 10	9/9/16	Kane	10	0.110	0.020	0.0047	<0.0013	<0.0013
MW-38	MW-38: 6	9/12/16	Kane	6	0.0048	<0.0012	<0.0012	<0.0012	<0.0012
	MW-38: 15	9/12/16	Kane	15	9.200	0.021	0.0031	<0.0011	<0.0011
	MW-38: 30	9/12/16	Kane	30	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	MW-38: 46	9/12/16	Kane	46	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097
	MW-38: 55	9/12/16	Kane	55	0.0013	<0.0011	<0.0011	<0.0011	<0.0011
MW-39	MW-39: 10	10/19/16	Kane	10	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	MW-39:15	10/19/16	Kane	15	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097
	MW-39: 20	10/19/16	Kane	20	5.5	0.0046	<0.00098	<0.00098	<0.00098

**Table 1
Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2-DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
	MW-39: 25	10/19/16	Kane	25	9.3	0.017	<0.00096	<0.00096	<0.00096
	MW-39: 30	10/19/16	Kane	30	2.9	0.013	<0.0011	<0.0011	<0.0011
	MW-39: 40	10/19/16	Kane	40	0.37	<0.001	<0.001	<0.001	<0.001
	MW-39: 50	10/19/16	Kane	50	0.0021	<0.0013	<0.0013	<0.0013	<0.0013
MW-40	MW-40: 5	10/20/16	Kane	5	0.044	0.0023	<0.0017	<0.0022	<0.0022
KSB-D1	KSB-D1: 4	8/25/16	Kane	4	0.0170	<0.0013	<0.0013	<0.0013	<0.0013
	KSB-D1: 9	8/25/16	Kane	9	0.0017	<0.00086	<0.00086	<0.00086	<0.00086
	KSB-D1: 20	8/25/16	Kane	20	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009
	KSB-D1: 30	8/26/16	Kane	30	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095
	KSB-D1: 40	8/26/16	Kane	40	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	KSB-D1: 50	8/26/16	Kane	50	<0.001	<0.001	<0.001	<0.001	<0.001
	KSB-D1: 55	8/26/16	Kane	55	<0.001	<0.001	<0.001	<0.001	<0.001
KSB-D2	KSB-D1: 60	8/26/16	Kane	60	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094
	KSB-D2: 2	8/25/16	Kane	2	0.1400	0.0056	<0.0011	<0.0011	<0.0011
	KSB-D2: 10	8/25/16	Kane	10	0.0500	0.0025	0.0012	<0.00093	<0.00093
	KSB-D2: 20	8/25/16	Kane	20	0.0015	<0.00095	<0.00095	<0.00095	<0.00095
	KSB-D2: 30	8/25/16	Kane	30	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	KSB-D2: 40	8/25/16	Kane	40	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-D2: 50	8/25/16	Kane	50	<0.001	<0.001	<0.001	<0.001	<0.001
KSB-D3 / MW-30	KSB-D3: 3	8/29/16	Kane	3	0.0350	<0.001	<0.001	<0.001	<0.001
	KSB-D3: 5	8/29/16	Kane	5	0.0340	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-D3: 10	8/29/16	Kane	10	35.000	4.3	<0.310	<0.310	<0.310
	KSB-D3: 14	8/29/16	Kane	14	14.0	<0.073	<0.073	<0.073	<0.073
	KSB-D3: 20	8/29/16	Kane	20	8.6	<0.058	<0.058	<0.058	<0.058
	KSB-D3: 25	8/29/16	Kane	25	0.0140	<0.0009	<0.0009	<0.0009	<0.0009
	KSB-D3: 28	8/29/16	Kane	28	0.830	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-D3: 40	8/29/16	Kane	40	0.0200	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-D3: 50	8/29/16	Kane	50	13.0	0.057	0.022	<0.0008	<0.0008
KSB-D4	KSB-D3: 60	8/29/16	Kane	60	0.0140	<0.00068	0.0014	<0.00068	<0.00068
	KSB-D4: 10	9/7/16	Kane	10	0.0200	<0.0013	<0.0013	<0.0013	<0.0013
	KSB-D4: 20	9/7/16	Kane	20	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	KSB-D4: 30	9/7/16	Kane	30	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-D4: 40	9/7/16	Kane	40	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
KSB-21	KSB-D4: 50	9/7/16	Kane	50	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	KSB-21: 2.5	10/19/16	Kane	2.5	0.0180	0.0016	<0.0011	<0.0011	<0.0011
KSB-22	KSB-21: 7.5	10/19/16	Kane	7.5	32.0	0.7100	0.3600	<0.075	<0.075
	KSB-22: 2.5	10/19/16	Kane	2.5	0.0081	<0.0013	<0.0013	<0.0013	<0.0013
KSB-23	KSB-22: 7	10/19/16	Kane	7	0.0022	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-23: 2	10/19/16	Kane	2	0.0053	<0.0011	<0.0011	<0.0015	<0.0015
KSB-24	KSB-23: 7.5	10/19/16	Kane	7.5	0.0230	<0.0015	<0.0015	<0.0015	<0.0015
	KSB-24: 2.5	10/19/16	Kane	2.5	0.0031	<0.0011	<0.0011	<0.0011	<0.0011
KSB-25	KSB-24: 7	10/19/16	Kane	7	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-25: 2	10/19/16	Kane	2	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
KSB-26	KSB-25: 7.25	10/19/16	Kane	7.25	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-26: 2	10/19/16	Kane	2	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-26: 6	10/19/16	Kane	6	<0.001	<0.001	<0.001	<0.001	<0.001
	KSB-26: 7	10/19/16	Kane	7	<0.001	<0.001	<0.001	<0.001	<0.001
KSB-27	KSB-26: 15	10/19/16	Kane	15	9.20	0.480	0.420	<0.057	<0.057
	KSB-27: 2	10/19/16	Kane	2	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-27: 7	10/19/16	Kane	7	0.0120	<0.001	<0.001	<0.001	<0.001
S-MW-1	KSB-27: 9	10/19/16	Kane	9	2.60	<0.07	<0.07	<0.07	<0.07
	S-MW-1: 6.5	8/22/16	Kane	6.5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	S-MW-1: 10-10.75	8/22/16	Kane	10-10.75	0.0270	<0.001	<0.001	<0.001	<0.001
	S-MW-1: 15-16	8/22/16	Kane	15-16	0.0960	<0.00093	<0.00093	<0.00093	<0.00093
S-MW-2	S-MW-1: 20-21	8/22/16	Kane	20-21	0.0098	<0.00098	<0.00098	<0.00098	<0.00098
	S-MW-2: 5.25-5.6	8/24/16	Kane	5.25-5.6	0.0018	<0.0011	0.0011	<0.011	<0.011
	S-MW-2: 6.5-7	8/24/16	Kane	6.5-7	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	S-MW-2: 10.5-11	8/24/16	Kane	10.5-11	0.0810	0.025	0.06	<0.0010	0.0095
	S-MW-2: 15-15.5	8/24/16	Kane	15-15.5	1.300	0.0048	0.0013	<0.001	<0.001
	S-MW-2: 20.5-21	8/24/16	Kane	20.5-21	0.8100	0.0015	<0.00089	<0.00089	<0.00089

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Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2-DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
	S-MW-2: 25-25.5	8/24/16	Kane	25-25.5	0.0028	<0.0014	<0.0014	<0.0014	<0.0014
S-MW-3	S-MW-3: 5-5.25	8/25/16	Kane	5-5.25	0.0071	0.0023	<0.0012	<0.0012	<0.0012
S-MW-4	S-MW-4: 2.5	8/30/16	Kane	2.5	0.0010	<0.0009	<0.0009	<0.0009	<0.0009
	S-MW-4: 6	8/30/16	Kane	6	0.0022	0.002	0.0036	<0.00098	<0.00098
S-MW-5	S-MW-5: 5	10/21/16	Kane	5	0.0025	<0.0012	0.0012	<0.0012	<0.0012
	S-MW-5: 10	10/21/16	Kane	10	0.10	0.0076	0.014	<0.0012	<0.0012
	S-MW-5: 20	10/21/16	Kane	20	0.99	<0.055	<0.055	<0.055	<0.055
HZ-MW-21	HZ-MW-21: 5-5.5	8/22/16	Kane	5-5.5	0.0042	<0.0013	<0.0013	<0.0013	<0.0013
	HZ-MW-21: 7-7.5	8/22/16	Kane	7-7.5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-21: 10-11	8/22/16	Kane	10-11	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-21: 15-16	8/22/16	Kane	15-16	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
HZ-MW-22	HZ-MW-21: 20.5-21	8/22/16	Kane	20.5-21	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-22: 5.2-6	8/22/16	Kane	5.2-6	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	HZ-MW-22: 10-11	8/22/16	Kane	10-11	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-22: 15-16	8/22/16	Kane	15-16	<0.00099	<0.00099	0.0014	<0.00099	<0.00099
HZ-MW-23	HZ-MW-22: 20-20.75	8/22/16	Kane	20-20.75	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009
	HZ-MW-23: 5	8/23/16	Kane	5	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	HZ-MW-23: 6.5	8/23/16	Kane	6.5	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-23: 10	8/23/16	Kane	10	0.0016	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-23: 15	8/23/16	Kane	15	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-23: 20	8/23/16	Kane	20	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
	HZ-MW-23: 25	8/23/16	Kane	25	<0.00091	<0.00091	<0.00091	<0.00091	<0.00091
	HZ-MW-23: 30	8/23/16	Kane	30	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
HZ-MW-24	HZ-MW-23: 35	8/23/16	Kane	35	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-23: 38	8/23/16	Kane	38	0.0015	<0.00095	<0.00095	<0.00095	<0.00095
	HZ-MW-24: 5.5-6	8/23/16	Kane	5.5-6	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	HZ-MW-24: 10-10.5	8/23/16	Kane	10-10.5	<0.001	<0.001	<0.001	<0.001	<0.001
	HZ-MW-24: 15.5-16.5	8/23/16	Kane	15.5-16.5	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-24: 20.5-26	8/23/16	Kane	20.5-21	<0.0013	<0.0013	0.0028	<0.0013	<0.0013
	HZ-MW-24: 25.5-26	8/23/16	Kane	25.5-26	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-24: 30-31	8/23/16	Kane	30-31	0.0043	<0.0013	<0.0013	<0.0013	<0.0013
HZ-MW-25	HZ-MW-24: 35-35.75	8/23/16	Kane	35-35.75	0.045	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-25: 5	8/23/16	Kane	5	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
	HZ-MW-25: 7	8/23/16	Kane	7	0.0015	<0.0013	<0.0013	<0.0013	<0.0013
	HZ-MW-25: 10	8/23/16	Kane	10	0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-25: 15	8/23/16	Kane	15	0.0024	<0.0014	<0.0014	<0.0014	<0.0014
	HZ-MW-25: 20	8/23/16	Kane	20	4.2	0.067	0.037	<0.0013	<0.0013
	HZ-MW-25: 25	8/23/16	Kane	25	1.7	0.0037	<0.0013	<0.0013	<0.0013
	HZ-MW-25: 30	8/23/16	Kane	30	0.23	0.0036	0.0043	<0.0011	<0.0011
	HZ-MW-25: 35	8/23/16	Kane	35	0.35	<0.001	0.0015	<0.001	<0.001
	HZ-MW-25: 40	8/23/16	Kane	40	0.039	<0.001	<0.001	<0.001	<0.001
HZ-MW-26	HZ-MW-25: 45	8/23/16	Kane	45	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	HZ-MW-25: 50	8/23/16	Kane	50	<0.001	<0.001	<0.001	<0.001	<0.001
	HZ-MW-26: 5-5.25	8/23/16	Kane	5-5.25	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-26: 6.5-7	8/23/16	Kane	6.5-7	<0.001	<0.001	<0.001	<0.001	<0.001
	HZ-MW-26: 10.5-11	8/23/16	Kane	10.5-11	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-26: 15-15.5	8/23/16	Kane	15-15.5	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-26: 20.5-21	8/23/16	Kane	20.5-21	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
HZ-MW-27	HZ-MW-26: 25.5-26	8/23/16	Kane	25.5-26	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094
	HZ-MW-26: 30.5-31	8/23/16	Kane	30.5-31	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-26: 35-35.5	8/23/16	Kane	35-35.5	0.96	0.024	0.025	<0.0012	<0.0012
	HZ-MW-27: 5	8/24/16	Kane	5	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
	HZ-MW-27: 10	8/24/16	Kane	10	0.0065	<0.0012	0.0016	<0.0012	<0.0012
	HZ-MW-27: 15	8/24/16	Kane	15	0.0052	0.0013	0.0095	<0.00095	<0.00095
	HZ-MW-27: 20	8/24/16	Kane	20	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
HZ-MW-27	HZ-MW-27: 25	8/24/16	Kane	25	<0.00088	<0.00088	<0.00088	<0.00088	<0.00088
	HZ-MW-27: 30	8/24/16	Kane	30	3.2	0.091	0.037	<0.0014	<0.0014
	HZ-MW-27: 32	8/24/16	Kane	32	1.2	0.015	0.013	<0.00098	<0.00098
	HZ-MW-27: 35	8/24/16	Kane	35	1.2	0.023	0.015	<0.00089	<0.00089
	HZ-MW-27: 40	8/24/16	Kane	40	0.78	0.0087	0.022	<0.0011	<0.0011
	HZ-MW-27: 45	8/24/16	Kane	45	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011

**Table 1
Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2-DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
	HZ-MW-27: 50	8/24/16	Kane	50	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-27: 55	8/24/16	Kane	55	<0.001	<0.001	<0.001	<0.001	<0.001
HZ-MW-28	HZ-MW-28: 5	10/20/16	Kane	5	<0.0011	<0.0011	<0.0011	<0.0014	<0.0014
	HZ-MW-28: 10	10/20/16	Kane	10	<0.0014	<0.0014	<0.0014	<0.0018	<0.0018
	HZ-MW-28: 20	10/20/16	Kane	20	<0.0012	<0.0012	<0.0012	<0.0016	<0.0016
	HZ-MW-28: 30	10/20/16	Kane	30	<0.0011	<0.0011	<0.0011	<0.0014	<0.0014
HZ-MW-29	HZ-MW-29: 5	10/21/16	Kane	5	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-29: 10	10/21/16	Kane	10	<0.001	<0.001	<0.001	<0.001	<0.001
	HZ-MW-29: 20	10/21/16	Kane	20	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-29: 30	10/21/16	Kane	30	0.0027	<0.00094	0.0023	<0.00094	<0.00094
HZ-MW-30	HZ-MW-30: 6.5	11/18/16	Kane	6.5	0.057	<0.00099	<0.00099	<0.00099	<0.00099
	HZ-MW-30: 10	11/18/16	Kane	10	0.099	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-30: 21	11/18/16	Kane	21	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-30: 31	11/18/16	Kane	31	0.0041	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-30: 40	11/18/16	Kane	40	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
HZ-MW-31	HZ-MW-31: 10.75	11/21/16	Kane	10.75	0.057	0.0019	0.0012	<0.00081	<0.00081
HZ-MW-32	HZ-MW-32: 6.5	11/21/16	Kane	6.5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-32: 10	11/21/16	Kane	10	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
HZ-MW-33	HZ-MW-33: 5	11/22/16	Kane	5	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089
	HZ-MW-33: 10.5	11/22/16	Kane	10.5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	HZ-MW-33: 20	11/22/16	Kane	20	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	HZ-MW-33: 31	11/22/16	Kane	31	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084
HZ-MW-34	HZ-MW-34: 5.75	11/22/16	Kane	5.75	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	HZ-MW-34: 10	11/22/16	Kane	10	0.0014	0.0012	0.0014	<0.0011	<0.0011
	HZ-MW-34: 20	11/22/16	Kane	20	<0.0011	0.0031	0.013	<0.0011	0.0015
MW-41	MW-41: 1.5	12/29/16	Kane	1.5	0.0027	<0.0011	<0.0011	<0.0011	<0.0011
	MW-41: 5.5	12/29/16	Kane	5.5	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
S-MW-6	S-MW-6: 1.5	12/29/16	Kane	1.5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	S-MW-6: 4	12/29/16	Kane	4	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
KSB-28	KSB-28: 5	2/28/17	Kane	5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-28: 7	2/28/17	Kane	7	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-28: 10	2/28/17	Kane	10	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-28: 12	2/28/17	Kane	12	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-28: 15	2/28/17	Kane	15	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
KSB-29	KSB-29: 7	2/28/17	Kane	7	0.43	0.02	0.005	<0.0011	<0.0011
	KSB-29: 9	2/28/17	Kane	9	1.1	0.076	0.012	<0.0011	<0.0011
	KSB-29: 12	2/28/17	Kane	12	21	0.47	0.15	<0.0010	0.0029
	KSB-29: 14.5	2/28/17	Kane	14.5	0.072	0.04	4.4	0.013	0.18
KSB-30	KSB-30: 6	2/28/17	Kane	6	4.5	0.062	0.047	<0.0011	<0.0011
	KSB-30: 10	2/28/17	Kane	10	6.1	0.0094	0.0034	<0.0011	<0.0011
	KSB-30: 13.5	2/28/17	Kane	13.5	12	0.015	0.013	<0.00091	<0.00091
	KSB-30: 15	2/28/17	Kane	15	2.4	0.0075	0.0065	<0.0010	<0.0010
KSB-31	KSB-31: 7	2/28/17	Kane	7	1.4	0.13	0.024	<0.0010	<0.0010
	KSB-31: 10	2/28/17	Kane	10	1.5	0.0053	0.005	<0.0010	<0.0010
	KSB-31: 12	2/28/17	Kane	12	1.6	0.007	0.0032	<0.00082	<0.00082
	KSB-31: 15	2/28/17	Kane	15	0.14	0.0015	<0.0011	<0.0011	<0.0011
KSB-32	KSB-32: 7.5	2/28/17	Kane	7.5	4.5	0.023	0.017	<0.0011	<0.0011
	KSB-32: 10	2/28/17	Kane	10	0.82	0.0038	0.002	<0.0011	<0.0011
	KSB-32: 11.5	2/28/17	Kane	11.5	0.69	0.0029	0.0014	<0.0012	<0.0012
	KSB-32: 15	2/28/17	Kane	15	0.049	0.0028	<0.00099	<0.00099	<0.00099
KSB-33	KSB-33: 6	6/7/17	Kane	6	0.011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-33: 10	6/7/17	Kane	10	0.0022	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-33: 15	6/7/17	Kane	15	2.6	0.0013	<0.0010	<0.0010	<0.0010
	KSB-33: 20	6/7/17	Kane	20	1.5	0.0033	<0.0010	<0.0010	<0.0010
	KSB-33: 25	6/7/17	Kane	25	0.64	<0.00095	<0.00095	<0.00095	<0.00095
KSB-34	KSB-34: 5	6/7/17	Kane	5	0.009	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-34: 10	6/7/17	Kane	10	2.7	<0.0010	<0.0010	<0.0010	0.0021
	KSB-34: 12	6/7/17	Kane	12	26	0.017	<0.0011	<0.0011	<0.0011
	KSB-34: 15	6/7/17	Kane	15	14	0.019	<0.0011	0.0013	<0.0011

**Table 1
Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2-DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
	KSB-34: 20	6/7/17	Kane	20	2.3	0.0016	<0.0010	<0.0010	<0.0010
	KSB-34: 25	6/7/17	Kane	25	0.56	<0.0011	<0.0011	<0.0011	<0.0011
KSB-35	KSB-35: 5	6/7/17	Kane	5	0.012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-35: 10	6/7/17	Kane	10	16	0.045	<0.0012	0.0022	<0.0012
	KSB-35: 11	6/7/17	Kane	11	4.4	0.0085	<0.0011	<0.0011	<0.0011
	KSB-35: 15	6/7/17	Kane	15	2.5	0.0029	<0.0012	<0.0012	<0.0012
	KSB-35: 17	6/7/17	Kane	17	2.9	0.0038	<0.0012	<0.0012	<0.0012
	KSB-35: 20	6/7/17	Kane	20	1.4	0.0042	<0.0010	<0.0010	<0.0010
	KSB-35: 25	6/7/17	Kane	25	0.025	<0.0011	<0.0011	<0.0011	<0.0011
KSB-36	KSB-36: 5	6/7/17	Kane	5	0.0083	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-36: 10	6/7/17	Kane	10	0.0032	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-36: 15	6/7/17	Kane	15	0.0012	<0.00099	<0.00099	<0.00099	<0.00099
	KSB-36: 17	6/7/17	Kane	17	12	0.023	<0.0010	0.0018	<0.0010
	KSB-36: 20	6/7/17	Kane	20	7.1	0.017	<0.0011	<0.0011	<0.0011
	KSB-36: 25	6/7/17	Kane	25	0.73	0.0032	<0.00098	<0.00098	<0.00098
KSB-37	KSB-37: 5	6/7/17	Kane	5	0.0028	<0.0010	<0.0010	<0.0010	<0.0010
	KSB-37: 10	6/7/17	Kane	10	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-37: 15	6/7/17	Kane	15	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-37: 20	6/7/17	Kane	20	0.0012	<0.00096	<0.00096	<0.00096	<0.00096
	KSB-37: 25	6/7/17	Kane	25	7.3	0.015	<0.0011	<0.0011	<0.0011
KSB-38	KSB-38: 5	6/8/17	Kane	5	0.002	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-38: 9	6/8/17	Kane	9	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-38: 15	6/8/17	Kane	15	15	0.049	<0.0011	0.0012	<0.0011
	KSB-38: 20	6/8/17	Kane	20	0.18	<0.0010	<0.0010	<0.0010	<0.0010
	KSB-38: 25	6/8/17	Kane	25	0.0015	<0.00098	<0.00098	<0.00098	<0.00098
KSB-39	KSB-39: 5	6/8/17	Kane	5	0.0013	<0.00099	<0.00099	<0.00099	<0.00099
	KSB-39: 10	6/8/17	Kane	10	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-39: 15	6/8/17	Kane	15	0.0022	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-39: 18	6/8/17	Kane	18	11	0.052	0.0065	0.0023	<0.0010
	KSB-39: 20	6/8/17	Kane	20	6.5	0.0093	0.0039	<0.0015	<0.0015
	KSB-39: 25	6/8/17	Kane	25	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098
KSB-40	KSB-40: 5	6/8/17	Kane	5	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-40: 10	6/8/17	Kane	10	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-40: 15	6/8/17	Kane	15	0.035	0.006	0.044	<0.0014	<0.0014
	KSB-40: 20	6/8/17	Kane	20	2.7	0.068	0.29	0.0012	0.0072
	KSB-40: 25	6/8/17	Kane	25	0.95	0.0064	0.0059	<0.0012	<0.0012
KSB-41	KSB-41: 5	6/8/17	Kane	5	0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-41: 10	6/8/17	Kane	10	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-41: 15	6/8/17	Kane	15	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-41: 20	6/8/17	Kane	20	3.6	0.094	0.12	<0.0010	<0.0010
	KSB-41: 23	6/8/17	Kane	23	3.4	0.1	0.2	<0.0011	0.0015
	KSB-41: 25	6/8/17	Kane	25	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
KSB-42	KSB-42: 5	6/8/17	Kane	5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-42: 10	6/8/17	Kane	10	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	KSB-42: 15	6/8/17	Kane	15	0.0018	<0.0014	<0.0014	<0.0014	<0.0014
	KSB-42: 20	6/8/17	Kane	20	4.7	0.045	0.059	<0.00058	<0.00058
	KSB-42: 25	6/8/17	Kane	25	1.2	0.016	0.0031	<0.0011	<0.0011
KSB-43	KSB-43: 5	6/8/17	Kane	5	0.0013	<0.0010	<0.0010	<0.0010	<0.0010
	KSB-43: 10	6/8/17	Kane	10	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-43: 15	6/8/17	Kane	15	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	KSB-43: 20	6/8/17	Kane	20	1.8	0.069	0.1	<0.00099	<0.00099
	KSB-43: 25	6/8/17	Kane	25	0.5	0.016	0.32	<0.0011	0.0011
KSB-44	KSB-44: 5	6/8/17	Kane	5	<0.069 [^]	<0.069 [^]	<0.069	<0.069	<0.069
	KSB-44: 10	6/8/17	Kane	10	0.024	0.017	0.05	<0.0014	<0.0014
	KSB-44: 15	6/8/17	Kane	15	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	KSB-44: 20	6/8/17	Kane	20	0.096	<0.0010	<0.0010	<0.0010	<0.0010
	KSB-44: 25	6/8/17	Kane	25	0.74	0.0013	<0.00095	<0.00095	<0.00095
KSB-45	KSB-45: 5	6/8/17	Kane	5	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011

**Table 1
Bothell Service Center
Soil Analytical Results**

Sample Location	Sample Identifier	Date	Sampled By	Sample Depth (feet bgs)	PCE (mg/kg)	TCE (mg/kg)	(cis) 1,2-DCE (mg/kg)	1,1-DCE (mg/kg)	Vinyl Chloride (mg/kg)
	KSB-45: 10	6/8/17	Kane	10	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	KSB-45: 15	6/8/17	Kane	15	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	KSB-45: 20	6/8/17	Kane	20	1	0.021	0.078	<0.0010	<0.0010
	KSB-45: 25	6/8/17	Kane	25	1.1	0.07	0.5	<0.0011	<0.0011
KSB-46	KSB-46: 7	6/23/17	Kane	7	0.012	<0.00095	<0.00095	<0.00095	<0.00095
	KSB-46: 10	6/23/17	Kane	10	0.0077	<0.00089	<0.00089	<0.00089	<0.00089
	KSB-46: 15	6/23/17	Kane	15	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	KSB-46: 20	6/23/17	Kane	20	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	KSB-46: 25	6/23/17	Kane	25	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
MTCA Method A Cleanup Levels ¹					0.05	0.05	N/A	N/A	N/A
MTCA Method B Cleanup Levels					476	12	160	4000	0.67
RCRA Subtitle D Landfill Limits ²					14	10	N/A	N/A	4

Notes:

PCE – Tetrachloroethene

TCE – Trichloroethene

cis 1,2-DCE - cis 1,2-Dichloroethene

Blank – Not analyzed or not reported

Bold – Analyte detected

Bold / highlighted – Analyte exceeds MTCA Method A cleanup level

mg/kg – milligrams per kilogram

ND – Analyte not detected at laboratory's reporting limit, which was not available

N/A – Not applicable

¹ – Table 740-1, WAC 173-340-900

*- Analyzed by EPA Method 8021B

[^] - Reporting limit greater than cleanup level

**Table 2
Bothell Service Center
Groundwater Analytical Results**

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Turbidity (NTU)	Alkalinity (mg CaCO ₃ /L)	Sulfate (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Organic Carbon (mg/L)				
				4/28/05			Farallon	6,700	160	110		6.6	305	0.83	97.4																
				8/15/06			Farallon	8,500	210	250		5.7	311	0.79	504																
				5/14/07			Farallon	8,600	370	160		6.1	319	0.64	449																
				11/27/07			Farallon	5,400	220	120		6.8	299	1.09	114																
				8/26/08			Farallon	11,000	790	270		6.2	248	2.91	159	0	0				130	26		0.22	<0.05	5.5	<1.2	<1.1	1.59		
				1/9/09			Farallon	5,200	250	180		6.7	289	0.57	25.6	3.2	0.1				130	24		0.14	0.053	51	<5	<5	2.47		
				6/11/09			Farallon	1,600	2,000	240		6.3	285	0.63	61.7	3.8	0				130	15		<0.05	<0.05	310	<25	<25	2.1		
				9/14/09			Farallon	10,000	890	510		6.1	290	0.59	167	1	0				140	17		0.17	0.062	5400	<500	<500	1.8		
				5/27/10			Farallon	5,800	310	1,200	<50	6.7	255	0.32	-32.1																
				9/10/10			Farallon	4,700	310	620	<20	7	239	0.33	-10.2																
				6/10/11			Farallon	3,300	160	970	<20	6.8	287	0.34	-30.3	3	0				110	19		<0.05			4200	<500	<500	1.4	
				3/21/13			DOF	1,400	140	530	0.85	6.8	337	1.1	45.6	2										<0.05	16400	<1.2	<1.1	5.68	
				4/4/14			DOF	1,500	160	1,900	5.6	6.8	290	0.5	-53	2.8					139					<0.05	15200	<1.2	<1.1	1.63	
				10/10/14			DOF	2,000	140	240	<1.0 U	6	306	0.1	4.8	1.2					45.7					<0.05 U	14400	<1.2 U	<1.1 U	1.75	
				11/11/15	9.28	36.46	HWA	960	120	1,100	<10	6.12	342	0.00	-54.4	2.4									0.051		3300	<250	<16	1.4	
				9/22/16	8.51	37.21	Kane	380	71	1,300	<10	6.28	433																		
10/31/16	6.91	38.81	Kane	3,800	900	7,400	<50	6.52	364																						
MW-5	Shallow	10 to 25	44.297	7/13/01			ERM	2,650	14.5	31.1	<1.0																				
				10/26/01			ERM	1,670	<100	<100	<100																				
				2/12/02			ERM	1,310	18.2	38.5	<1.0																				
				10/1/02			Farallon	3,900	72	170		6.2	185	0.84	70.6						1.69										
				4/28/05			Farallon	2,200	56	76		5.6	262	1.25	150																
				8/15/05			Farallon	640	12	20																					
				8/14/06			Farallon	10,000	240	270		5.7	259	0.91	470																
				5/14/07			Farallon	650	16	23		5.7	290	1.63	448																
				11/27/07			Farallon	1,300	25	31		6	262	7.09	128																
				8/26/08			Farallon	21,000	660	630		6	203	3.29	273	0	0				81	32		1.2	<0.05	5.7	<1.2	<1.1	1.95		
				5/27/10			Farallon	6,600	400	240	<50	6	198	0.55	109																
				3/21/13			DOF	3,100	220	180	<0.2	6.4	304	0.4	69.8											<0.05	5940	<1.2	<1.1	3.94	
				4/4/14			DOF	1,300	79	65	0.03	6.7	257	0.1	-35	0					8.8					<0.05	2570	<1.2	<1.1	1.59	
				10/10/14			DOF	7,600	220	140	<10 U	5.8	163	0.1	13.7	0					12.3					<0.05 U	3260	<1.2 U	<1.1 U	1.78	
				11/11/15	9.04	35.30	HWA	2,200	93	76	<20	5.87	170	1.87	29.6	0							20		0.69		3200	<250	<21	<1.0	
				9/21/16	8.11	36.19	Kane	910	39	35	<10	5.96	170																		
10/24/16	6.38	37.92	Kane	590	26	29	<4.0	6.22	291																						
MW-6	Shallow	10 to 25	47.142	7/13/01			ERM	30,000	618	231 ES	<1.0																				
				10/26/01			ERM	13,500	<400	<400	<400																				
				2/12/02			ERM	21,800	1,110 ES	406 ES	<1.0																				
				10/1/02			Farallon	27,000	1,100	470		6.6	201	0.92	95.2						1.5										
				4/27/05			Farallon	15,000	1,100	460		6.2	235	3.14	119																
				8/15/05			Farallon	30,000	1,500	930																					
				8/14/06			Farallon	24,000	1,100	1,500		5.8	335	1.06	483																
				5/14/07			Farallon	17,000	860	1,300		6	296	2.18	471																
				11/27/07			Farallon	22,000	940	1,300		6.6	285	2.75	149																
				8/26/08			Farallon	25,000	1,200	1,200		6.1	256	2.34	273	0	0.3				130	23		<0.05	<0.05	8.2	<1.2	<1.1	3.12		
				1/9/09			Farallon	12,000	610	440		6.5	190	4.94	115	0	0				63	15		0.59	<0.05	2.9	<0.5	<0.5	2.54		
				6/11/09			Farallon	20,000	780	710		6	270	1.96	98	0.2	0				120	20		0.26	<0.05	8	<0.5	<0.5	2.1		
				9/14/09			Farallon	23,000	1,200	870		6.3	315	0.74	158	0	0				140	23		<0.05	<0.05	8.8	<0.5	<0.5	3.1		
				2/25/10			Farallon	17,000	730	450	<100	6.4	176	2.49	170																
				5/27/10			Farallon	13,000	480	320	<60	6.6	250	0.3	38.1																
				9/10/10			Farallon	860	430	8,300	<50	6.6	492	0.34	-67.2												64	<6.0	<6.0	19	
				6/10/11			Farallon	460	72	2,100	<20	6.5	561	0.44	-178	3.4	0.3				310	<5		<0.05		490	<50	<50	33		
				3/20/13			DOF	500	140	9,600	56 ES	7.3	444	0	-144	4										0.25	5790	<1.2	2	12.3	
				4/4/14			DOF	950	220	240	19	6.8	243	0.4	-142	3					1.9					<0.05	1620	<1.2	<1.1	1.93	
				10/10/14			DOF	73	28	6,600	2,700	6.6	623	0.3	-139	5.2					10.8					0.27	6220	<1.2 U	1200	12.9	
11/11/15	10.23	36.98	HWA	26	<20	3,800	2,900	6.37	749	0.00	-110.1	4.0							<10		0.052		3400	<250	850	11					
9/23/16	9.31	37.83	Kane	240	69	10,000	2,400	6.81	559																						
10/27/16	7.87	39.27	Kane	<50	<50	9,500	1,900	6.60	410																						
MW-7	Shallow	10 to 25	45.527	7/13/01			ERM	10,100	35	30	<1.0																				
				10/26/01			ERM	4,880	15	13.8	<1.0																				

**Table 2
Bothell Service Center
Groundwater Analytical Results**

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Turbidity (NTU)	Alkalinity (mg CaCO ₃ /L)	Sulfate (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Organic Carbon (mg/L)				
				8/14/06			Farallon	4,000	<40	<40		6.1	303	0.82	386																
				5/14/07			Farallon	320	2.7	<2.0		6.2	352	0.54	437																
				11/27/07			Farallon	1,200	<10	<10		6.9	336	0.38	76.6																
				8/26/08			Farallon	4,300	43	43		6.5	240	2.74	116						130	25		<0.05	<0.05	42.6	<1.2	<1.1	2.1		
				1/8/09			Farallon	760	7.8	4.8		6.7	330	0.7	84.3	3.2	0				150	27		<0.05	<0.05	110	<5.0	<5.0	3.6		
				6/11/09			Farallon	2,100	34	33		6.5	340	0.62	62.3	4.2	0				140	25		<0.05	<0.05	140	<10.0	<10.0	2.3		
				9/14/09			Farallon	6,300	120	79		6.3	318	0.72	170	1.8	0				150	24		<0.05	<0.05	23	<2.5	<2.5	1.9		
				5/27/10			Farallon	830	18	14	<10	6.6	289	0.63	-22.6																
				9/9/10			Farallon	5,400	110	55	<50	6.8	295	0.31	-21.4							24					190	<25.0	<25.0	1.7	
				6/10/11			Farallon	810	24	16	<4.0	6.7	346	0.52	-43.5	5	0				120	16		<0.05			240	<10.0	<10.0	2.4	
				3/21/13			DOF	3,300	140	240	0.28	7	385	0.21	-3.6	3.8										<0.05	741	<1.2	<1.1	6.29	
				4/4/14			DOF	2,100	130	750	2.3	7.1	329	0.6	-47	4.2						221				<0.05	989	<1.2	<1.1	2.57	
				10/11/14			DOF	6,200	380	3,400	10	6.3	391	0.1	-27	2.4						35.8				<0.05 U	6580	<1.2 U	<1.1 U	2.44	
				11/11/15	10.12	35.45	HWA	950	42	240	<10	6.32	282	0.00	12.5	1.5							16		0.056		290	<25	<2.0	2.5	
				9/21/16	8.92	36.61	Kane	3,800	160	1,300	<20	6.32	350																		
10/25/16	8.21	37.32	Kane	450	32	280	<4.0	6.88	323																						
10/26/16	7.3	38.23	Kane					6.62	316			0.75	0.14						22	<0.050	<0.050						2.8				
MW-8	Deep	45 to 50	47.387	10/1/02			Farallon	51	0.98	0.88		7	487	0.73	-355			19													
				4/28/05			Farallon	6.4	<0.2	<0.2		6.3	186	0.97	104																
				8/15/06			Farallon	0.44	<0.2	<0.2		6.2	167	2.43	447																
				5/14/07			Farallon	4.3	<0.2	<0.2		6.1	145	2.89	419																
				11/27/07			Farallon	2.2	<0.2	<0.2		6.7	164	0.54	80.7																
				5/22/08			Farallon	79	7.2	12		6.2	139	5.8	153																
				8/25/08			Farallon	93	4.8	4.4		6.3	118	2.1	391	0	0				56	12		<0.05	<0.05	<0.7	<1.2	<1.1	<1.5		
				3/20/13			DOF	33	1	2	<0.02	6.7	218	0.06	10.1	1.4										<0.05	649	<1.2	<1.1	6.04	
				4/4/14			DOF	130	37	41	<0.02	6.8	181	1	-44	0					2.8					<0.05	<0.7	<1.2	<1.1	1.98	
				10/11/14			DOF	150	37	140	0.2	6.2	190	0.9	49.1	1					8.3					<0.05U	43.3	<1.2U	<1.1U	1.99	
				11/11/15	10.82	36.63	HWA	180	50	160	<1.0	6.06	225	0.85	-26.8	0.5						13		<0.050			19	<1.0	0.59	2.2	
				9/22/16	9.71	37.68	Kane	50	6.2	25	<0.20	6.33	229																		
				10/26/16	8.48	38.91	Kane	5.8	1.3	3.1	<0.20	6.43	246			1.0	0.16						12	<0.050	<0.050					1.4	
				MW-9	Deep	45 to 50	49.857	10/1/02			Farallon	250	<2.0	<2.0		7.3	373	0.91	-197			85									
								4/27/05			Farallon	53,000	<100	<100		6.9	246	1.02	78.7												
8/15/05			Farallon					140,000	<200	<200																					
11/27/07			Farallon					13,000	<100	<100		7.5	117	7.5	148																
5/22/08			Farallon					8,800	<50	<50		7.4	191	1.1	68.9																
8/26/08			Farallon					6,000	3,400	<50		7.2	166	1.2	102	0	0				100	<5		<0.05	<0.05	982	<1.2	<1.1	1.65		
1/9/09			Farallon					160,000	<1,000	<1,000		7.5	213	1.4	78.9	0	0				120	<5		<0.05	<0.05	530	<50	<50	1.79		
6/11/09			Farallon					43,000	<300	<300		6.6	98	7.7	83.3	0.2	0				40	<5		0.16	<0.05	84	<5	<0.5	<1.0		
9/14/09			Farallon					21,000	<200	<200		6.7	139	3.01	167	0	0				68	<5		0.17	<0.05	2.2	<0.5	<0.5	1.4		
2/25/10			Farallon					16,000	<100	<100	<100	7.5	63	5.97	148																
9/10/10			Farallon					6,500	36	<30	<30	7.7	147	2.91	-63.7								<5				4.3	<0.5	<0.5	<1.0	
6/10/11			Farallon					21,000	<200	<200	<200	7.6	218	0.39	63.2	0	0.1				140	<5		<0.05			1400	<100	<100	1.3	
3/20/13			DOF					DNAPL	DNAPL	DNAPL	DNAPL																				
4/7/14			DOF					15,000	46	22	<0.02	7	194	0.4	-98	0					9.8					<0.05	2200	<1.2	<1.1	1.89	
10/11/14			DOF					3,300	96	54	<2.0 U	6.5	168	0.1	-38	1					1.6					0.725	757	<1.2 U	<1.1 U	1.63	
11/11/15	11.9	38.00	HWA	890	560	680	<10	5.90	139	0.00	45.6	0.2						<5.0		<0.050			190	<15	6.1	<1.0					
9/22/16	11.2	38.66	Kane	53,000	<500	<500	<500	7.41	222																						
10/26/16	9.71	40.15	Kane	42,000	<300	<300	<300	7.54	254			0.11	0.079					3,300	0.44	<0.050						<1.0					
MW-10	Shallow Decommissioned	5 to 25		4/27/05			Farallon	3	<0.2	<0.2																					
MW-10R	Shallow	15 to 25	49.392	9/19/16	9.98	39.41	Kane	1.6	<0.20	<0.20	<0.20	6.61	188																		
				11/1/16	8.34	41.05	Kane	1.3	<0.20	<0.20	<0.20	6.78	212																		
MW-11	Intermediate	25 to 33	47.207	11/28/07			Farallon	28	0.26	<0.2		6.6	176	1.26	165																
				5/22/08			Farallon	23	0.24	<0.2		6.2	174	0.84	132																
				8/25/08			Farallon	27	0.53	<0.2		6.3	142	1.46	238	0	0			58	18		0.69	<0.05	29.8	<1.2	<1.1	1.71			
				3/20/13			DOF	5.6	0.2	0.26	<0.02	6.6	296	0.1	-50.6	0.9									<0.05	5770	<1.2	<1.1	6.53		
				4/4/14			DOF	5.6	<0.2	<0.2	<0.02	6.8	298	0.2	-107	1.6				0.6					<0.05	3500	<1.2	<1.1	2.61		
				10/11/14			DOF	4.8	0.18 J	0.13 J	<0.02 U	6.1	371	0.4	16.8	1.2				4.9					<0.05						

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Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Turbidity (NTU)	Alkalinity (mg CaCO ₃ /L)	Sulfate (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Organic Carbon (mg/L)				
				8/26/08			Farallon	1,600	<10	<10		6.3	227	2.12	4.6	1.8	0.2		150	19		<0.05	0.632	<0.7	<1.2	<1.1	5.04				
				1/8/09			Farallon	3,200	88	44		6.5	309	0.77	70	1.9	0.1		150	22		<0.05	0.062	16	<1.0	<1.0	<1.0	3.11			
				6/11/09			Farallon	2,500	53	29		6.2	293	0.62	75.4	1.4	0.1		130	22		<0.05	<0.05	30	<3.0	<3.0	<3.0	1.7			
				9/14/09			Farallon	700	5.1	<4		6.2	263	0.77	168	2.2	0.1		130	20				0.055	<0.05	4.8	<0.5	<0.5	2.4		
				5/27/10			Farallon	2,800	240	80	<20	6.5	265	0.32	8.7																
				9/9/10			Farallon	1,500	22	<20	<20	6.8	226	0.32	9.5													490	<50	<50	1.1
				6/10/11			Farallon	5,800	270	180	<30	6.5	348	0.49	-14.6	1.4	0.1		150	19				<0.05		1000	<100	<100	<100	2.5	
				3/20/13			DOF	4,800	210	920	1.6	6.8	392	0.05	-18.8	1.6										<0.05	12900	<1.2	<1.1	7.97	
				4/4/14			DOF	5,900	240	730	2.1	6.9	327	0.1	-52	2					13					0.072	12300	<1.2	<1.1	2.88	
				10/10/14			DOF	4,100	390	150	<2.0 U	6.2	360	0.2	-25.6	2.6					8.1					<0.05 U	12800	<1.2 U	<1.1 U	2.82	
11/11/15			9.61	35.93	HWA	2,900	180	1,100	<0.20	6.26	397	0.00	11	1.0						16		<0.050	3000	<150	<18	2.2					
9/22/16			8.89	36.58	Kane	1,100	140	730	<10	6.37	410																				
10/26/16			7.26	38.21	Kane	1,300	230	1,600	<20	6.56	369				0.58	0.29				13	<0.050	<0.050					2.1				
MW-13	Deep Damaged	40 to 55	48.777	11/28/07			Farallon	<1.0	<0.2	<0.2		7.10	152	1.35	151																
MW-14	Intermediate	22 to 32	49.157	11/28/07			Farallon	<0.2	<0.2	<0.2		7.0	146	4.0	160																
				11/11/15	10.23	38.96	HWA	<0.20	<0.20	<0.20	<0.20	5.56	395	0.00	-99	1.6					<10		0.081		11000	<500	<55	13			
				9/21/16	9.53	39.63	Kane	0.91	<0.20	<0.20	<0.20	6.08	243																		
				11/1/16	8.29	40.87	Kane	<0.20	<0.20	<0.20	<0.20	5.96	307																		
MW-15	Intermediate Decommissioned	22 to 32		11/28/07			Farallon	<0.2	<0.2	<0.2		6.8	157	4.0	170																
MW-16	Deep Decommissioned	40 to 55		11/28/07			Farallon	10	<0.2	<0.2		7.9	124	6.9	130																
MW-17	Deep Damaged	40 to 50	48.947	11/28/07			Farallon	6.5	<0.2	<0.2		7.7	188	0.49	141																
MW-18	Intermediate	22 to 30	48.747	11/28/07			Farallon	270	<2.0	<2.0		7.2	266	0.83	158																
				5/22/08			Farallon	<0.25	<0.25	<0.25																					
				4/4/14			DOF	2.4	1.2	14	3.3	6.1	493	0.3	-111	4.2									<0.05	16700	<1.2	<1.1	48.5		
				10/11/14			DOF	0.49	<0.2 U	3.6	1.3	5.9	449	0.4	-6.6	5									<0.05 U	13300	<1.2 U	<1.1 U	29.8		
				9/23/16	9.65	39.10	Kane	7.8	<0.20	1.3	0.26	6.02	238																		
10/27/16	8.11	40.64	Kane	<0.20	<0.20	2.0	0.47	5.90	256																						
MW-19	Shallow	9 to 19	47.517	11/16/15	9.31	38.26	HWA	8,200	70	76	<50	6.34	638	3.75	49.2	0.1					31	0.060		74	<15	2.2	7.9				
				9/21/16	9.20	38.32	Kane	1,800	84	490	34	6.34	313																		
				10/25/16	8.02	39.50	Kane	5,700	140	860	61	6.70	296																		
MW-20	Intermediate	25 to 30	46.857	11/16/15	9.20	37.70	HWA	900	60	37	17	6.17	557	0.00	-73.0	0.0					22	0.071		1800	<125	9.4	2.7				
				9/21/16	9.02	37.84	Kane	190	45	120	9.0	6.66	340																		
				10/26/16	7.73	39.13	Kane	140	44	120	17	6.44	348										43	0.21	<0.050				4.3		
MW-21	Shallow	10 to 15	45.717	11/16/15	9.41	35.58	HWA	21,000	440	350	<100	7.38	1579	8.60	-18.0	0.0					96	2		310	<25	2.6	3.3				
				9/22/16	9.05	36.67	Kane	27,000	540	360	<200	6.56	355																		
				10/31/16	6.97	38.75	Kane	8,400	210	190	<50	6.32	319																		
MW-22	Deep	54 to 59	44.957	11/16/15	8.91	36.84	HWA	69	2.8	2.0	<0.40	7.30	296	0.00	-52.2	0.0					<5.0	0.06		1400	<250	<9.0	1.5				
				9/22/16	8.41	36.55	Kane	11	<0.20	1.5	<0.20	7.42	236																		
				10/26/16	7.16	37.80	Kane	2.1	<0.20	2.2	<0.20	7.63	262				0.066	0.14				<5.0	0.24	<0.050					1.2		
MW-23	Shallow	6 to 16	48.027	9/20/16	8.92	39.11	Kane	0.46	<0.20	<0.20	<0.20	5.91	123																		
				11/1/16	7.29	40.74	Kane	2.2	<0.20	<0.20	<0.20	6.19	128																		
MW-24	Deep	44 to 54	48.962	11/1/16	8.89	40.07	Kane	9.0	<0.20	<0.20	<0.20	8.44	225																		
MW-25	Shallow	7.5 to 17.5	46.207	9/20/16	9.22	36.99	Kane	4,200	<20.0	<20.0	<20.0	6.56	324																		
				10/25/16	7.75	38.46	Kane	99	7.4	10	<1.0	6.58	184																		
MW-26	Intermediate	25 to 35	46.047	9/20/16	9.04	37.01	Kane	13	0.29	5.3	<0.20	6.48	379																		
				10/31/16	7.65	38.40	Kane	310	2.6	<2.0	<2.0	6.59	364																		
MW-27	Shallow	6 to 16	48.177	9/15/16	10.43	37.75	Kane	120	<1.0	<1.0	<1.0	6.31	87																		
				10/31/16	8.22	39.96	Kane	120	<0.40	<0.40	<0.40	5.95	63																		
MW-28	Intermediate	25 to 35	48.187	9/15/16	10.39	37.80	Kane	<0.20	<0.20	<0.20	<0.20	6.22	157																		
				11/1/16	8.8	39.39	Kane	<0.20	<0.20	<0.20	<0.20	5.97	105																		
MW-29	Shallow	45 to 55	48.242	9/15/16	10.5	37.74	Kane	<0.20	<0.20	<0.20	<0.20	7.33	254																		
				10/27/16	9.01	39.23	Kane	0.44	<0.20	<0.20	<0.20	7.06	252																		
MW-30	Shallow	9 to 19	48.142	9/20/16	8.81	39.33	Kane	92,000	<500	<500	<500	6.65	241																		
				10/26/16	7.33	40.81	Kane	130,000	<1,000	1,300	<1,000	6.40	619				1.0	<0.056				120	0.15	5.7				26			
MW-31	Deep	40 to 50	47.817	9/20/16	9.81	38.01	Kane	11	0.25	<0.20	<0.20	6.80	244																		
				10/28/16	8.25	39.57	Kane	7.8	0.22	<0.20	<0.20	6.79																			

**Table 2
Bothell Service Center
Groundwater Analytical Results**

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Turbidity (NTU)	Alkalinity (mg CaCO ₃ /L)	Sulfate (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Organic Carbon (mg/L)			
				9/12/14			HWA	4.2	<0.20	<0.20	<0.20	7.08	207	1.23																
				12/15/14			HWA	0.4	<0.20	<0.20	<0.20	7.01	235	0.57																
				3/19/15			HWA	0.35	<0.20	0.24	<0.20	6.59	326	NA					0.06		66					<0.50				
				11/28/16	4.53		Kane	0.34	<0.20	<0.20	<0.20	6.78	167																	
HZ-MW-17	Shallow	10 to 20	38.567	6/9/14			HWA	<0.20	<0.20	<0.20	<0.20	6.61	594	0.15																
				9/12/14			HWA	2.0	<0.20	<0.20	<0.20	6.94	345	0.89																
				12/16/14			HWA	0.5	<0.20	<0.20	<0.20	6.71	309	1.55																
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.96	434	NA																
				9/26/16	8.90	29.67	Kane	<0.20	<0.20	<0.20	<0.20	6.73	230																	
				10/27/16	6.61	31.96	Kane	<0.20	<0.20	<0.20	<0.20	6.89	238																	
HZ-MW-18	Shallow	7.5 to 17.5		6/10/14			HWA	<0.20	<0.20	<0.20	<0.20	6.38	1901	0.14																
HZ-MW-19	Shallow	5 to 15	42.177	5/30/14			HWA	0.97	0.94	0.40	<0.20	6.38	1210	0.10																
				6/9/14			HWA	0.28	0.67	1.1	<0.20	6.26	1213	0.13																
				9/12/14			HWA	3.3	0.76	0.67	<0.20	6.37	675	0.50																
				12/16/14			HWA	1.0	<0.20	<0.20	<0.20	6.75	301	0.42																
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.33	376	NA					0.085		120					100				
				8/6/15			HWA					6.18	513	0.00																
				11/11/15	7.01	35.22	HWA	0.6	0.77	1.1	<0.20	6.03	623	0.00	-13.9	0.0				25				0.084		11	<0.50	<0.50	8.4	
				9/26/16	7.73	34.45	Kane	0.59	0.54	0.48	<0.20	6.29	438																	
10/31/16	4.78	37.40	Kane	<0.20	<0.20	<0.20	<0.20	6.11	174																					
HZ-MW-20	Shallow	5 to 15		6/9/14			HWA	<0.20	<0.20	<0.20	<0.20	6.79	1914	0.28																
				9/13/14			HWA	1.3	<0.20	<0.20	<0.20	7.09	1018	0.72																
				12/16/14			HWA	0.41	<0.20	<0.20	<0.20	6.72	851	0.44																
				3/19/15			HWA	<0.20	<0.20	<0.20	<0.20	6.91	1139	NA																
HZ-MW-21	Shallow	6 to 16	39.517	9/13/16	7.14	32.38	Kane	<0.20	<0.20	<0.20	<0.20	6.55	509																	
				10/31/16	5.90	33.62	Kane	<0.20	<0.20	<0.20	<0.20	6.31	528																	
HZ-MW-22	Shallow	5 to 15	40.827	9/14/16	6.77	34.06	Kane	0.67	0.62	0.24	<0.20	6.13	303																	
				10/28/16	4.85	35.98	Kane	0.46	<0.20	<0.20	<0.20	6.52	318																	
HZ-MW-23	Intermediate	28 to 38	41.677	9/14/16	8.21	33.47	Kane	2.4	<0.20	0.41	<0.20	6.55	378																	
				10/31/16	6.80	34.88	Kane	2.3	<0.20	0.33	<0.20	6.77	345																	
HZ-MW-24	Intermediate	25 to 35	40.997	9/14/16	7.20	33.80	Kane	4.9	2.4	21	0.8	6.47	356																	
				10/27/16	5.66	35.34	Kane	6.7	0.8	12	0.6	6.69	316																	
HZ-MW-25	Deep	44.33 to 54.33	41.907	9/14/16	8.17	33.74	Kane	6.4	<0.20	<0.20	<0.20	6.71	254																	
				10/28/16	7.02	34.89	Kane	1.2	<0.20	<0.20	<0.20	6.46	237																	
HZ-MW-26	Intermediate	25 to 35	40.692	9/14/16	7.55	33.14	Kane	99	3.5	4.7	<0.40	6.71	267																	
				10/28/16	6.26	34.43	Kane	3.3	<0.20	0.25	<0.20	6.74	265																	
HZ-MW-27	Deep	45 to 55	41.597	9/14/16	8.00	33.60	Kane	1.6	<0.20	0.34	<0.20	6.80	227																	
				10/28/16	6.55	35.05	Kane	0.84	<0.20	<0.20	<0.20	6.51	208																	
HZ-MW-28	Intermediate	25 to 35	38.744	10/27/16	5.90	32.84	Kane	0.96	<0.20	<0.20	<0.20	6.87	343																	
HZ-MW-29	Intermediate	25 to 35	40.309	10/27/16	6.03	34.28	Kane	85	9.0	100	6.6	6.60	271																	
HZ-MW-30	Deep	40 to 50		11/28/16	7.08		Kane	<0.20	<0.20	<0.20	<0.20	8.01	418																	
HZ-MW-31	Shallow	15 to 25		11/28/16	8.42		Kane	<0.20	<0.20	<0.20	<0.20	6.80	325																	
HZ-MW-32	Shallow	15 to 25		11/28/16	7.68		Kane	<0.20	<0.20	<0.20	<0.20	6.78	331																	
HZ-MW-33	Intermediate	25 to 35		11/28/16	6.33		Kane	<0.20	<0.20	0.48	<0.20	7.39	242																	
HZ-MW-34	Shallow	15 to 25		11/28/16	4.81		Kane	7.2	14	44	3.1	6.64	272																	
S-MW-1	Shallow	5.5 to 15.5	43.527	9/20/16	6.96	36.57	Kane	150	<1.0	<1.0	<1.0	6.48	303																	
				10/24/16	4.64	38.89	Kane	17	<0.20	<0.20	<0.20	6.74	140																	
S-MW-2	Shallow	5 to 15	42.297	9/20/16	6.21	36.09	Kane	47	7	26	<0.40	6.41	339																	
				10/24/16	3.95	38.35	Kane	35	20	69	5.1	6.83	349																	
S-MW-3	Intermediate	25 to 35	42.807	9/16/16	6.62	36.19	Kane	0.44	<0.20	<0.20	<0.20	5.79	116																	
				10/31/16	4.93	37.88	Kane	1.7	<0.20	<0.20	<0.20	6.04	116																	
S-MW-4	Deep	40 to 50	42.367	9/14/16	6.32	36.05	Kane	<0.20	<0.20	<0.20	<0.20	6.74	206																	
				10/28/16	4.93	37.44	Kane	0.66	<0.20	<0.20	<0.20	6.44	191																	
S-MW-5	Shallow	15 to 25	41.357	10/28/16	4.56	36.80	Kane	340	<4.0	<4.0	<4.0	6.68	259																	
S-MW-6	Shallow	4 to 14		1/3/17	5.51		Kane	<0.20	<0.20	<0.20	<0.20	6.23	155																	
KSB-46	Intermediate	25 to 30		6/28/17	9.60		Kane	<0.20	<0.20	<0.20	<0.20	6.57	133.7	2.07																
MTCA Method A Cleanup Level ¹								5.0	5.0		0.2																			
MTCA Method B Cleanup Level ²										16																				

Notes:
PCE – Tetrachloroethene
TCE – Trichloroethene
1,1-DCE - 1,1-Dichloroethene

**Table 2
Bothell Service Center
Groundwater Analytical Results**

Well	Well Type and Water Bearing Zone	Screened Depth, (ft bgs)	Top of Casing (TOC) Elevation (feet)*	Date Sampled	Depth to Water (ft below TOC)	GW Elevation (feet)	Sampled By	PCE (µg/L)	TCE (µg/L)	(cis) 1,2-DCE (µg/L)	Vinyl Chloride (µg/L)	pH (units)	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/L)	Manganese (mg/L)	Turbidity (NTU)	Alkalinity (mg CaCO ₃ /L)	Sulfate (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Sulfide (mg/L)	Methane (µg/L)	Ethane (µg/L)	Ethene (µg/L)	Total Organic Carbon (mg/L)
<p>(cis) 1,2-DCE - (cis) 1,2-Dichloroethene (trans) 1,2-DCE - (trans) 1,2-Dichloroethene Blank – Not analyzed or not available Bold – Analyte detected Bold / highlighted – Analyte exceeds MTCA A/B cleanup level < – Analyte not detected at listed reporting limit mg/L – micrograms per liter MV – Millivolts ES – Estimated concentration because analyte concentration was outside of lab instrument calibration range DNAPL – Dense Non-Aqueous Phase Liquid 1 – Table 720-1, WAC 173-340-900 2 – WA Dept. of Ecology CLARC ground water data table (https://fortress.wa.gov/ecy/clarc/FocusSheets/Groundwater%20Methods%20B%20and%20A%20and%20ARARs.pdf) NA – Not Applicable - Well was not sampled by Kane * HWA TOC elevation was used to calculate GW elevation during HWA sampling events.</p>																											

Table 3
Bothell Service Center
Monitoring Well Information

Monitoring Well ID	Date Drilled	Consultant	Well Type / Water-Bearing Zone	Datum: NAVD88 Leveled Elevation (ft) Top of Well Monument	Datum: NAVD88 Leveled Elevation (ft) Top of PVC Casing
MW-1	3/9/2001	ERM	Shallow	47.327	46.952
MW-2	3/9/2001	ERM	Shallow	49.267	48.897
MW-3	3/9/2001	ERM	Shallow	48.367	47.957
MW-4	6/20/2001	ERM	Shallow	46.057	45.717
MW-5	6/20/2001	ERM	Shallow	44.677	44.297
MW-6	6/20/2001	ERM	Shallow	47.567	47.142
MW-7	6/20/2001	ERM	Shallow	45.957	45.527
MW-8	9/26/2002	Farallon	Deep	47.687	47.387
MW-9	9/27/2002	Farallon	Deep	50.287	49.857
MW-10R	8/15/2016	Kane Environmental	Shallow	49.907	49.392
MW-11	11/5/2007	Farallon	Intermediate	47.677	47.207
MW-12	11/5/2007	Farallon	Intermediate	45.837	45.467
MW-13	11/6/2007	Farallon	Deep	49.357	48.777
MW 14	11/2007	Farallon	Intermediate	50.117	49.157
MW-17	11/2007	Farallon	Deep	49.447	48.947
MW-18	11/2007	Farallon	Intermediate	49.477	48.747
MW-19	11/10/2015 - 11/11/2015	HWA	Shallow	47.797	47.517
MW-20	11/9/2015 - 11/10/2015	HWA	Intermediate	47.207	46.857
MW-21	11/11/2015 - 11/12/2015	HWA	Shallow	46.217	45.717
MW-22	11/12/2015 - 11/13/2015	HWA	Deep	45.337	44.957
MW-23	8/26/2016	Kane Environmental	Shallow	48.027	47.747
MW-24	8/31/2016	Kane Environmental	Deep	49.562	48.962
MW-25	8/25/2016	Kane Environmental	Shallow	46.577	46.207
MW-26	8/25/2016 - 8/26/2016	Kane Environmental	Intermediate	46.487	46.047
MW-27	8/25/2016	Kane Environmental	Shallow	48.487	48.177
MW-28	8/29/2016	Kane Environmental	Intermediate	48.467	48.187
MW-29	8/30/2016	Kane Environmental	Shallow	48.497	48.242
MW-30	8/29/2016	Kane Environmental	Shallow	48.497	48.142
MW-31	8/30/2016 - 8/31/2016	Kane Environmental	Deep	48.477	47.817
MW-32	8/31/2016	Kane Environmental	Deep	46.427	45.952
MW-33	9/1/2016	Kane Environmental	Deep	49.837	49.547
MW-34	9/2/2016	Kane Environmental	Deep	47.187	46.597
MW-35	9/2/2016 & 9/6/2016	Kane Environmental	Deep	44.607	44.247
MW-36	9/8/2016	Kane Environmental	Intermediate	47.937	47.327
MW-37	9/9/2016	Kane Environmental	Shallow	48.137	47.557
MW-38	9/12/2016	Kane Environmental	Deep	47.817	47.187
MW-39	10/15/2016	Kane Environmental	Deep	44.885	44.525
MW-40	10/20/2016	Kane Environmental	Shallow	45.001	44.521
MW-41	12/29/2016	Kane Environmental	Shallow	-	-
HZ-MW-1	Unknown	HWA	Shallow	41.997	41.637
HZ-MW-4	8/28/2008	HWA	Shallow	40.617	40.177
HZ-MW-14S	2/21/2013	HWA	Shallow	42.767	42.377
HZ-MW-14D	2/22/2013	HWA	Intermediate	42.777	42.397
HZ-MW-15S	2/22/2013	HWA	Shallow	42.067	41.747
HZ-MW-15D	2/22/2013	HWA	Intermediate	41.997	41.787
HZ-MW-17	4/8/2014	HWA	Shallow	38.847	38.567
HZ-MW-19	1/13/2014	HWA	Shallow	42.527	42.177
HZ-MW-21	8/22/2016	Kane Environmental	Shallow	39.857	39.517
HZ-MW-22	8/22/2016	Kane Environmental	Shallow	41.247	40.827
HZ-MW-23	8/23/2016	Kane Environmental	Intermediate	42.077	41.677
HZ-MW-24	8/23/2016	Kane Environmental	Intermediate	41.527	40.997
HZ-MW-25	8/23/2016 - 8/24/2016	Kane Environmental	Deep	42.267	41.907
HZ-MW-26	8/23/2016	Kane Environmental	Intermediate	41.302	40.692
HZ-MW-27	8/24/2016	Kane Environmental	Deep	41.927	41.597
HZ-MW-28	10/20/2016	Kane Environmental	Intermediate	39.594	38.744
HZ-MW-29	10/21/2016	Kane Environmental	Intermediate	40.739	40.309
HZ-MW-30	11/18/2016	Kane Environmental	Deep	-	-
HZ-MW-31	11/21/2016	Kane Environmental	Shallow	-	-
HZ-MW-32	11/21/2016	Kane Environmental	Shallow	-	-
HZ-MW-33	11/22/2016	Kane Environmental	Intermediate	-	-
HZ-MW-34	11/22/2016	Kane Environmental	Shallow	-	-
S-MW-1	8/22/2016	Kane Environmental	Shallow	43.527	43.067
S-MW-2	8/24/2016	Kane Environmental	Shallow	42.297	41.797
S-MW-3	8/25/2016	Kane Environmental	Intermediate	42.807	42.417
S-MW-4	8/30/2016	Kane Environmental	Deep	42.367	41.797
S-MW-5	10/21/2016	Kane Environmental	Shallow	41.947	41.357
S-MW-6	12/29/2016	Kane Environmental	Shallow	-	-

Wells were surveyed on 9/29/16 and 11/4/16 by DOWL

**Table 7
Bothell Service Center
Aquifer Step Test Summary**

Well ID	Aquifer Zone	Date of Test	Well Depth, ft	Screened interval, ft bgs	SWL, ft TOC	Saturated depth, ft	Step Pumping Rate, gpm	Step duration, min	Drawdown at each step	Notes
MW-06	Shallow/Intermediate	February 1-2, 2017	25	10-25	7.96	17.04	0.6	68	2.04	Multiple attempts to step test well with multiple pumps unsuccessful
MW-11	Intermediate	February 1-2, 2017	33	25-33	8.09	24.91	1.5	17	1.96	
							2.1	13	3.26	
							3	180	6.21	Final pumping rate
MW-34	Deep	February 1-2, 2017	50	40-50	8.05	41.95	2	20	4.95	
							2.4	20	7.23	
							3.7	180	9.4	Final pumping rate
MW-25	Shallow	February 1-2, 2017	17.5	7.5-17.5	7.95	9.55	N/A - pumped to intake w/in 4 minutes	4	5.05	Low well yield precluded long-term test pumping
MW-26	Intermediate	February 1-2, 2017	35	25-35	7.67	27.33	1.2	20	4.06	
							1.5	20	5.68	
							2	120	7.62	Final pumping rate
MW-27	Shallow	February 1-2, 2017	16	6-16	7.95	8.05	0.16	130	2	Multiple attempts to step test well unsuccessful
MW-28	Intermediate	March 1-2, 2017	36	25-35	8.37	26.63	1.5	20	6.94	
							1.75	15	8.87	
							2.2	19	11.07	
							2.25	26	11.57	Final pumping rate
MW-26	Intermediate	March 1-2, 2017	35	25-35	7.33	27.67	Approx. 0.7	31	2.85	Pump unable to sustain consistent rate
MW-20	Intermediate	March 1-2, 2017	36	25-35	7.46	27.54	1.6	16	7.92	
							2	64	10.87	Final pumping rate
MW-19	Shallow	March 1-2, 2017	15	20-Oct	7.7	7.3	0.5	36	Approx. 10	Pumped to pump intake

**Table 8
Bothell Service Center
Aquifer Test Summary**

Well ID	Well Depth, ft	Screened interval, ft bgs	SWL, ft TOC	Saturated depth, ft	Test duration, min	Test Pumping Rate, gpm	Rising Head Recovery		Notes
							Hydraulic conductivity (ft/day)	Transmissivity (ft ² /day)	
MW-06	25	10-25	7.96	17.04	68	0.6	7	106	Shallow/Intermediate well, Theis Analysis
MW-11	33	25-33	8.09	24.91	180	3	18	140	Intermediate well, Cooper-Jacob Analysis
MW-34	50	40-50	8.05	41.95	180	3.7	16	160	Deep well, Cooper-Jacob Analysis
MW-25	17.5	7.5-17.5	7.95	9.55	4	N/A - pumped to intake within 4 minutes	0.008	0.4	Shallow well, Bouwer-Rice Analysis
MW-26	35	25-35	7.67	27.33	120	2	6.6	66	Intermediate well, Cooper-Jacob Analysis
MW-27	16	6-16	7.95	8.05	130	0.16	0.4	4.3	Shallow well, Theis Analysis
MW-28	35	25-35	8.37	26.6	80	2.25	9.7	97	Intermediate well, Cooper-Jacob Analysis
MW-20	35	25-35	7.46	27.54	80	2	11	110	Intermediate well, Cooper-Jacob Analysis
MW-19	20	10-20	7.7	12.3	36	0.5	0.4	3.7	Shallow well, Theis Analysis

Analysis Methods -

Cooper-Jacob Recovery: https://pubs.usgs.gov/of/2002/ofr02197/spreadsheets/Pumping_Cooper-Jacob_RECOVERY.xls

Theis Recovery: <http://www.pointstar.com/Aquifer/InfiniteExtent.aspx>

Bouwer-Rice rising head slug test: http://www.groundwatersoftware.com/v8_n2_bouwer_rice.htm

Aquifer thickness based on individual well screened intervals

Table 9
Bothell Service Center
Observed Radius of Influence

Pumping well	Final pumping rate, gpm	Test minutes	Observation well	Distance from pumping well, feet	Observed drawdown
MW-28 (I)	2.25	80	MW-08 (D)	60.5	0.61
			MW-11 (I)	63	0.57
MW-26 (I)	0.7 (est.)	31	MW-26 (I)	25	0.35
			MW-11 (I)	88	0.12
			MW-08 (D)	92	0.08
MW-20 (I)	2	80	MW-32 (D)	37	0.72
			MW-26 (I)	39	0.62
			MW-11 (I)	48	0.59
			MW-08 (D)	54	0.28
MW-19 (S)	0.5	36	MW-01 (S)	11.5	0.85
			MW-02 (S)	38	0.06
			MW-06 (S)	51	0.05

Table 10
Bothell Service Center
Calculated Radius of Influence

Equation Input	Aquifer Zone		
	Shallow	Intermediate	Deep
avg K (feet/day)	0.19	2.34	3.5
avg K (meters/sec)	6.70E-07	8.25E-06	1.23E-05
sq root of K	8.18E-04	2.87E-03	3.51E-03
H-h (feet)	3.15	3.85	9.40
H-h (meters)	0.96	1.17	2.86
constant	3000	3000	3000
R (meters)	2.35	10.10	30.16
R (feet)	7.7	33.17	99.04

Notes

Calculated using $R_o = 3000(H-h)K^{1/2}$ where:

R_o = Radius of influence

3000 = Empirical constant

H-h = Observed drawdown at pumping well

K = Hydraulic conductivity (meters/sec)

Table 11
Bothell Service Center
Applicable or Relevant and Appropriate Requirements (ARARs)

ARAR	Applicability
Soil	
Model Toxics Control Act (WA 173-340-740, -747)	MTCA cleanup levels are applicable to Site soil.
Groundwater	
Model Toxics Control Act (WAC 173-340-720)	MTCA cleanup levels are applicable to Site groundwater.
Surface Water	
Model Toxics Control Act (WAC 173-340-730)	MTCA cleanup levels are applicable to the Site if remedial activities cause a release to surface water.
Air	
Washington Clean Air Act and Implementing Regulations (WAC 173-400; WAC 173-460; WAC 173-490)	Applicable for excavation activities
Model Toxics Control Act (WAC 173-340-750)	MTCA cleanup levels are applicable to the Site if remedial activities cause a release to air.
Miscellaneous	
Protection of Wetlands, Executive Order 11990 (40 CFR Part 6, Appendix A)	This Act is unlikely to be applicable to remedial activities at the Site, as no wetlands are present.
Native American Graves Protection and Repatriation Act (43 CFR Part 10)	This act is applicable to remedial actions at the Site because it is possible that the disturbance of Native American materials could occur as a result of work in subsurface excavations at the Site. Such materials are not known to be present at the Site.
Nation Historic Preservation Act (36 CFR Parts 60, 63, and 800)	This Act is applicable to subsurface work at the Site. No such Sites are known to be present in the area.
Washington Hazardous Waste Management Act (WAC 173-303)	This regulation is applicable to handling of contaminated media at the Site. The contamination policy allows contaminated media to be consolidated within the same area of a site without triggering Resource Conservation and Recovery Act or Washington dangerous waste regulations
Department of Transportation of Hazardous Wastes (49 CFR 105-180)	Applicable to remedial activities that involve the off-site transportation of hazardous waste.
Washington Solid Waste Handling Standards (WAC 173-350)	These regulations are applicable to solid nonhazardous wastes and are relevant and appropriate to on-site remedial actions governing contaminated media management.
Washington Water Well Construction Act Regulations (WAC 173-160)	These regulations are applicable to the installation, operation, or closure of monitoring and treatment wells at the Site.

DRAFT

**Attachment A
Soil Boring and Groundwater Monitoring Well Logs**



ERM
915 116th Avenue SE
Suite 100
Bellevue, Washington 98005
(425) 452-0591

BOREHOLE LOG

Site Id: GP-1

Page 1 of 1

Project Number: 4244.40

Bore Diameter: 2.00in

Project Name: Bothell Service Center

Total Depth: 10.00'

Location: Bothell, Washington

Elevation: Not Available

Contractor: Cascade Drilling Inc.

X Coordinate: Not Available

Drilling Method: Direct-Push

Y Coordinate: Not Available

Logged By: D. Wyll

Date(s): 07/31/00

Depth (ft)	Graphic Log	USCS Code	PID (ppm)	Sample Recovery	Water Level	Soil Description and Observations
0-0.2'		SP				0-0.2' Asphaltic concrete.
0.2-2.0'		GP	0.0			0.2-2.0' GRAVELLY SAND (SP): gray, fine to medium grained sand, scattered cobbles, medium dense, moist (fill). Difficult drilling due to gravel and cobbles.
2.0-5.6'		GP	0.0			2.0-5.6' SANDY GRAVEL (GP): gray, fine gravel, some silt and scattered cobbles, medium dense, moist (fill).
5.6-10.0'		SP	0.0		▽	Wet below 5.5 feet bgs. 5.6-10.0' SAND (SP): gray, fine grained, some silt, medium dense, wet. Collected ground water sample from 6.0-10.0 feet bgs.
10.0'			0.0			Bottom of Boring - 10.0 feet bgs.



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BOREHOLE LOG

Site Id: GP-2
Page 1 of 1

Project Number: 4244.40

Bore Diameter: 2.00in

Project Name: Bothell Service Center

Total Depth: 12.00'

Location: Bothell, Washington

Elevation: Not Available

Contractor: Cascade Drilling Inc.

X Coordinate: Not Available

Drilling Method: Direct-Push

Y Coordinate: Not Available

Logged By: D. Wyl

Date(s): 07/31/00

Depth (ft)	Graphic Log	USCS Code	PID (ppm)	Sample Recovery	Water Level	Soil Description and Observations
0.0 - 0.2		SP				0.-0.2' Asphaltic concrete.
0.2 - 5.5			1.2			0.2-5.5' SAND (SP): brownish-gray, fine to medium grained, some gravel, trace silt, medium dense, moist (fill).
5.5 - 12.0		SM	3.1			5.5-12.0' SILTY SAND (SM): grayish-brown, fine grained, medium dense, moist. Wet below 6.0 feet bgs. Collected ground water sample from 8.0-12.0 feet bgs.
12.0			5.2			Bottom of Boring - 12.0 feet bgs.



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BOREHOLE LOG

Site Id: GP-3
 Page 1 of 1

Project Number: 4244.40

Bore Diameter: 2.00in

Project Name: Bothell Service Center

Total Depth: 12.00'

Location: Bothell, Washington

Elevation: Not Available

Contractor: Cascade Drilling Inc.

X Coordinate: Not Available

Drilling Method: Direct-Push

Y Coordinate: Not Available

Logged By: D. Wyl

Date(s): 07/31/00

Depth (ft)	Graphic Log	USCS Code	PIID (ppm)	Sample Recovery	Water Level	Soil Description and Observations
0-1.0'		SM				0-1.0' SILTY SAND (SM): brown, fine to medium grained, medium dense, moist (fill).
1.0-6.0'		SP				1.0-6.0' SAND (SP): brownish-gray, fine to medium grained, some fine gravel, medium dense, moist (fill).
5-6.0'		SP				6.0-8.8' SAND (SP): brownish-gray, fine to medium grained, trace silt, medium dense, moist (fill).
8.8-12.0'		SM				8.8-12.0' SILTY SAND (SM): brown, fine grained, medium dense, wet. Collected ground water sample from 8.0-12.0 feet bgs.
						Bottom of Boring - 12.0 feet bgs.



ERM
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BOREHOLE LOG

Site Id: MW-1
Page 1 of 1

Project Number: 4244.40
Project Name: Bothell Service Center
Location: Bothell, Washington
Contractor: Cascade Drilling Inc.
Drilling Method: Hollow Stem Auger
Logged By: M. Jaffe
Date(s): 03/09/01
Initial Water Level: 11.00'

Total Depth: 20.00'
Completed Depth: 20.00'
Borehole Dia.: 8.00in

Blank Casing:			
type: Sch 40 PVC	dia: 2.00in	fm: 0.0'	to: 5.00'
Screens:			
type: Slotted	size: 0.010in	dia: 2.00in	fm: 5.00' to: 20.00'
Annular Fill:			
type: Concrete		fm: 0.00'	to: 1.50'
type: Bentonite Chips		fm: 1.50'	to: 4.00'
type: #2/12 Colorado Silica Sand		fm: 4.00'	to: 20.00'

Depth (ft)	Graphic Log	USCS Code	Well Construction	Sample Recovery	Recovery (%)	Water Level	Description/Soil Classification
0-0.3'		SP					0-0.3' Asphaltic concrete.
0.3-4.0'		SP					0.3-4.0' SAND (SP): brown, fine to medium grained, some gravel and silt, medium dense, moist (fill).
4.0-10.1'		SP			33		4.0-10.1' SAND (SP): brown, fine grained, trace gravel and silt, medium dense, moist.
10.1-15.0'		ML			78		10.1-15.0' SANDY SILT (ML): gray, medium stiff, moist. Wet below 11.0 feet bgs.
15.0-20.0'		SM			100		15.0-20.0' SILTY SAND (SM): gray, fine to medium grained, trace gravel, medium dense, wet.
					100		Silt decreases below 18.0 feet bgs. Bottom of Boring - 20.0 feet bgs.

BOREHOLE LOG

Project Number: 4244.40
 Project Name: Bothell Service Center
 Location: Bothell, Washington
 Contractor: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: M. Jaffe
 Date(s): 03/09/01
 Initial Water Level: 11.00'

Total Depth: 20.00'
 Completed Depth: 20.00'
 Borehole Dia.: 8.00in

Blank Casing:			
type: Sch 40 PVC	dia: 2.00in	fm: 0.0'	to: 5.00'
Screens:			
type: Slotted	size: 0.010in	dia: 2.00in	fm: 5.00' to: 20.00'
Annular Fill:			
type: Concrete		fm: 0.00'	to: 1.50'
type: Bentonite Chips		fm: 1.50'	to: 4.00'
type: #2/12 Colorado Silica Sand		fm: 4.00'	to: 20.00'

Depth (ft)	Graphic Log	USCS Code	Well Construction	Sample Recovery	Recovery (%)	Water Level	Description/Soil Classification
0-10.0'		SP			56		0-10.0' SAND (SP): brown, fine to medium grained, some silt and gravel, medium dense, moist (fill).
10-20.0'		SM			17	11.00'	10.0-20.0' SILTY SAND (SM): gray, fine grained, medium dense, moist. Wet below 11.0 feet bgs.
15					100		
20					100		Bottom of Boring - 20.0 feet bgs.



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BOREHOLE LOG

Site Id: MW-3
Page 1 of 1

Project Number: 4244.40

Project Name: Bothell Service Center

Location: Bothell, Washington

Contractor: Cascade Drilling Inc.

Drilling Method: Hollow Stem Auger

Logged By: M. Jaffe

Date(s): 03/09/01

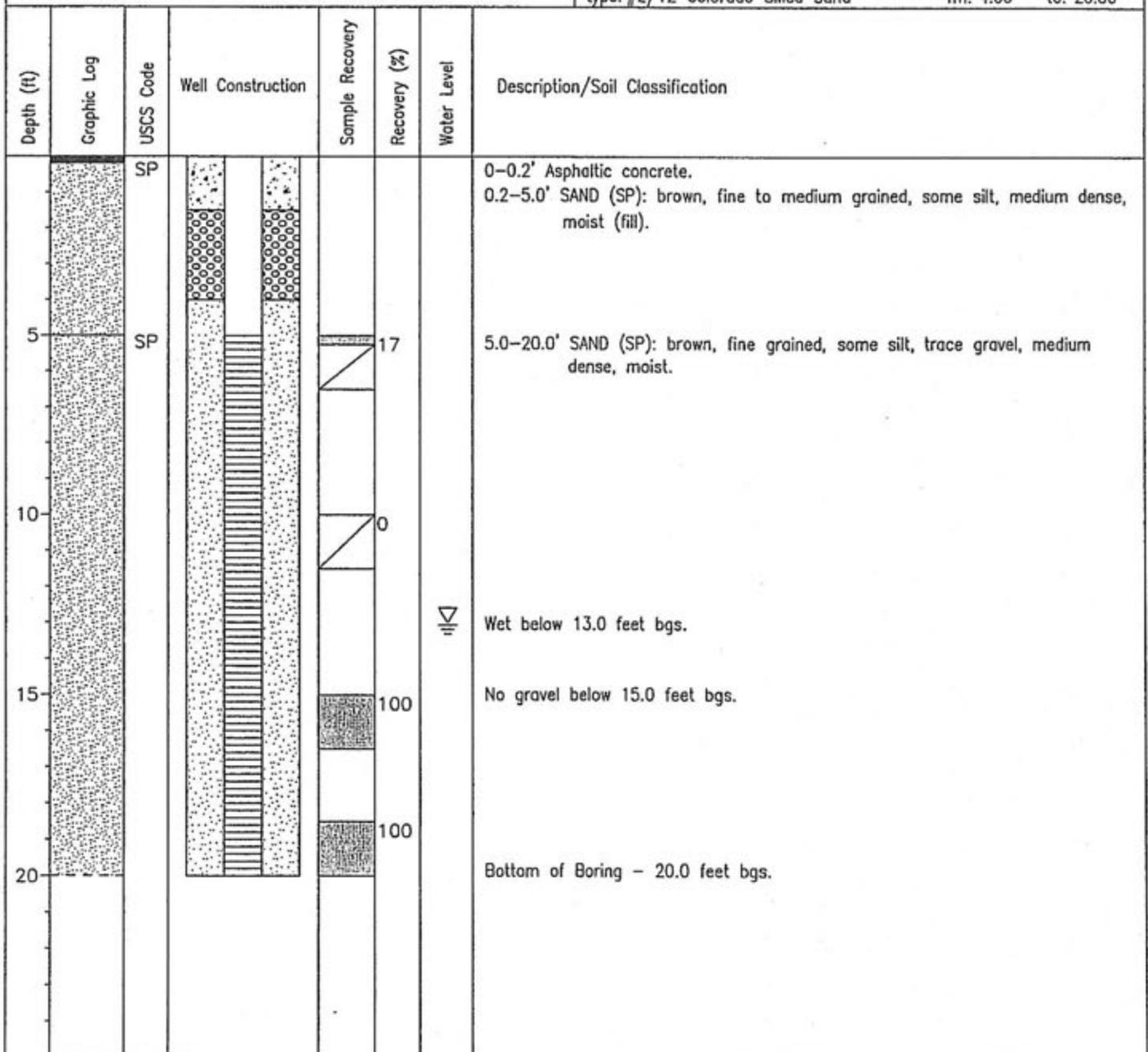
Initial Water Level: 13.00'

Total Depth: 20.00'

Completed Depth: 20.00'

Borehole Dia.: 8.00in

Blank Casing:			
type: Sch 40 PVC	dia: 2.00in	fm: 0.0'	to: 5.00'
Screens:			
type: Slotted	size: 0.010in	dia: 2.00in	fm: 5.00' to: 20.00'
Annular Fill:			
type: Concrete		fm: 0.00'	to: 1.50'
type: Bentonite Chips		fm: 1.50'	to: 4.00'
type: #2/12 Colorado Silica Sand		fm: 4.00'	to: 20.00'





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BOREHOLE LOG

Site Id: MW-4
 Page 1 of 1

Project Number: 4244.40
 Project Name: Bothell Service Center
 Location: Bothell, Washington
 Contractor: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: M. Jaffe
 Date(s): 06/20/01
 Initial Water Level: Not Available

Total Depth: 25.00'
 Completed Depth: 25.00'
 Borehole Dia.: 8.00in

Blank Casing:			
type: Sch 40 PVC	dia: 2.00in	fm: 0.0'	to: 10.00'
Screens:			
type: Slotted	size: 0.010in	dia: 2.00in	fm: 10.00' to: 25.00'
Annular Fill:			
type: Concrete		fm: 0.00'	to: 1.50'
type: Bentonite Chips		fm: 1.50'	to: 9.00'
type: #2/12 Colorado Silica Sand		fm: 9.00'	to: 25.00'

Depth (ft)	Graphic Log	USCS Code	Well Construction	Sample Recovery	Recovery (%)	Water Level	Description/Soil Classification
0-0.2		SP					0-0.2' Asphaltic concrete.
0.2-4.0							0.2-4.0' GRAVELLY SAND (SP): brown, fine to medium grained, medium dense, moist (fill).
4.0-25.0		SM					4.0-25.0' SILTY SAND (SM): brown, fine grained, medium dense, moist.
Bottom of Boring - 25.0 feet bgs.							



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BOREHOLE LOG

Site Id: MW-5
Page 1 of 1

Project Number: 4244.40
Project Name: Bothell Service Center
Location: Bothell, Washington
Contractor: Cascade Drilling Inc.
Drilling Method: Hollow Stem Auger
Logged By: M. Jaffe
Date(s): 06/20/01
Initial Water Level: 8.00'

Total Depth: 25.00'
Completed Depth: 25.00'
Borehole Dia.: 8.00in

Blank Casing:			
type: Sch 40 PVC	dia: 2.00in	fm: 0.0'	to: 10.00'
Screens:			
type: Slotted	size: 0.010in	dia: 2.00in	fm: 10.00' to: 25.00'
Annular Fill:			
type: Concrete		fm: 0.00'	to: 1.50'
type: Bentonite Chips		fm: 1.50'	to: 9.00'
type: #2/12 Colorado Silica Sand		fm: 9.00'	to: 25.00'

Depth (ft)	Graphic Log	USCS Code	Well Construction	Sample Recovery	Recovery (%)	Water Level	Description/Soil Classification
0-0.2'		SP					0-0.2' Asphaltic concrete.
0.2-4.0'		SP					0.2-4.0' GRAVELLY SAND (SP): brown, fine to medium grained, medium dense, moist (fill).
4.0-25.0'		SM					4.0-25.0' SILTY SAND (SM): brown, fine grained, medium dense, moist.
							Wet below 8.0 feet bgs.
							Bottom of Boring - 25.0 feet bgs.



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BOREHOLE LOG

Site Id: MW-7
 Page 1 of 1

Project Number: 4244.40
 Project Name: Bothell Service Center
 Location: Bothell, Washington
 Contractor: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: M. Jaffe
 Date(s): 06/20/01
 Initial Water Level: 8.00'

Total Depth: 25.00'
 Completed Depth: 25.00'
 Borehole Dia.: 8.00in

Blank Casing:			
type: Sch 40 PVC	dia: 2.00in	fm: 0.0'	to: 10.00'
Screens:			
type: Slotted	size: 0.010in	dia: 2.00in	fm: 10.00' to: 25.00'
Annular Fill:			
type: Concrete		fm: 0.00'	to: 1.50'
type: Bentonite Chips		fm: 1.50'	to: 9.00'
type: #2/12 Colorado Silica Sand		fm: 9.00'	to: 25.00'

Depth (ft)	Graphic Log	USCS Code	Well Construction	Sample Recovery	Recovery (%)	Water Level	Description/Soil Classification
0-0.2		SP					0-0.2' Asphaltic concrete.
0.2-3.0							0.2-3.0' GRAVELLY SAND (SP): brown, fine to medium grained, medium dense, moist (fill).
3.0-25.0		SM					3.0-25.0' SILTY SAND (SM): brown to gray, fine grained, medium dense, moist.
							Wet below 8.0 feet bgs.
							Bottom of Boring - 25.0 feet bgs.



FARALLON CONSULTING
 975 5th Avenue Northwest
 Issaquah, WA 98027

USCS Classification and Graphic Legend

Major Divisions	USCS Graphic Symbol	USCS Letter Symbol	Lithologic Description
-----------------	---------------------	--------------------	------------------------

Coarse-Grained Soil (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		GW	Well graded GRAVEL, well graded GRAVEL with sand
		GRAVEL WITH FINES (Appreciable amount of fines)		GP	Poorly graded GRAVEL, GRAVEL with sand
				GP-GM	Poorly graded GRAVEL - GRAVEL with sand and silt
				GM	Silty GRAVEL
	SAND AND SANDY SOIL (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		SW	Well graded SAND
				SP	Poorly graded SAND
		SAND WITH FINES (Appreciable amount of fines)		SP-SM	Poorly graded SAND - silty SAND
				SM	Silty SAND
				SC	Clayey SAND
				SM-ML	SILT - Silty SAND
Fine-Grained Soil (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid limit less than 50)		ML	SILT	
			CL	CLAY	
			OL	Organic SILT	
	SILT AND CLAY (Liquid limit greater than 50)		MH	Inorganic SILT	
			CH	Inorganic CLAY	
			OH	Organic CLAY	
			PT	Peat	
OTHER MATERIALS	PAVEMENT		AC	Asphalt concrete	
			CO	Concrete	
	OTHER		RK	Bedrock	
			WD	Wood Debris	
			DB	Debris (Miscellaneous)	
			PC	Portland cement	

Legend	
	Sample Interval
	Grab Sample Interval
	Water level at time of drilling
	Water level at time of sampling
	Blank Casing
	Screened Casing
	Cement Grout
	Bentonite
	Sand Pack
	Well Cap
	Solid line indicates sharp contact between units well defined.
	Dashed line indicates gradational contact between units.
feet bgs = feet below ground surface	
NE = Not Encountered	
NA = Not Applicable	
PID = Photolonization Detector	
PN = Project Number	
units = PID units calibrated to 100 ppm isobutylene	
USCS = Unified Soil Classification System	



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 320 3rd Avenue NE
 Issaquah, WA 98027

LOG OF WELL MW-8

(Page 1 of 2)

SITE NAME: Bothell Service Center
 CLIENT: Bothell Service Center Associates
 CITY, STATE: Bothell, Washington

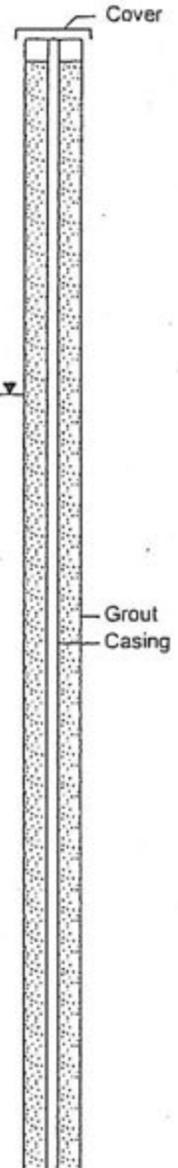
Farallon PN: 801-001
 Logged By: Jennifer Cyr

Date/Time Started : 9/26/02 08:40
 Date/Time Completed : 9/26/02 13:00
 Equipment : Hollow Stem Auger
 Drilling Company : Cascade Drilling
 Drilling Forman : Scott Krueger

Drilling Method : Hollow Stem Auger
 Sampler Type : D & M 300lb Hammer
 Depth Of Water ATD : 8 feet
 Total Well Depth : 50 feet
 Total Boring Depth : 50 feet

Depth in Feet	Sample Interval	Blow Counts 5/6/6	% Recovery	Sample ID	Samples Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
0									0 to 0.2' Asphalt
							GP		0.2' - 5.0' Gravelly Sand, fine to coarse sand and gravel, minor cobbles, medium brown, moist, no odor (Hand dug).
5	9/12/13	100					0 SW		5.0' - 6.5' SAND with gravel, coarse to fine sand, fine gravel, medium brown, medium dense, moist, no odor.
	6/11/13	100		6.5-8.0	X		0 SP		6.5'-8.0' SAND, fine, medium brown, medium dense, moist, no odor.
	9/13/7	100					0 SP		8.0'-9.5' Same as above, wet.
10	13/17/16	100					0 SM		9.5'-11.0' Silty SAND, fine sand, medium grey, medium dense, wet, no odor.
	11/13/15	100					3 SM		11' - 11.5' Same as above.
	13/15/14	100					22 SP		11.5'-12.5' SAND, fine to medium, trace silt, rust to medium brown, medium dense, moist, no odor.
	14/15	100					85 SP		12.5' - 14.0' Same as above.
15	22/27/26	100					12.8 SP		14.0'-15.0' Same as above, medium brown, wet, slight odor.
	18/22/24	100					3.1 SP		15' - 16.5' Same as above, dense, moist, no odor, some silica sand slough from temporary well installation.
	12/15/15	100					2.0 SP		16.5'-18' Same as above.
	12/14/16	100					3.2 SP		18.0'-19.5' SAND, fine to medium, trace silt, medium brown, medium dense, wet, no odor.
20	14/18/19	100					1.8 SP		19.5'-21' Same as above, fine sand only, moist.
	20/28/30	100					3.2 SP		21.0'-22.5' Same as above, very moist.
	20/27/31	100					3.1 SP		22.5'-24.0' SAND, fine to medium, trace silt, medium brown, dense, wet, no odor.
25									24.0'-25.5' Same as above.

Well: MW-8
 Elev.: 38.10



WELL INFORMATION

Casing: Schedule 40 PVC Grout: Concrete
 Screen: 0.010 Slotted Seal: Bentonite Clay
 Sand Pack: 2/12 Silica Sand

LOG OF WELL MW-8

(Page 1 of 2)

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FARALLON CONSULTING
 320 3rd Avenue NE
 Issaquah, WA 98027

LOG OF WELL MW-8

(Page 2 of 2)

SITE NAME: Bothell Service Center
CLIENT: Bothell Service Center Associates
CITY, STATE: Bothell, Washington

Farallon PN: 801-001

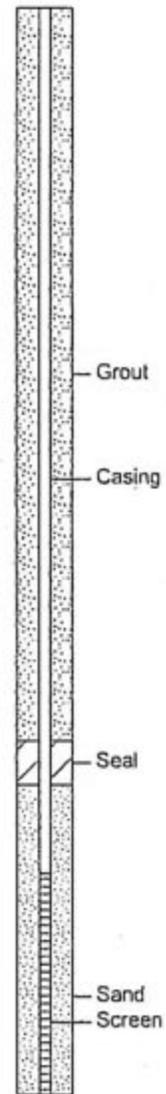
Logged By: Jennifer Cyr

Date/Time Started : 9/26/02 08:40
Date/Time Completed : 9/26/02 13:00
Equipment : Hollow Stem Auger
Drilling Company : Cascade Drilling
Drilling Forman : Scott Krueger

Drilling Method : Hollow Stem Auger
Sampler Type : D & M 300lb Hammer
Depth Of Water ATD : 8 feet
Total Well Depth : 50 feet
Total Boring Depth : 50 feet

Depth in Feet	Sample Interval	Blow Counts 6/6/6	% Recovery	Sample ID	Samples Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
25.5	20/28/35	100				3.6	SP		25.5'-27' Same as above, fine sand.
	28/35/39	100				2.0	SP		27'-28.5' Same as above, very dense.
	14/27/34	100				0	SP		28.5'-30' Same as above, fine to medium sand, dense.
30.5	18/30/35	100				0	SP		30.0'-31.5' SAND, fine, trace silt, medium brown, very dense, wet, no odor.
	18/33/40	100				0	SP		31.5'-33.0' Same as above, very moist.
	22/38/45	100				0	SM		33.0'-34.5' Silty SAND, fine sand, medium brown, very dense, wet, no odor.
35.5	25/28/32	100				0	ML		34.5'-35' Sandy SILT, fine sand, medium brown, dense, wet, no odor.
	32/35/40	100				0	SP		35.0'-36.0' SAND, fine, trace silt, medium brown, dense, wet, no odor.
	48/35/37	100				0	SM		36.0'-37.5' Silty SAND, fine sand, medium brown, very dense, wet, no odor.
	37/40/42	100				0	SP		37.5'-39.0' SAND, fine, trace silt, reddish-brown to medium brown, very dense, wet, no odor.
40.5	32/38/46	100				0	SP		39.0'-40.5' SAND, fine, trace silt, greyish-brown, very dense, very moist, no odor.
	38/40/45	100				0	SM		40.5'-42.0' Same as above, some mottles, wet, no odor.
	38/42/50	100				0	SM		42.0'-43.5' Silty SAND, fine sand, dark grey, very dense, wet, no odor.
45.5	32/41/48	100				0	SM		43.5'-45.0' Same as above.
	37 for 6	100				0	SM		45.0'-46.5' SAND with silt, fine sand, dark grey, very dense, wet, no odor.
	32/38/40	100				0	SM		46.5'-47.0' SAND with silt, fine to medium, dark grey, medium dense, wet, no odor.
	31/33/37	100				0	N/A		47.0'-48.5' Silica sand slough from temporary well installation.
50.5						0	SM		48.5'-50.0' Silty SAND, fine sand, dark grey, very dense, wet, no odor.
									Bottom of boring at 50 feet bgs

Well: MW-8
 Elev.: 38.10



WELL INFORMATION

Casing: Schedule 40 PVC Grout: Concrete
 Screen: 0.010 Slotted Seal: Bentonite Clay
 Sand Pack: 2/12 Silica Sand

LOG OF WELL MW-8

(Page 2 of 2)

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FARALLON CONSULTING
320 3rd Avenue NE
Issaquah, WA 98027

LOG OF WELL MW-9

(Page 1 of 2)

SITE NAME: Bothell Service Center
CLIENT: Bothell Service Center Associates
CITY, STATE: Bothell, Washington

Date/Time Started : 9/27/02 07:30
Date/Time Completed : 9/27/02 12:10
Equipment : Hollow Stem Auger
Drilling Company : Cascade Drilling
Drilling Foreman : Scott Krueger

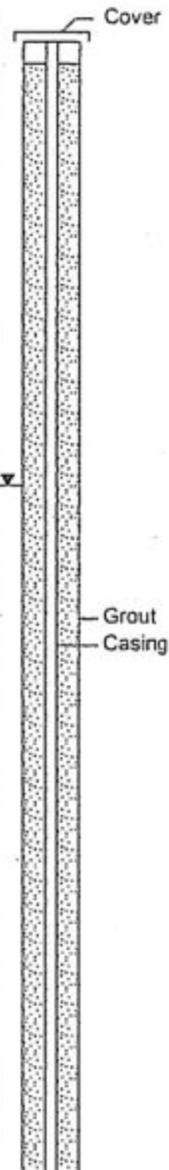
Drilling Method : Hollow Stem Auger
Sampler Type : D & M 300lb Hammer
Depth Of Water ATD : 10 feet
Total Well Depth : 50 feet
Total Boring Depth : 50 feet

Farallon PN: 801-001

Logged By: Jennifer Cyr

Depth in Feet	Sample Interval	Blow Counts 6/6/6	% Recovery	Sample ID	Samples Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
0							SP		0 to 1.0' SAND, fine to medium, with silt and fine gravel, medium brown, slightly moist, plant roots, no odor.
							SW		1.0'- 5.0' Gravelly SAND, fine to medium sand, fine to coarse gravel, medium brown, slightly moist, no odor (hand dug).
5		12/15/16	100				2.0 SW		5.0' - 6.5' SAND, fine to coarse, with fine gravel, minor silt, rust-colored to medium brown, medium dense, slightly moist, no odor.
		17/22/23	100	6.5-8.0	X	1,367	SW		6.5'-8.0' SAND, medium to coarse, minor fine gravel, trace silt, medium grey, dense, moist, strong odor.
		22/22/23	100			363	SP		8.0'-9.0' Same as above. 9.0'-9.5' SAND, fine, greyish-brown, dense, moist, strong odor.
10		12/22/22	100			36.3	SW		9.5'-10.0' SAND, medium to coarse, minor fine to coarse gravel, trace silt, medium grey, dense, moist, strong odor.
		11/17/30	100			25.1	SP		10.0'-11.0' SAND, fine, greyish-brown, dense, wet, slight odor.
		17/23/25	100			12.3	ML		11.0'-12.5' Same as above.
		23/25	100			42.5	SM		12.5' - 13.0' Sandy SILT, fine sand, light brown, dense, wet, no odor.
15		17/25/31	100			49.4	SP		13.0'-14.0' SAND with silt, fine sand, light brown, dense, wet, no odor.
		20/27/30	100			24.2	SP		14.0'-15.0' SAND, fine to medium, trace silt, medium brown, dense, wet, no odor.
		20/23/25	100			14.8	SP		15.0' - 16.5' Same as above, some silica sand slough from temporary well installation.
20		25/27/30	100			3.7	SP		16.5'-18' SAND, fine to medium, with silt, medium brown, dense, wet, no odor.
		25/27/29	100			2.8	ML		18.0'-19.5' SAND, fine, trace silt, medium brown, dense, wet, no odor.
		23/27/30	100			3.9	SM		19.5'-20.0' Same as above.
		25/38/32	100			3.2	SM		20.0'-21.0' Sandy SILT, fine sand, medium brown, dense, wet, no odor.
									21.0'-22.5' Silty SAND, fine sand, medium grey, dense, wet, no odor.
									22.5'-24.0' Same as above.
									24.0'-25.5' Same as above, very dense.

Well: MW-9
Elev.: 39.99



WELL INFORMATION

Casing: Schedule 40 PVC **Grout:** Concrete
Screen: 0.010 Slotted **Seal:** Bentonite Clay
Sand Pack: 2/12 Silica Sand

LOG OF WELL MW-9

(Page 1 of 2)



FARALLON CONSULTING
320 3rd Avenue NE
Issaquah, WA 98027

LOG OF WELL MW-9

(Page 2 of 2)

SITE NAME: Bothell Service Center
CLIENT: Bothell Service Center Associates
CITY, STATE: Bothell, Washington

Date/Time Started : 9/27/02 07:30
Date/Time Completed : 9/27/02 12:10
Equipment : Hollow Stem Auger
Drilling Company : Cascade Drilling
Drilling Forman : Scott Krueger

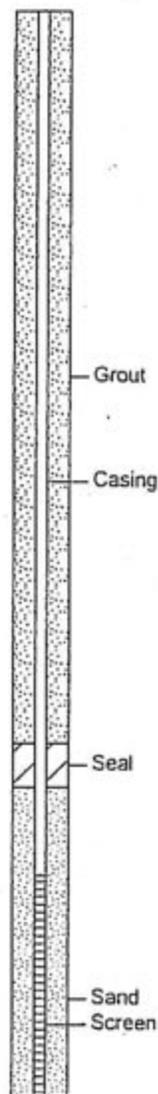
Drilling Method : Hollow Stem Auger
Sampler Type : D & M 300lb Hammer
Depth Of Water ATD : 10 feet
Total Well Depth : 50 feet
Total Boring Depth : 50 feet

Farallon PN: 801-001

Logged By: Jennifer Cyr

Depth in Feet	Sample Interval	Blow Counts 6/6/6	% Recovery	Sample ID	Samples Analyzed	PID (units)	USCS	GRAPHIC	DESCRIPTION
25.5	20/23/27	100				4.3	SP		25.5'-27.0' SAND, fine to medium, medium grey, dense, wet, no odor.
	21/22/30	100				3.4	SP		27'-28.5' Same as above, fine sand.
	28/22/29	100				4.1	SP		28.5'-30' Same as above, medium sand.
30.5	28/30/35	100				3.8	SP		30.0'-31.5' SAND, fine to medium, with silt, dark grey, very dense, wet, no odor.
	30/28/29	100				2.2	SP		31.5'-33.0' SAND, medium, minor silt, dark grey, dense, wet, no odor.
	20/32/37	100				3.1	SM		33.0'-34.5' Silty SAND, fine to medium, dark grey, very dense, wet, no odor.
35.5	28/35/39	100				3.9	SP		34.5'-36.0' SAND, fine to medium, trace silt, dark grey, very dense, wet, no odor.
	25/29/35	100				3.2	SP		36.0'-37.5' Same as above, dense.
	18/23/27	100				3.2	SP		37.5'-39.0' Same as above.
40.5	18/20/23	100				2.1	SP		39.0'-40.5' Same as above.
	15/18/21	100				1.5	SP		40.5'-42.0' Same as above.
	15/27/30	100				2.8	SP		42.0'-43.5' Same as above, dense.
45.5	18/21/27	100				2.1	SP		43.5'-45.0' Same as above.
	18/13/27	100				1.5	SP		45.0'-46.5' Same as above.
	19 for 6	100				1.8	SP		46.5'-47.0' Same as above.
50.5	Bottom of boring at 50 feet bgs								

Well: MW-9
Elev.: 39.99



12-30-2002 E:\Projects\801001 BSCAWorking Files\MW-9 bor

WELL INFORMATION

Casing: Schedule 40 PVC Grout: Concrete
Screen: 0.010 Slotted Seal: Bentonite Clay
Sand Pack: 2/12 Silica Sand

LOG OF WELL MW-9

(Page 2 of 2)

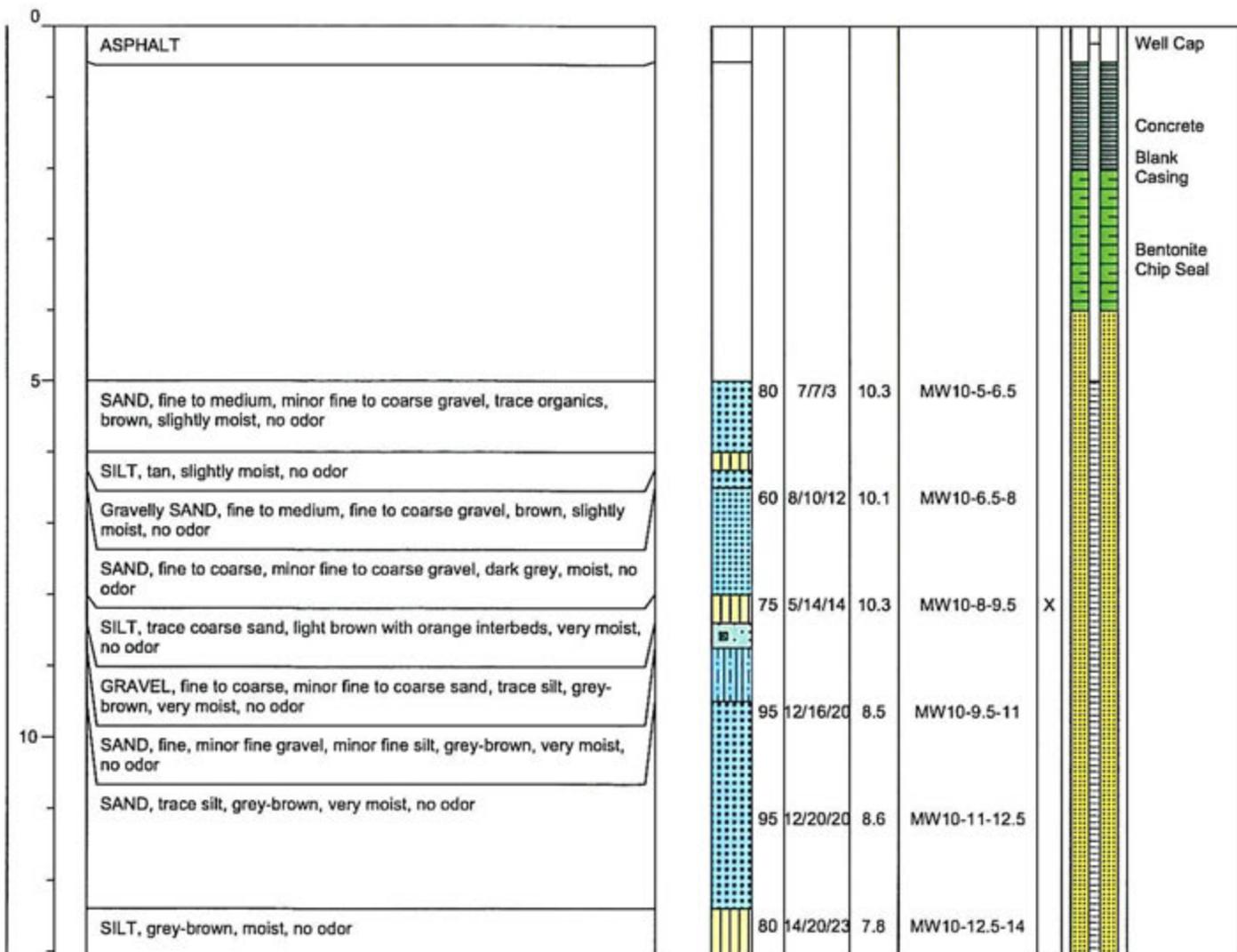
Client: Bothell Service Center
Project: Bothell Service Center
Location: Bothell, Washington

Date/Time Started: 10/14/03; 0820 **Sampler Type:** D&M SS 18
Date/Time Completed: 10/14/03; 1215 **Drive Hammer (lbs.):** 300
Equipment: CME 75 **Depth of Water ATD (ft bgs):** Not encountered
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 26
Drilling Foreman: Brian Gose **Total Well Depth (ft bgs):** 25
Drilling Method: Hollow Stem Auger

Farallon PN: 801-001

Logged By: Greg Lish

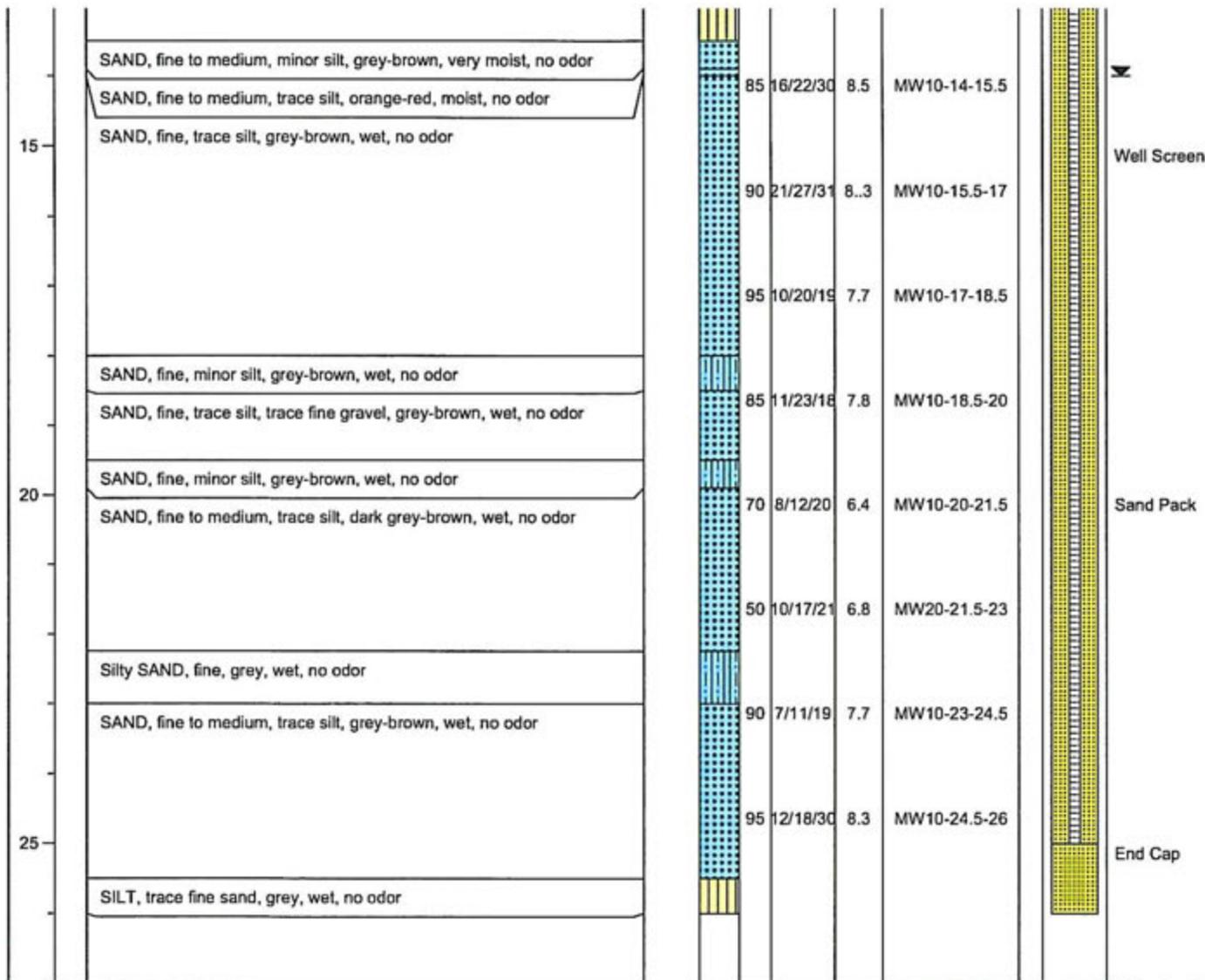
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
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Well Construction Information		
Monument Type: Flush Mount Steel	Filter Pack: #2/12 Medium Monterey Sand	Ground Surface Elevation (ft):
Casing Diameter (inches): 2	Surface Seal: Concrete	Top of Casing Elevation (ft):
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite Chips	Boring Abandonment: Bentonite
Screened Interval (ft bgs): 5 & 25	Surveyed Location: X: Y:	



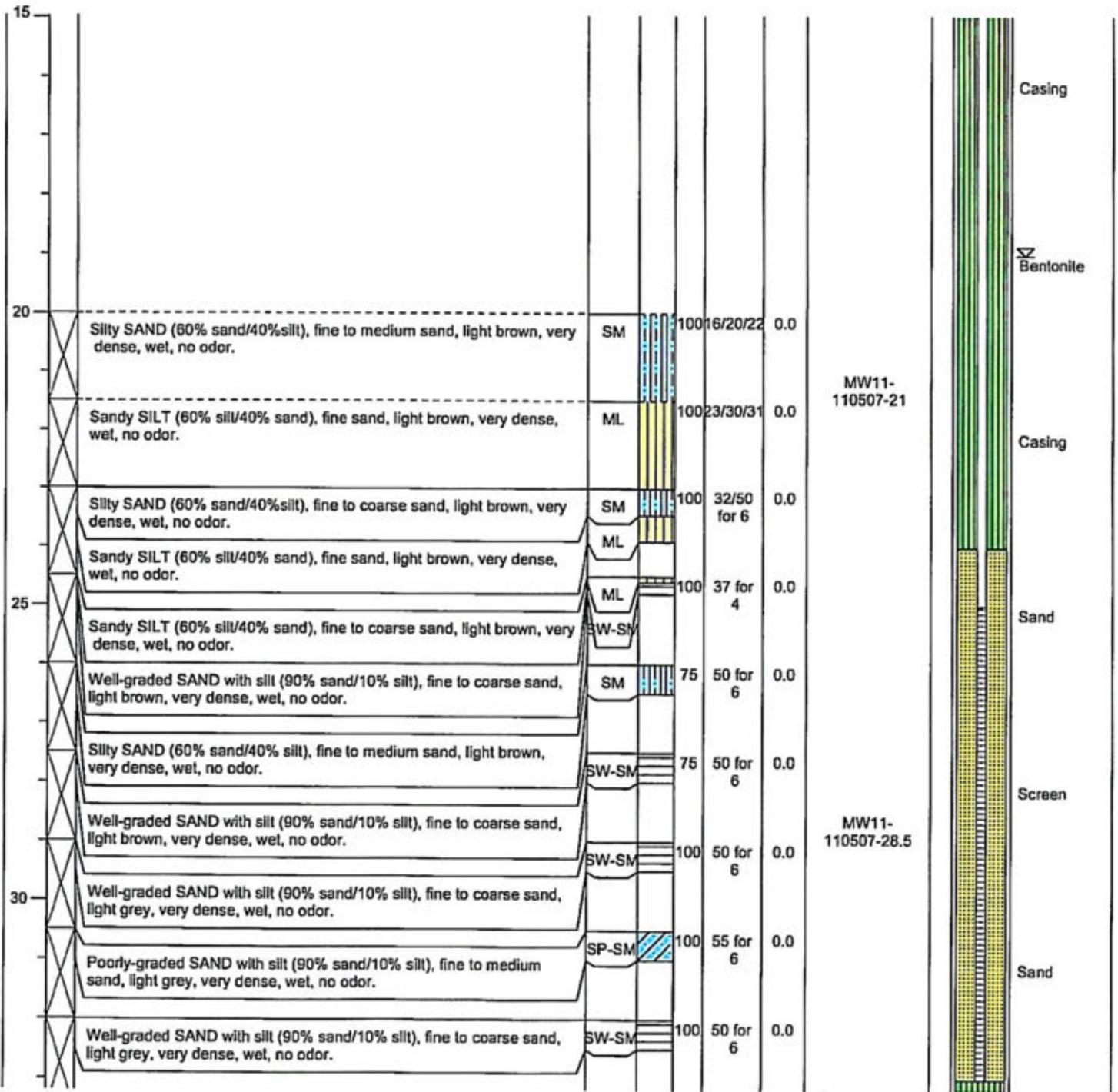
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Well Construction Details
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Well Construction Information		
Monument Type: Flush Mount Steel	Filter Pack: #2/12 Medium Monterey Sand	Ground Surface Elevation (ft):
Casing Diameter (inches): 2	Surface Seal: Concrete	Top of Casing Elevation (ft):
Screen Slot Size (inches): 0.010	Annular Seal: Bentonite Chips	Boring Abandonment: Bentonite
Screened Interval (ft bgs): 5 & 25	Surveyed Location: X: Y:	



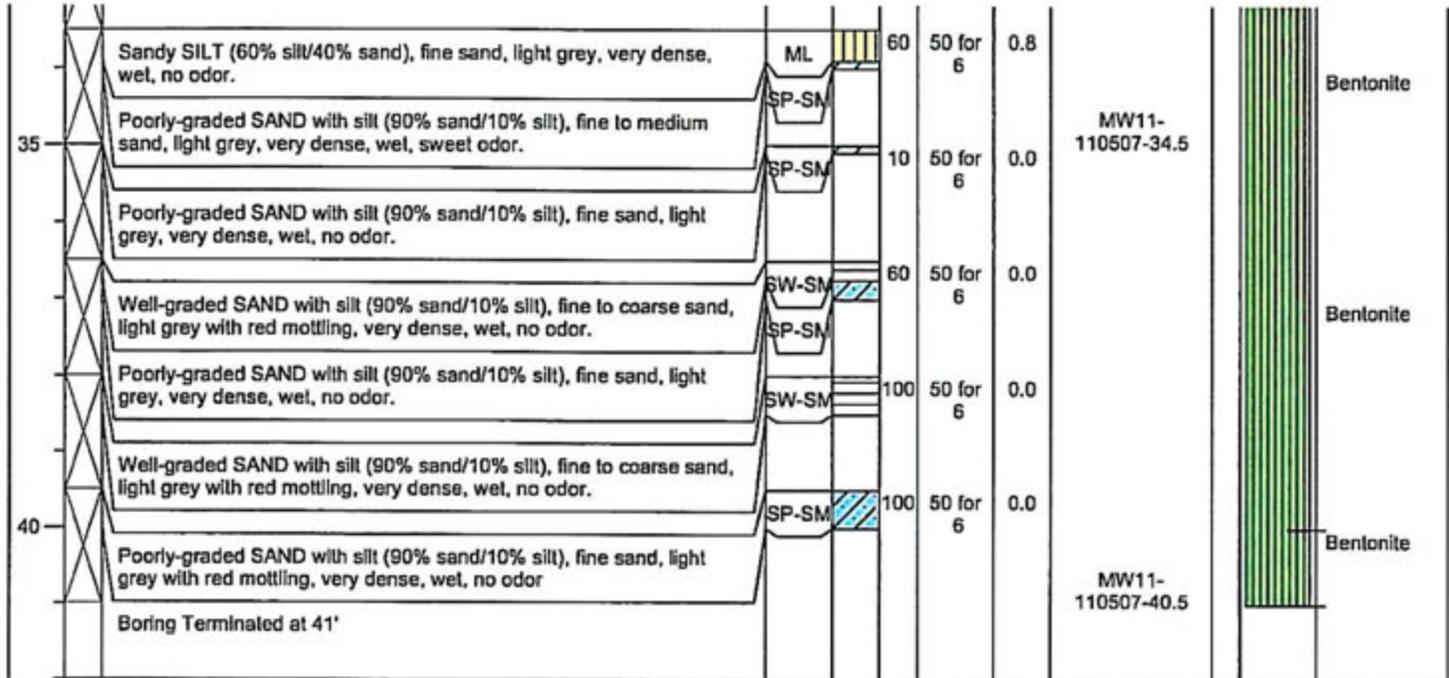
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Well Construction Details
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Well Construction Information		
Monument Type: Flush mount	Filter Pack: Sand	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.020	Annular Seal: Bentonite	Boring Abandonment: NA
Screened Interval (ft bgs): 25 - 33	Surveyed Location: X: NA	Y: NA



Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Well Construction Details
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Well Construction Information			
Monument Type: Flush mount	Filter Pack: Sand	Ground Surface Elevation (ft):	NA
Casing Diameter (Inches): 2	Surface Seal: Concrete	Top of Casing Elevation (ft):	NA
Screen Slot Size (Inches): 0.020	Annular Seal: Bentonite	Boring Abandonment:	NA
Screened Interval (ft bgs): 25 - 33		Surveyed Location: X: NA	Y: NA



Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts B/B/B	PID (ppm)	Sample ID	Sample Analyzed	Well Construction Details
15										Casing
										Bentonite
20		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey, very dense, moist to wet, no odor in top 12", sweet odor in last 6".	SP-SM		100	20/27/32	5.7	MW12-110507-21		Casing
		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey, very dense, wet, no odor.	SP-SM		100	17/19/23	0.0			Casing
		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey, very dense, wet, no odor.	SP-SM		100	19/20/23	0.0			
25		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey, very dense, wet, no odor.	SP		100	6/12/14	0.0			Sand
		Poorly-graded SAND (100% sand), fine to coarse sand, light grey with red mottling, medium dense, wet, no odor.	SP		100	20/22/30	0.0			
		Silty SAND (60% sand/40% silt), fine sand, light grey with red mottling, medium dense, wet, no odor.	SM		100	17/20/22	0.2			Screen
		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey with red mottling, medium dense, wet, no odor.	SP-SM		40	20/26/33	0.3			
30		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey, very dense, wet, no odor.	SP-SM		50	33/50 for 6	0.0			Sand
		SILT with sand (75% silt/25% sand), fine sand, light grey, very dense, wet, no odor.	ML		40	50 for 6	0.0	MW12-110507-32.5		

Well Construction Information			Ground Surface Elevation (ft):	NA
Monument Type: Flush mount	Filter Pack: Sand	Top of Casing Elevation (ft):	NA	
Casing Diameter (inches): 2	Surface Seal: Concrete	Boring Abandonment:	NA	
Screen Slot Size (inches): 0.020	Annular Seal: Bentonite	Surveyed Location: X: NA	Y: NA	
Screened Interval (ft bgs): 25 - 33				



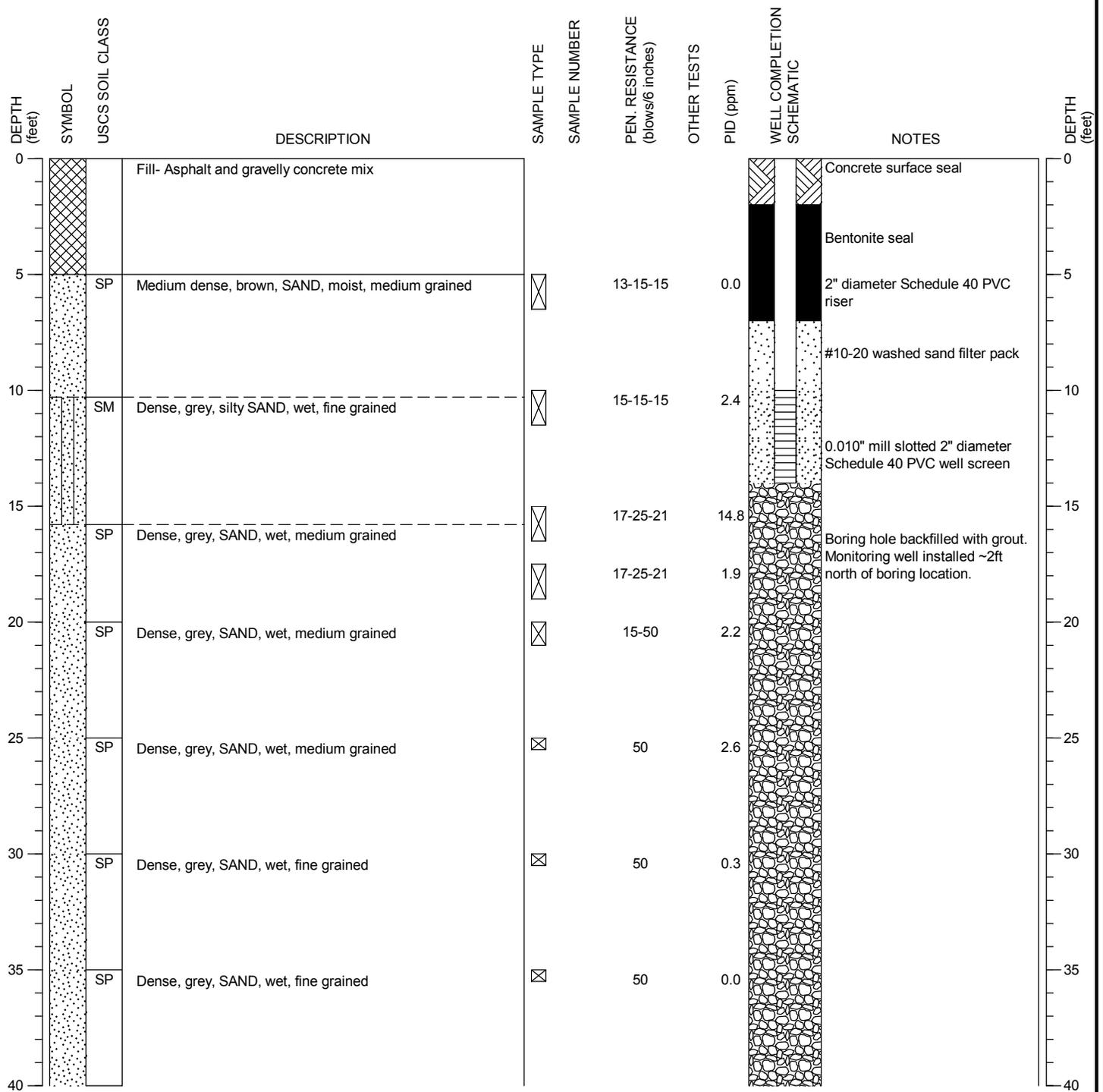
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Well Construction Details
35		SILT with sand (75% silt/25% sand), fine sand, light grey, very dense, wet, no odor.	ML		30	50 for 6	0.0			Bentonite
		Heaving sands. Poorly-graded SAND (100% sand), fine to coarse sand, light grey, very dense, wet, no odor.	SP		40	50 for 6	0.0			Bentonite
		Heaving sands. Poorly-graded SAND (100% sand), fine to coarse sand, light brown grading to light grey, very dense, wet, no odor.	SP		30	50 for 6	0.0			Bentonite
		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey, very dense, wet, no odor.	SP-SM		100	50 for 6	0.0			Bentonite
40		Poorly-graded SAND with silt (90% sand/10% silt), fine to coarse sand, light grey, very dense, wet, no odor.	SP-SM		40	50 for 6	0.0	MW12-110507-40		Bentonite

Well Construction Information			
Monument Type: Flush mount	Filter Pack: Sand	Ground Surface Elevation (ft): NA	
Casing Diameter (inches): 2	Surface Seal: Concrete	Top of Casing Elevation (ft): NA	
Screen Slot Size (inches): 0.020	Annular Seal: Bentonite	Boring Abandonment: NA	
Screened Interval (ft bgs): 25 - 33	Surveyed Location: X: NA Y: NA		

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)
 LOCATION: 18107 Bothell Way NE, Bothell, WA

SURFACE ELEVATION: 47.83 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 11/10/2015
 DATE COMPLETED: 11/11/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

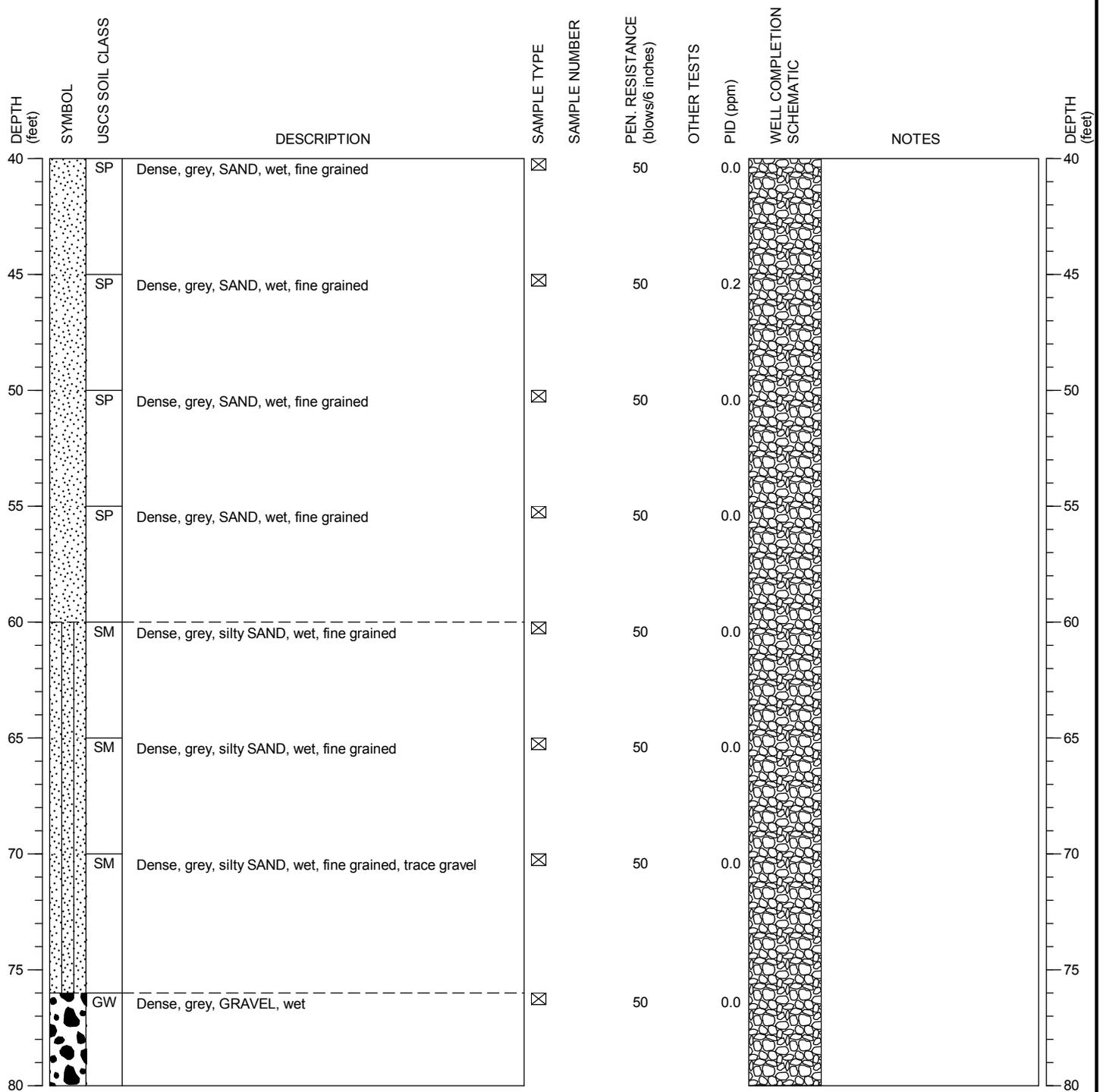
MONITORING WELL:
 MW-19

PAGE: 1 of 2

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)
 LOCATION: 18107 Bothell Way NE, Bothell, WA

SURFACE ELEVATION: 47.83 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 11/10/2015
 DATE COMPLETED: 11/11/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

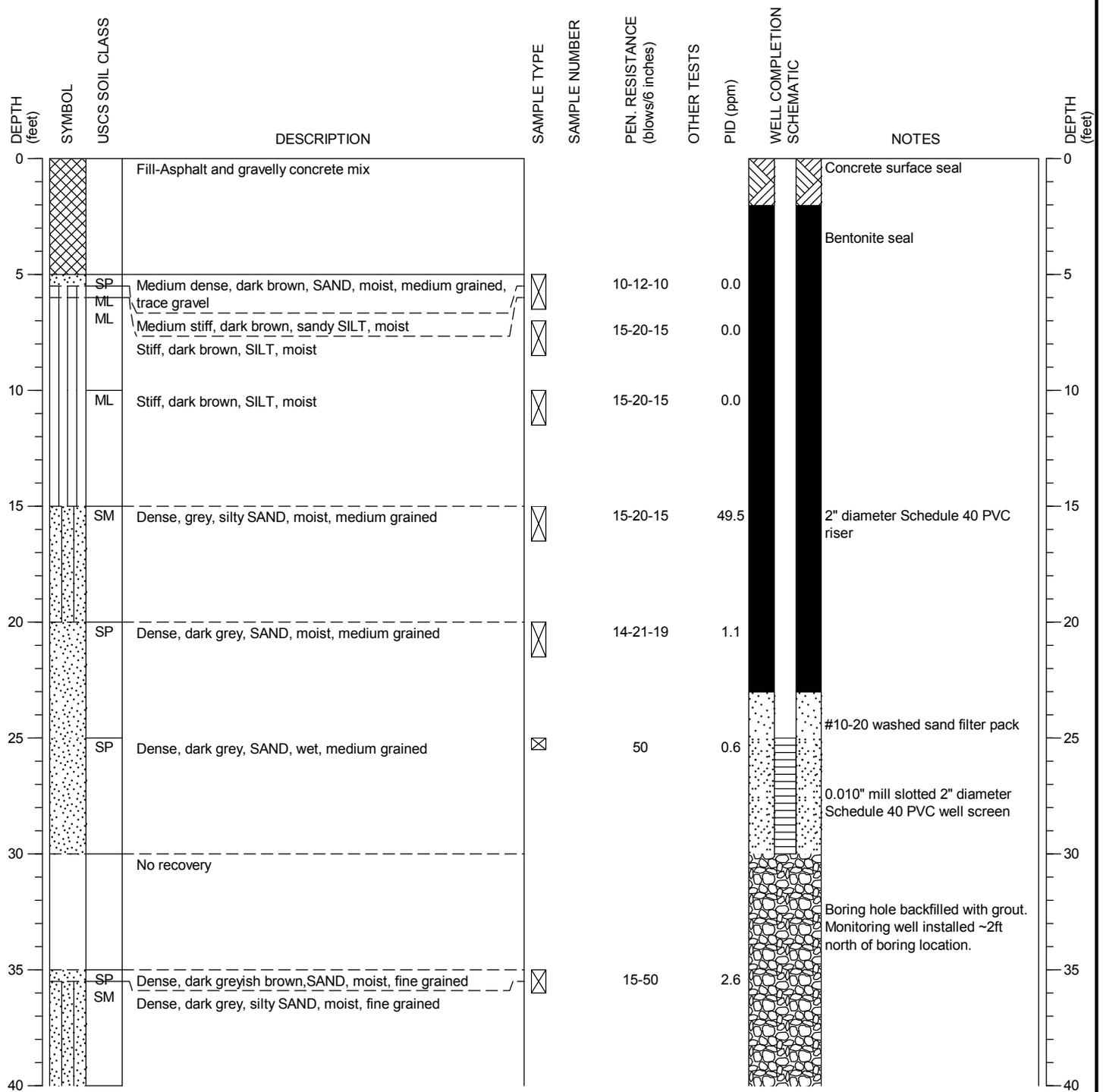
MONITORING WELL:
 MW-19

PAGE: 2 of 2

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)
 LOCATION: 18107 Bothell Way NE, Bothell, WA

SURFACE ELEVATION: 47.24 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 11/9/2015
 DATE COMPLETED: 11/10/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

MONITORING WELL:
 MW-20

PAGE: 1 of 2

DRILLING COMPANY: Cascade Drilling, Inc.

SURFACE ELEVATION: 47.24 ± feet

DATE STARTED: 11/9/2015

DRILLING METHOD: Hollow Stem Auger

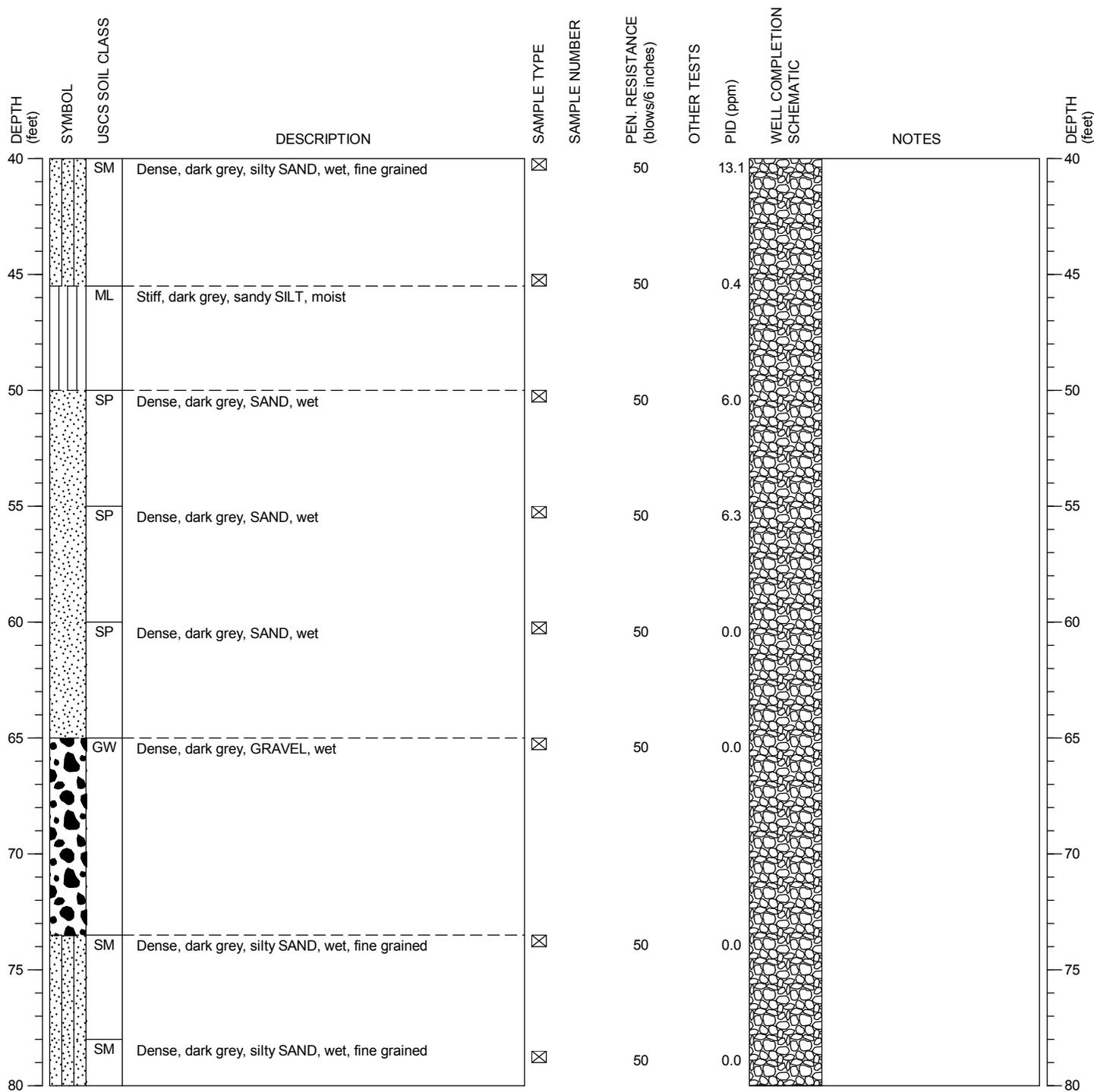
CASING ELEVATION ± feet

DATE COMPLETED: 11/10/2015

SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)

LOGGED BY: A. York

LOCATION: 18107 Bothell Way NE, Bothell, WA



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
18107 Bothell Way NE
Bothell, Washington

MONITORING WELL:
MW-20

PAGE: 2 of 2

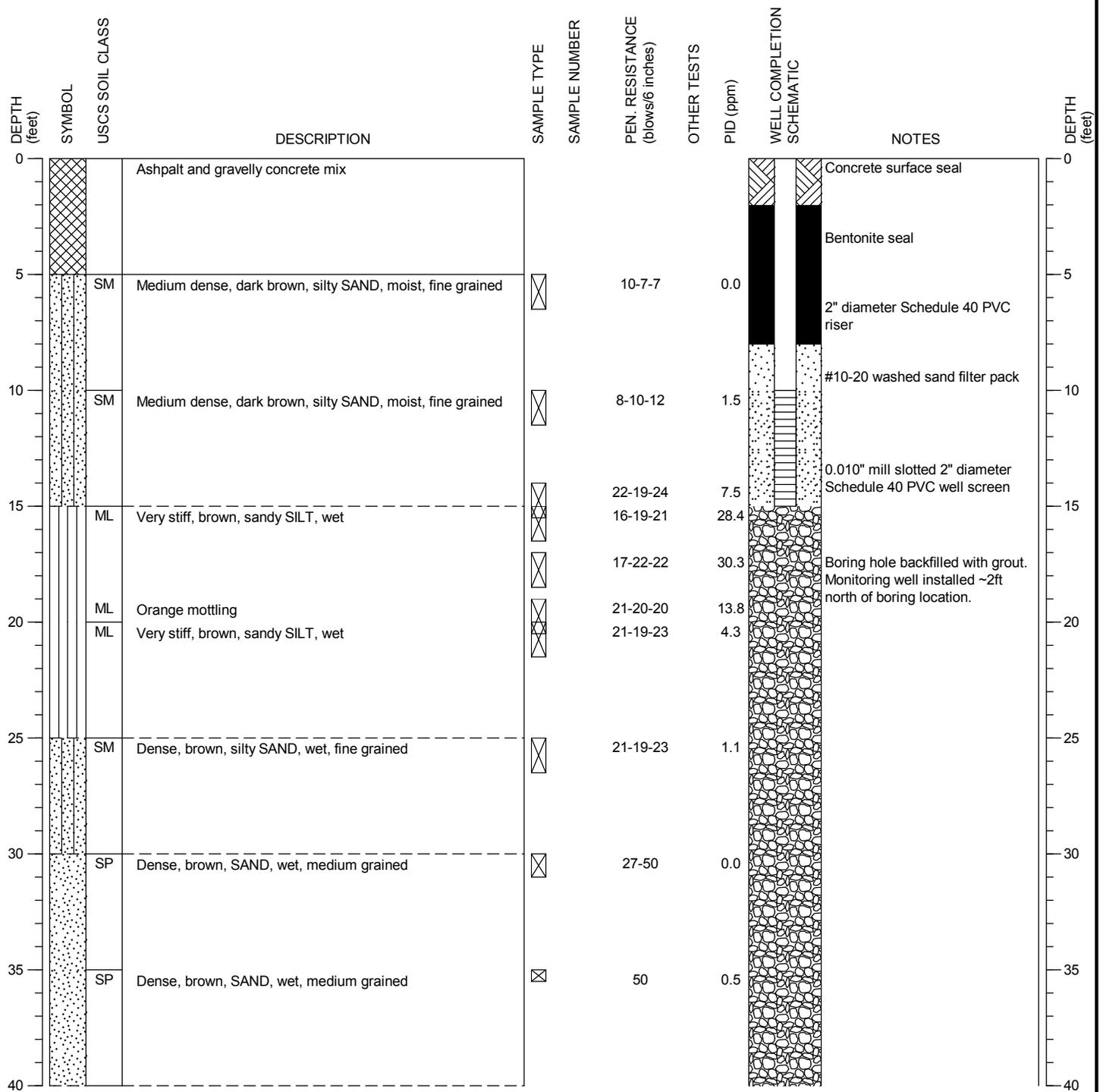
PROJECT NO.: 2007-098-2036 FIGURE:

3

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)
 LOCATION: 18107 Bothell Way NE, Bothell, WA

SURFACE ELEVATION: 45.36 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 11/11/2015
 DATE COMPLETED: 11/12/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

MONITORING WELL:
 MW-21

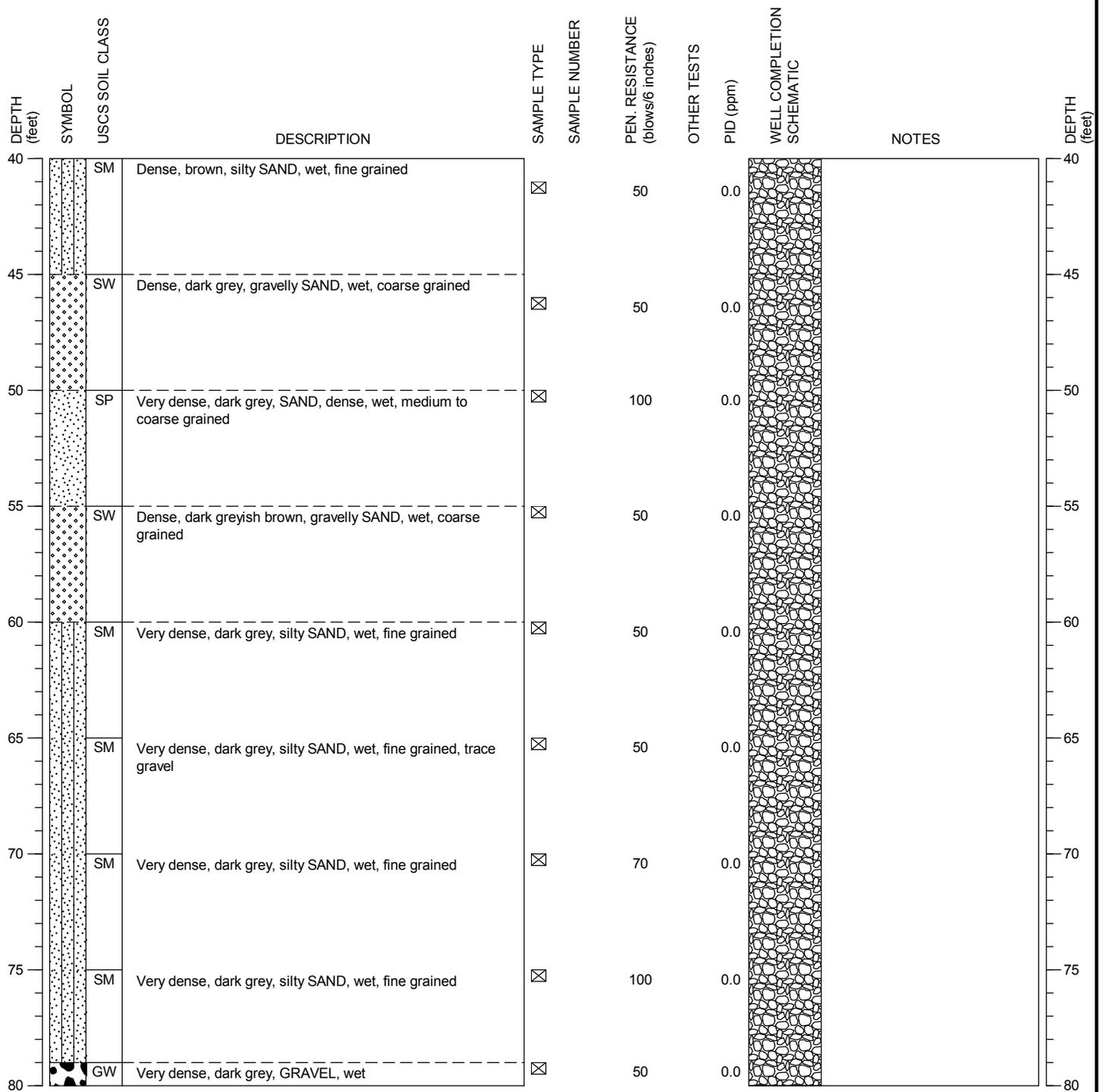
PAGE: 1 of 2

PROJECT NO.: 2007-098-2036 FIGURE:

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)
 LOCATION: 18107 Bothell Way NE, Bothell, WA

SURFACE ELEVATION: 45.36 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 11/11/2015
 DATE COMPLETED: 11/12/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

MONITORING WELL:
 MW-21

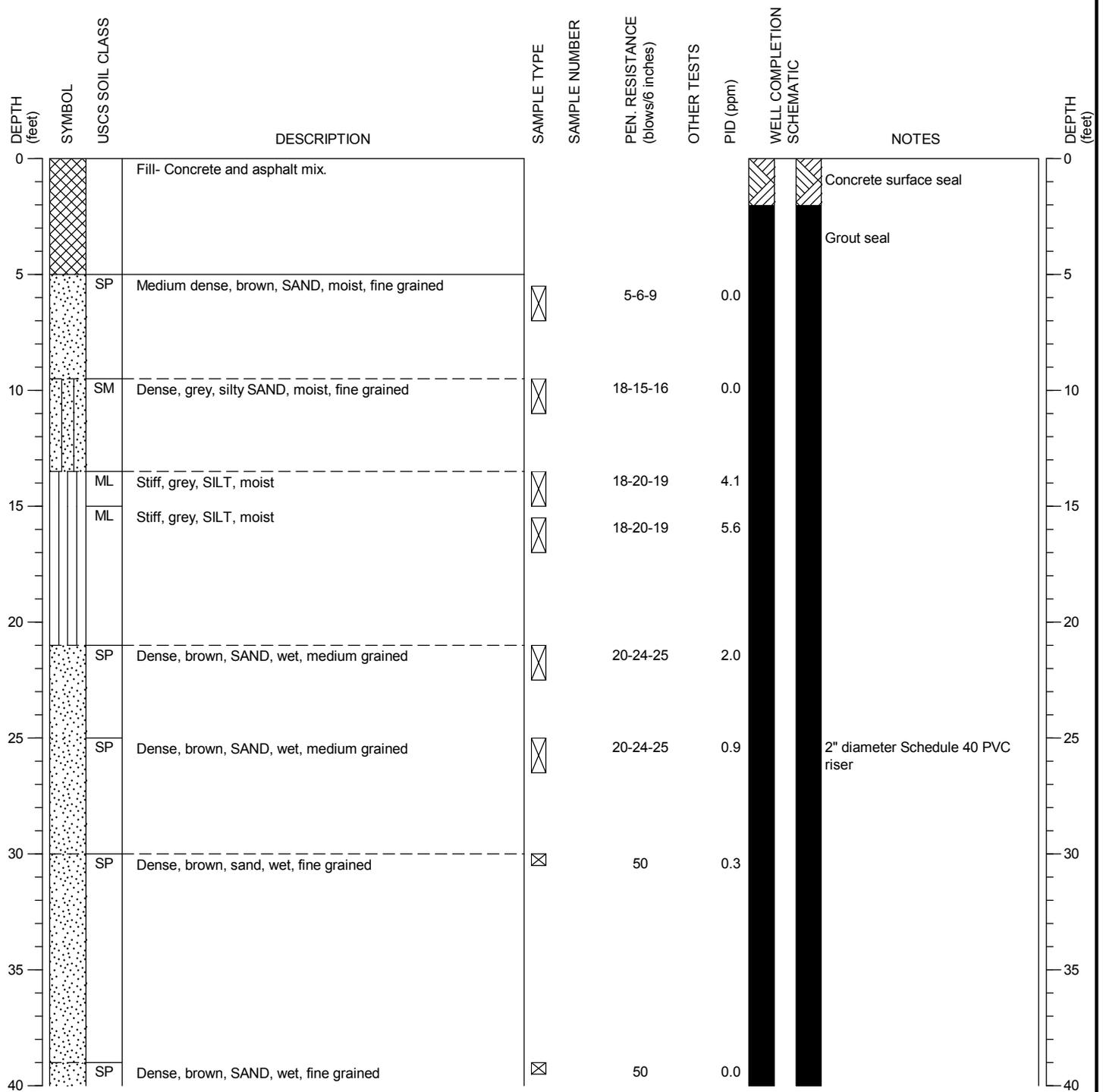
PAGE: 2 of 2

PROJECT NO.: 2007-098-2036 FIGURE:

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)
 LOCATION: 18107 Bothell Way NE, Bothell, WA

SURFACE ELEVATION: 46.23 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 11/12/2015
 DATE COMPLETED: 11/13/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

MONITORING WELL:
 MW-22

PAGE: 1 of 2

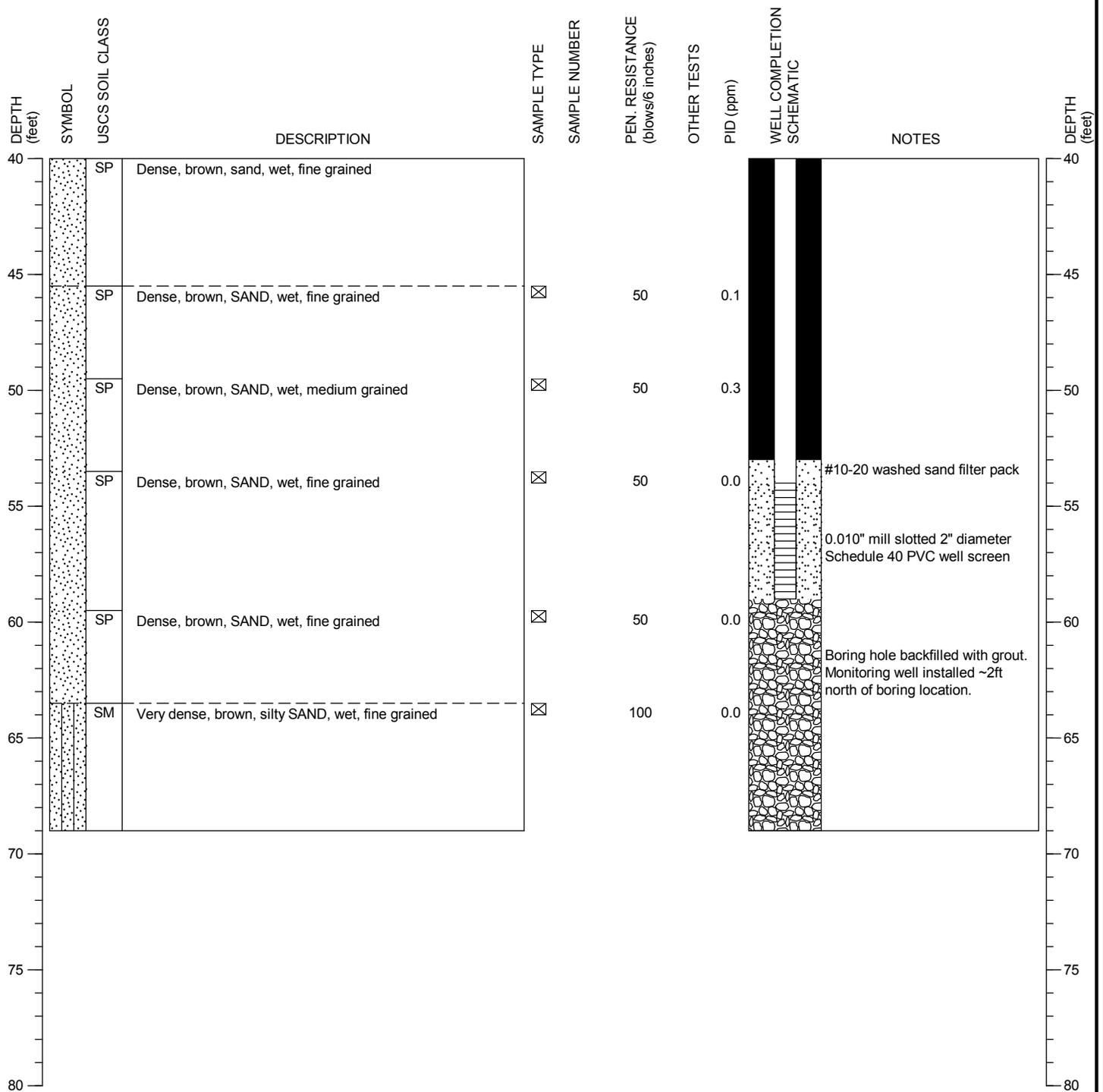
PROJECT NO.: 2007-098-2036 FIGURE:

5

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Wireline sampling (2.5" dia. tube, 300lb hammer, and 30" drop)
 LOCATION: 18107 Bothell Way NE, Bothell, WA

SURFACE ELEVATION: 46.23 ± feet
 CASING ELEVATION ± feet

DATE STARTED: 11/12/2015
 DATE COMPLETED: 11/13/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

MONITORING WELL:
 MW-22

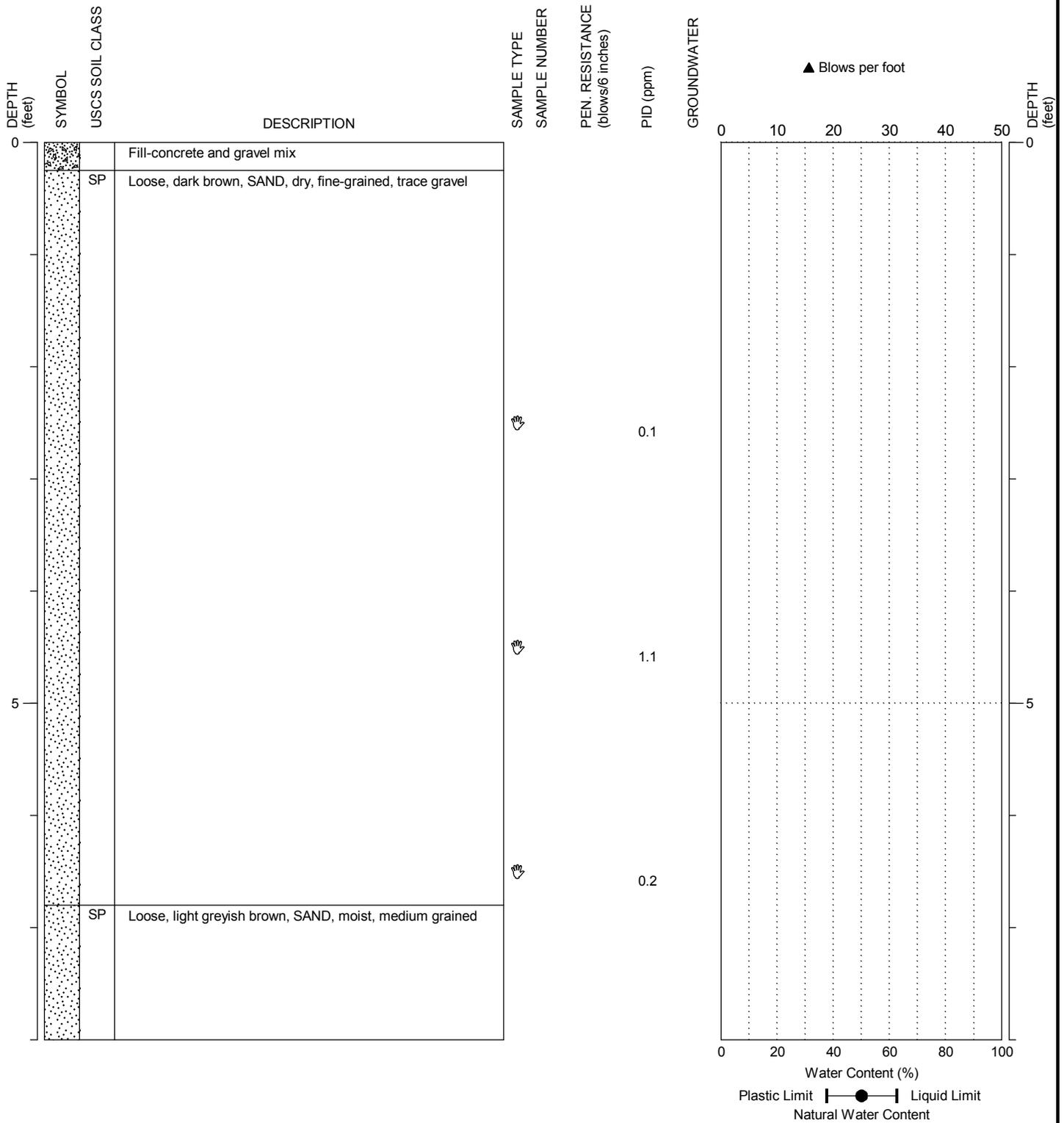
PAGE: 2 of 2

PROJECT NO.: 2007-098-2036 FIGURE:

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Geoprobe Direct Push
 SAMPLING METHOD: Macro Core MC5 (4' length, 2.25" dia. tubes)
 LOCATION: BSC Building

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 10/23/2015
 DATE COMPLETED: 10/23/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

BORING:
 A-1 / IntB-1

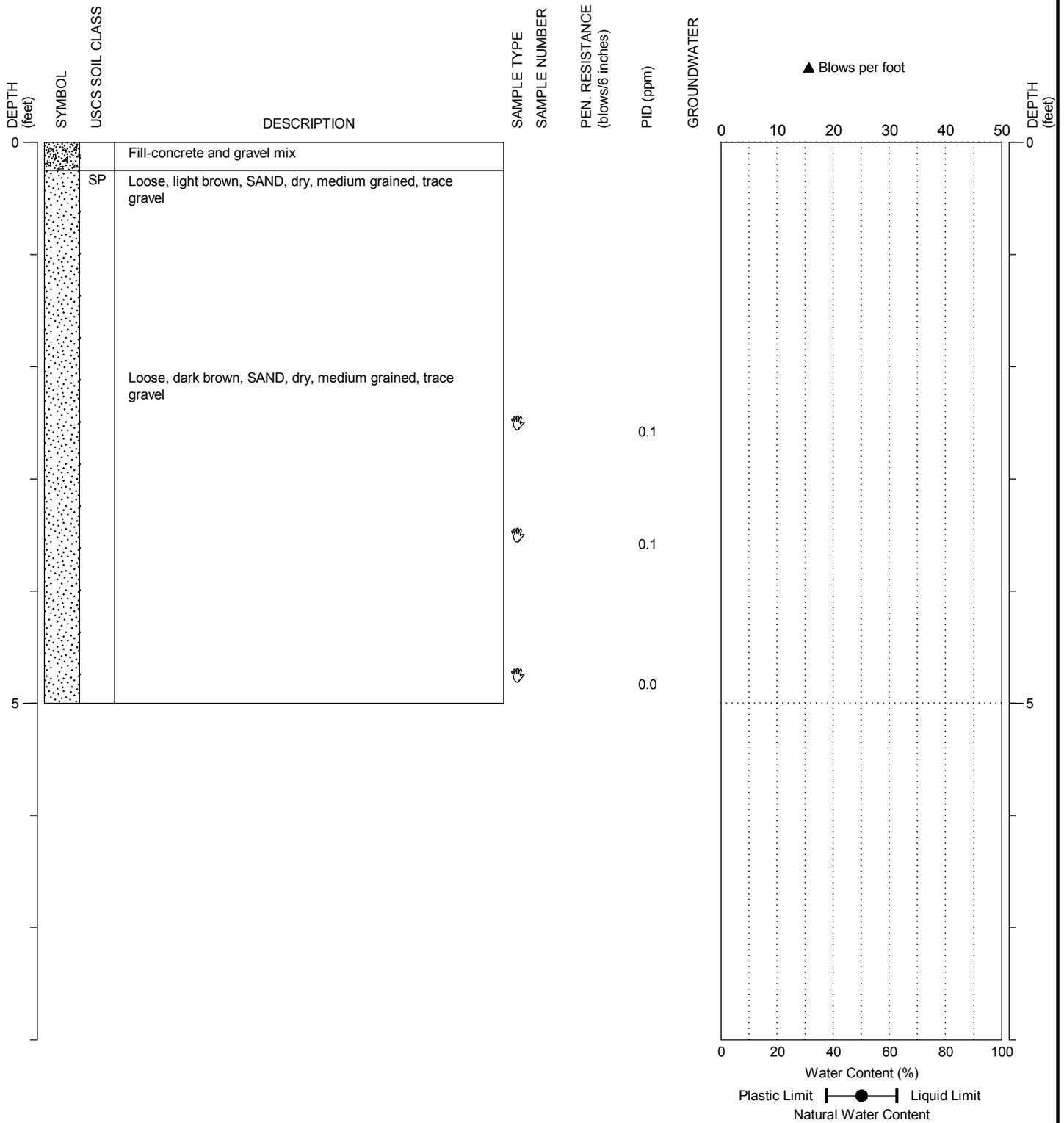
PAGE: 1 of 1

PROJECT NO.: 2007-098-2036 FIGURE:

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Geoprobe Direct Push
 SAMPLING METHOD: Macro Core MC5 (4' length, 2.25" dia. tubes)
 LOCATION: BSC Building

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 10/23/2015
 DATE COMPLETED: 10/23/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

BORING:
 A-2 / IntB-2

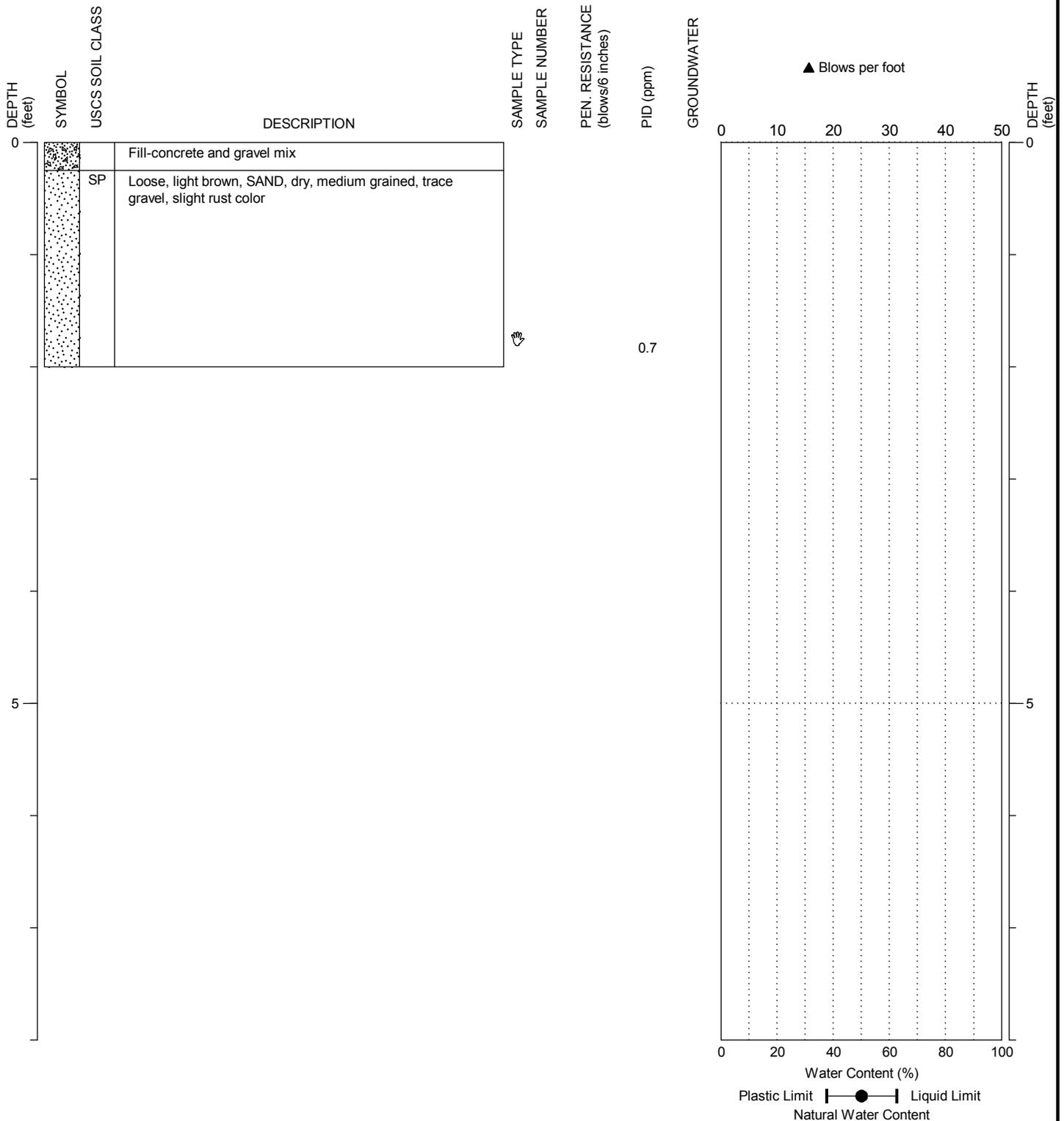
PAGE: 1 of 1

PROJECT NO.: 2007-098-2036 FIGURE:

DRILLING COMPANY: Cascade Drilling, Inc.
 DRILLING METHOD: Geoprobe Direct Push
 SAMPLING METHOD: Macro Core MC5 (4' length, 2.25" dia. tubes)
 LOCATION: BSC Building

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 10/24/2015
 DATE COMPLETED: 10/24/2015
 LOGGED BY: A. York



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



BOTHELL SERVICE CENTER
 18107 Bothell Way NE
 Bothell, Washington

BORING:
 A-3 / IntB-3

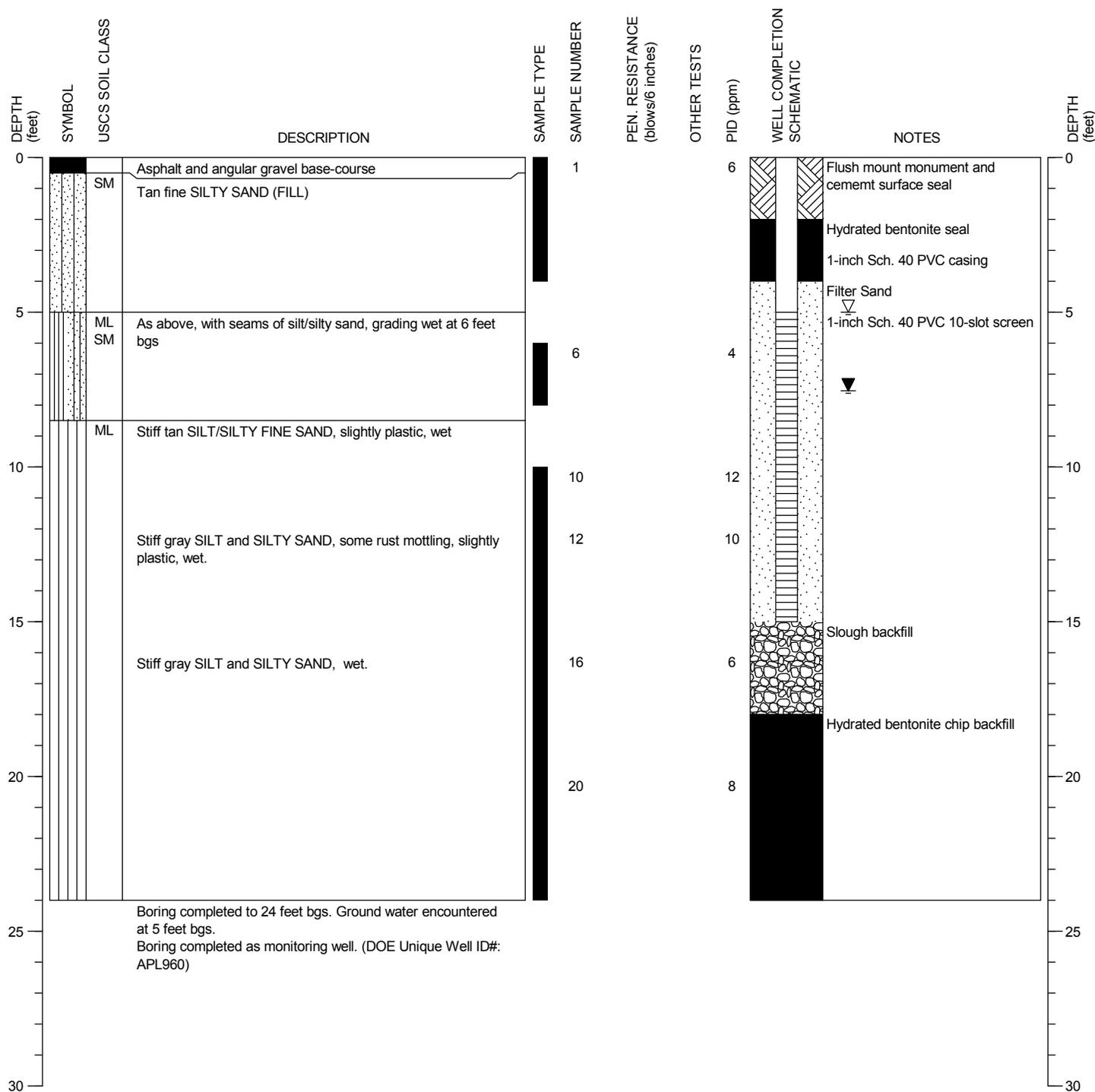
PAGE: 1 of 1

PROJECT NO.: 2007-098-2036 FIGURE:

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: GeoProbe
 SAMPLING METHOD: HDPE-lined Macrocore Sampler
 LOCATION: Northwest property line

SURFACE ELEVATION: 42.70 ± feet
 CASING ELEVATION ± feet

DATE STARTED:
 DATE COMPLETED:
 LOGGED BY: HWA - A. Sugar



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Former Hertz
 Bothell, Washington

MONITORING WELL:
 HZ-MW1

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

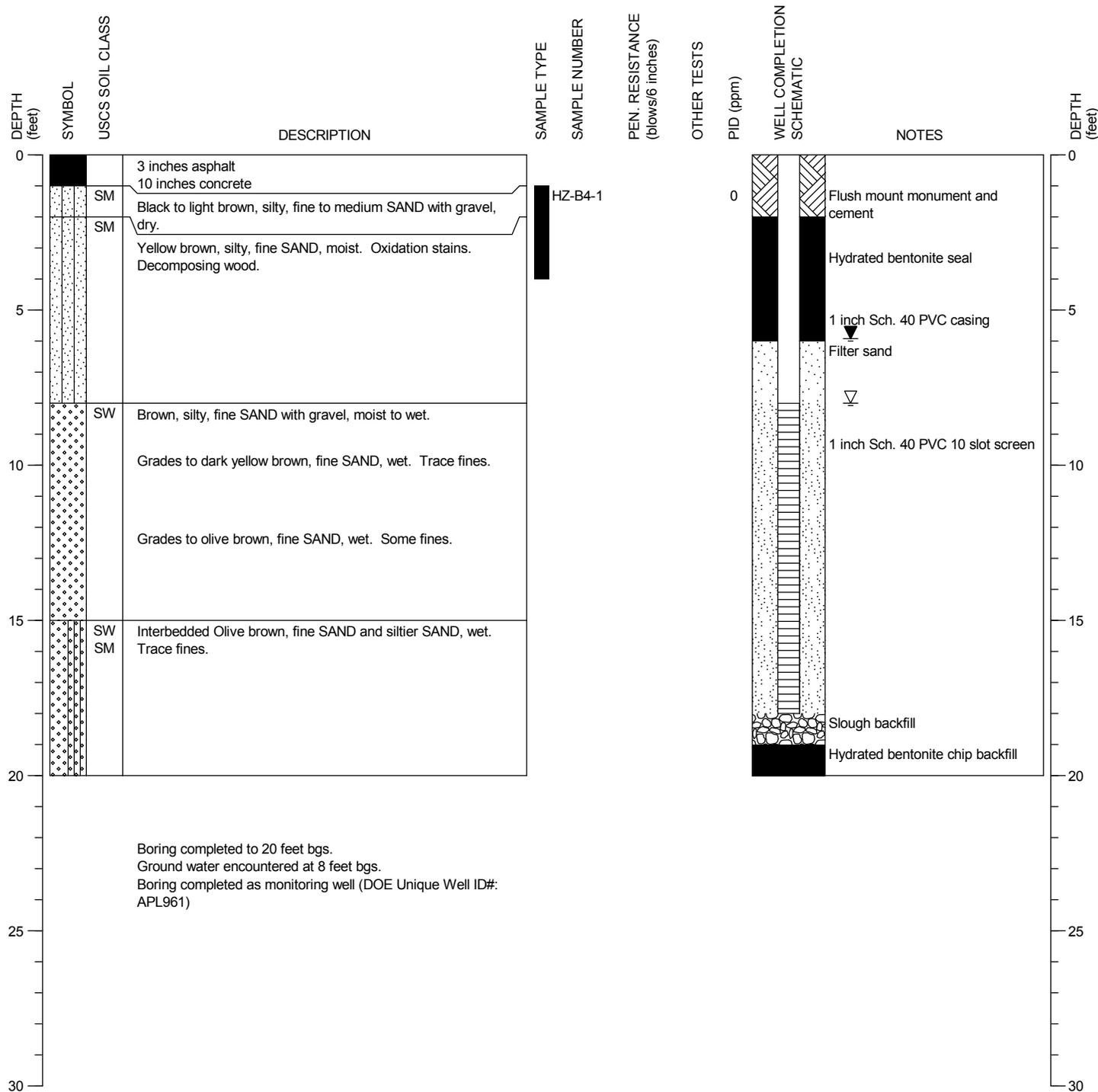
FIGURE:

A-15

DRILLING COMPANY: ESN Northwest
 DRILLING METHOD: GeoProbe
 SAMPLING METHOD: HDPE-lined Macrocore Sampler
 LOCATION: Upgradient Bothell Service Center

SURFACE ELEVATION: 40.50 ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 8/28/2008
 DATE COMPLETED: 8/28/2008
 LOGGED BY: HWA - J. Speck



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Former Hertz
 Bothell, Washington

MONITORING WELL:
 HZ-MW4

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

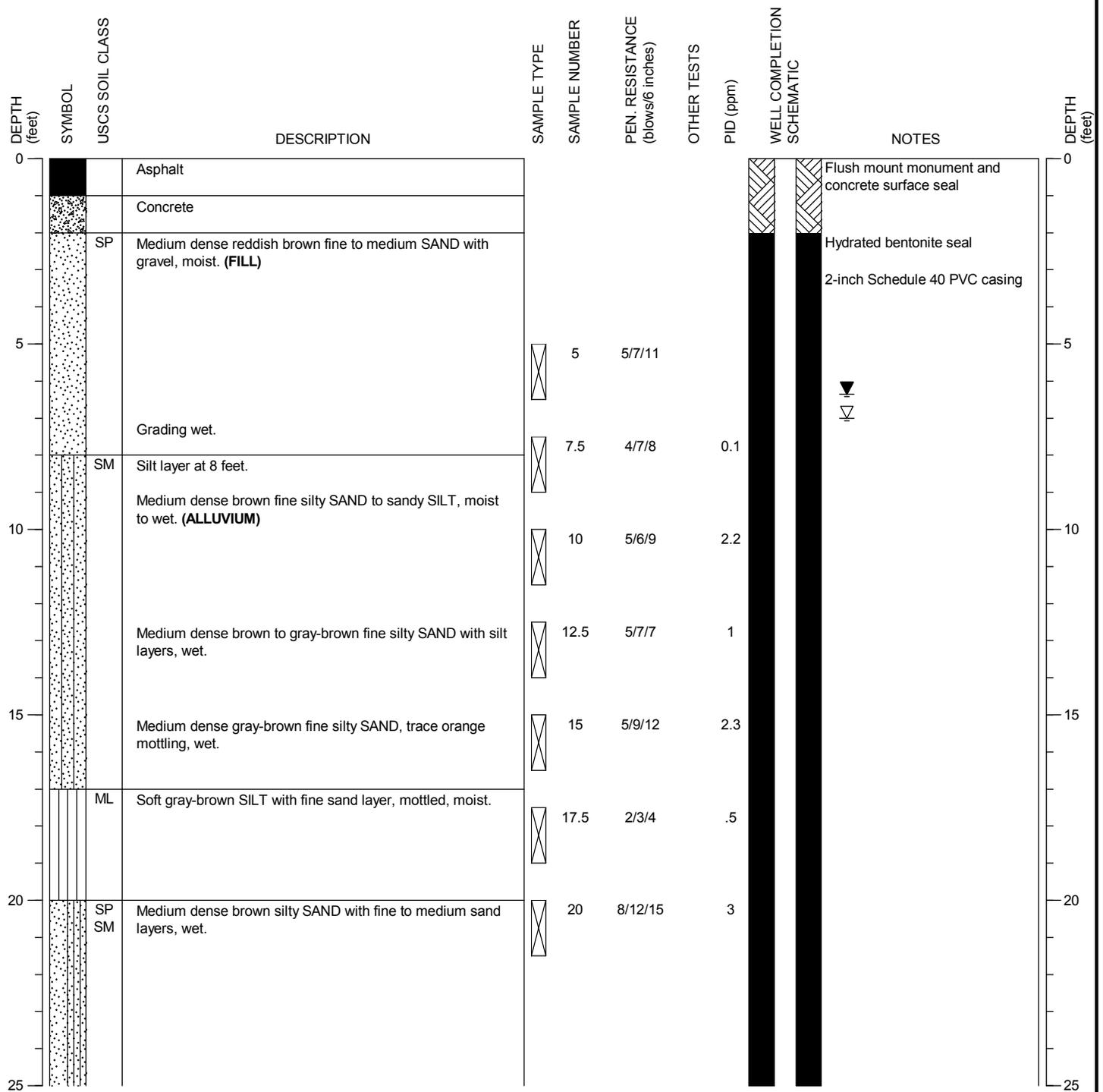
FIGURE:

A-16

DRILLING COMPANY: Holocene Drilling
 DRILLING METHOD: Mobile B-59 HSA
 SAMPLING METHOD: SPTx140# hammer
 LOCATION: Center turn lane, SR522

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 2/22/2013
 DATE COMPLETED: 2/22/2013
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Hertz Parcel R1
 Bothell, WA

MONITORING WELL:
 HZ-MW14D

PAGE: 1 of 2

PROJECT NO.: 2007-098-931

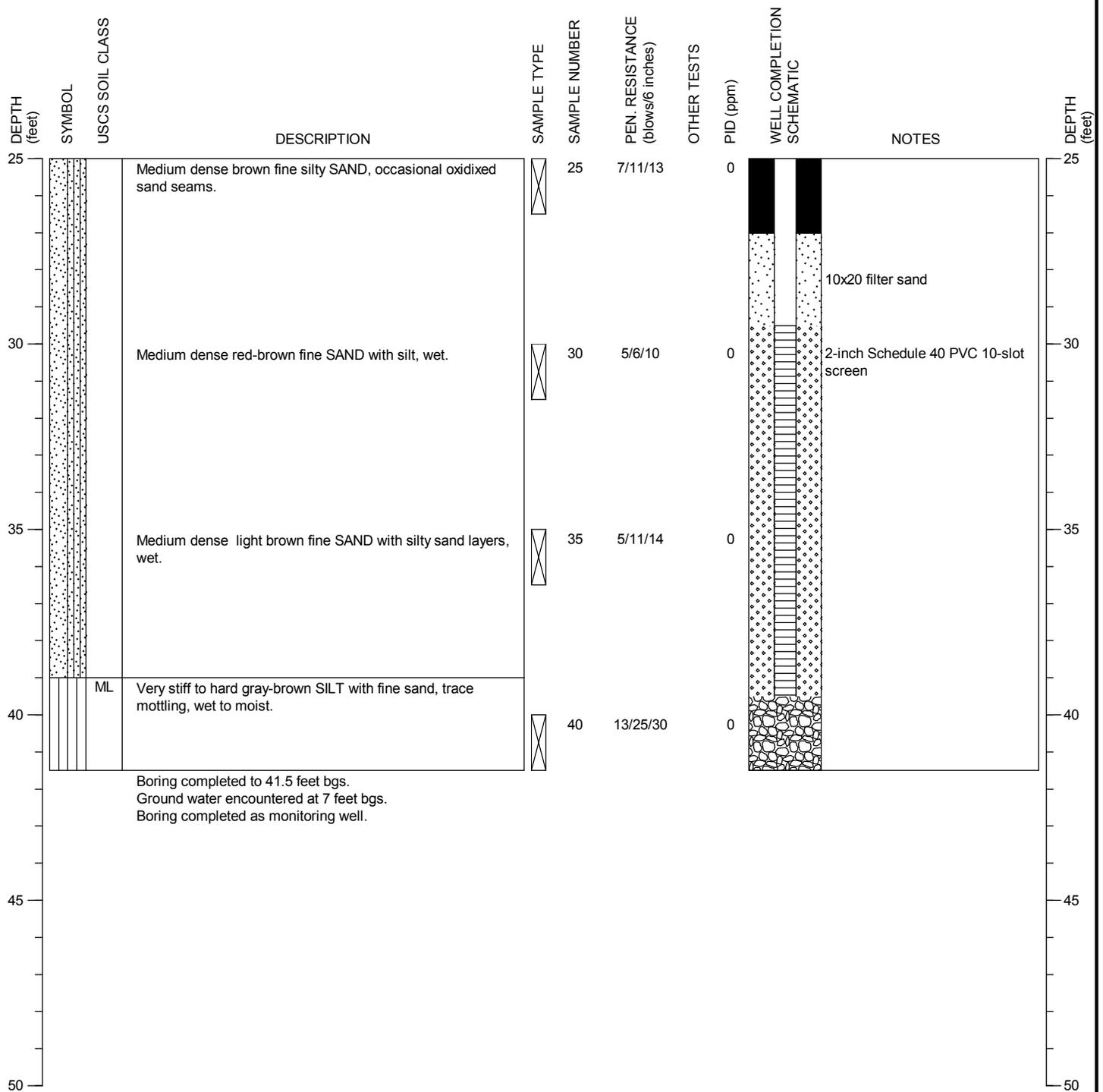
FIGURE:

A-22

DRILLING COMPANY: Holocene Drilling
 DRILLING METHOD: Mobile B-59 HSA
 SAMPLING METHOD: SPTx140# hammer
 LOCATION: Center turn lane, SR522

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 2/22/2013
 DATE COMPLETED: 2/22/2013
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Hertz Parcel RI
 Bothell, WA

MONITORING WELL:
 HZ-MW14D

PAGE: 2 of 2

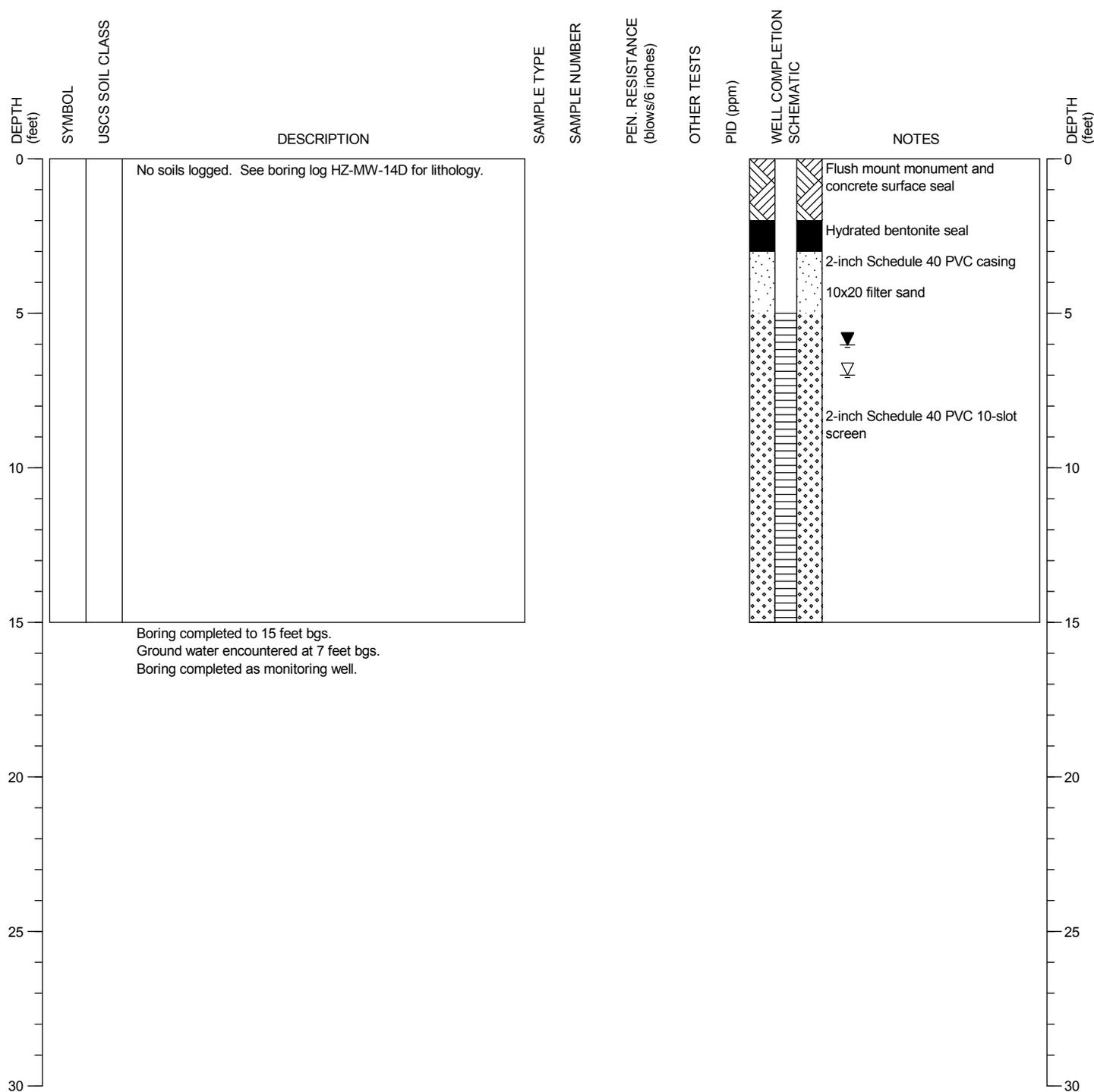
PROJECT NO.: 2007-098-931 FIGURE:

A-22

DRILLING COMPANY: Holocene Drilling
 DRILLING METHOD: Mobile B-59 HSA
 SAMPLING METHOD: SPTx140# hammer
 LOCATION: Center turn lane, SR522

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 2/21/2013
 DATE COMPLETED: 2/21/2013
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Former Hertz
 Bothell, Washington

MONITORING WELL:
 HZ-MW14S

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

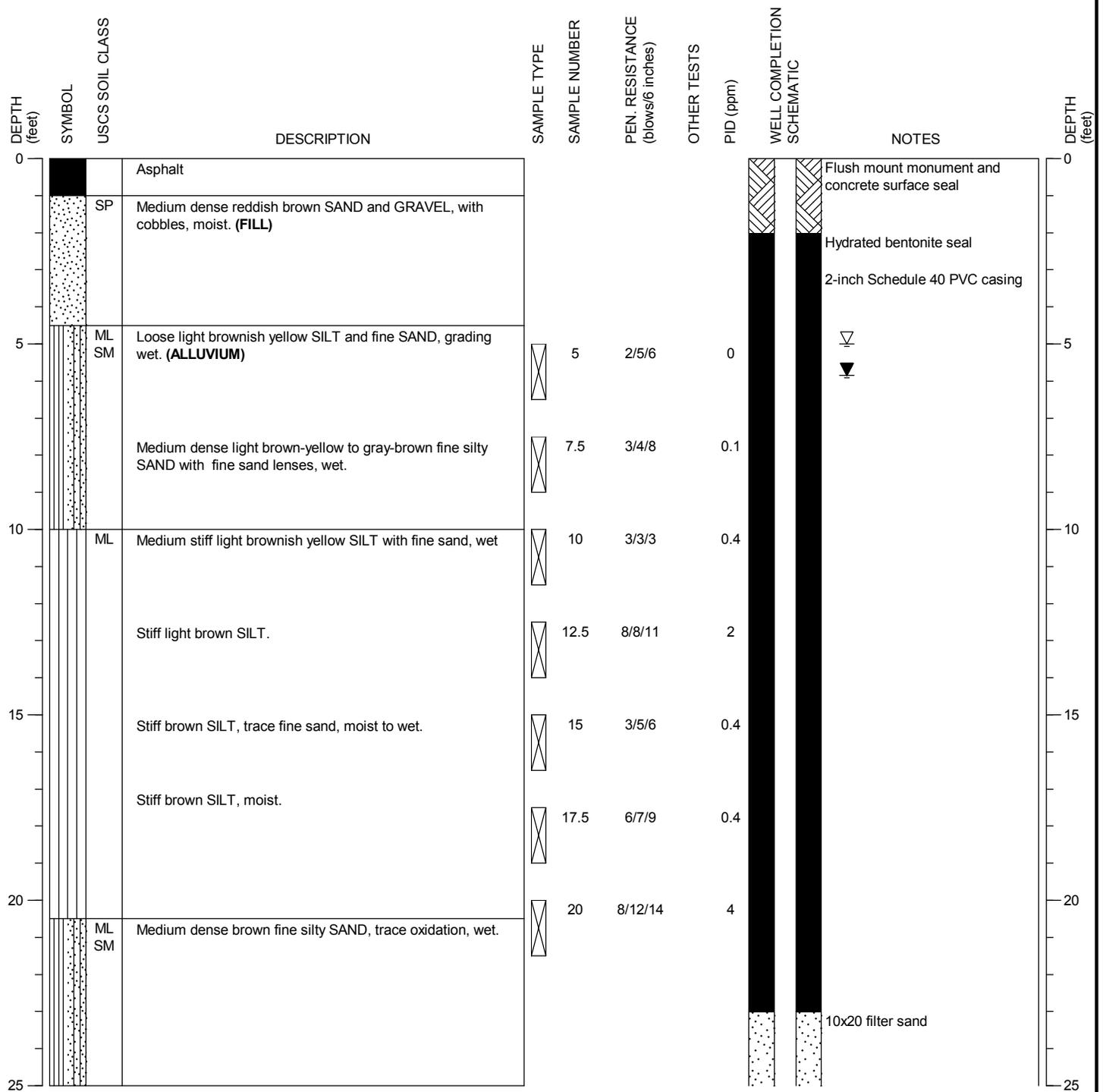
FIGURE:

A-23

DRILLING COMPANY: Holocene Drilling
 DRILLING METHOD: Mobile B-59 HSA
 SAMPLING METHOD: SPTx140# hammer
 LOCATION: Right-hand westbound lane, SR522

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 2/22/2013
 DATE COMPLETED: 2/22/2013
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Hertz Parcel R1
 Bothell, WA

MONITORING WELL:
 HZ-MW15D

PAGE: 1 of 2

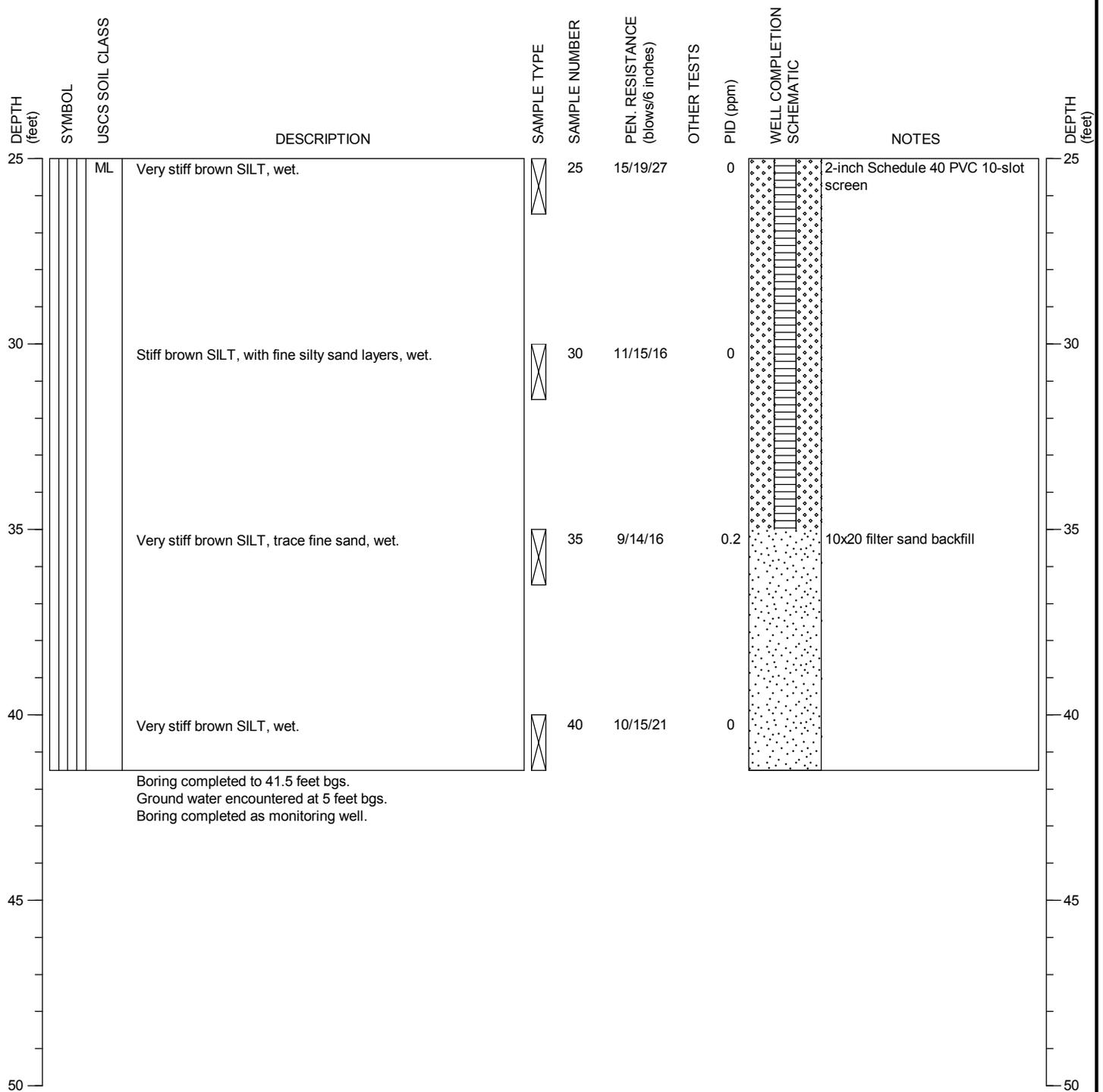
PROJECT NO.: 2007-098-931 FIGURE:

A-24

DRILLING COMPANY: Holocene Drilling
 DRILLING METHOD: Mobile B-59 HSA
 SAMPLING METHOD: SPTx140# hammer
 LOCATION: Right-hand westbound lane, SR522

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 2/22/2013
 DATE COMPLETED: 2/22/2013
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Crossroads
 Hertz Parcel RI
 Bothell, WA

MONITORING WELL:
 HZ-MW15D

PAGE: 2 of 2

PROJECT NO.: 2007-098-931

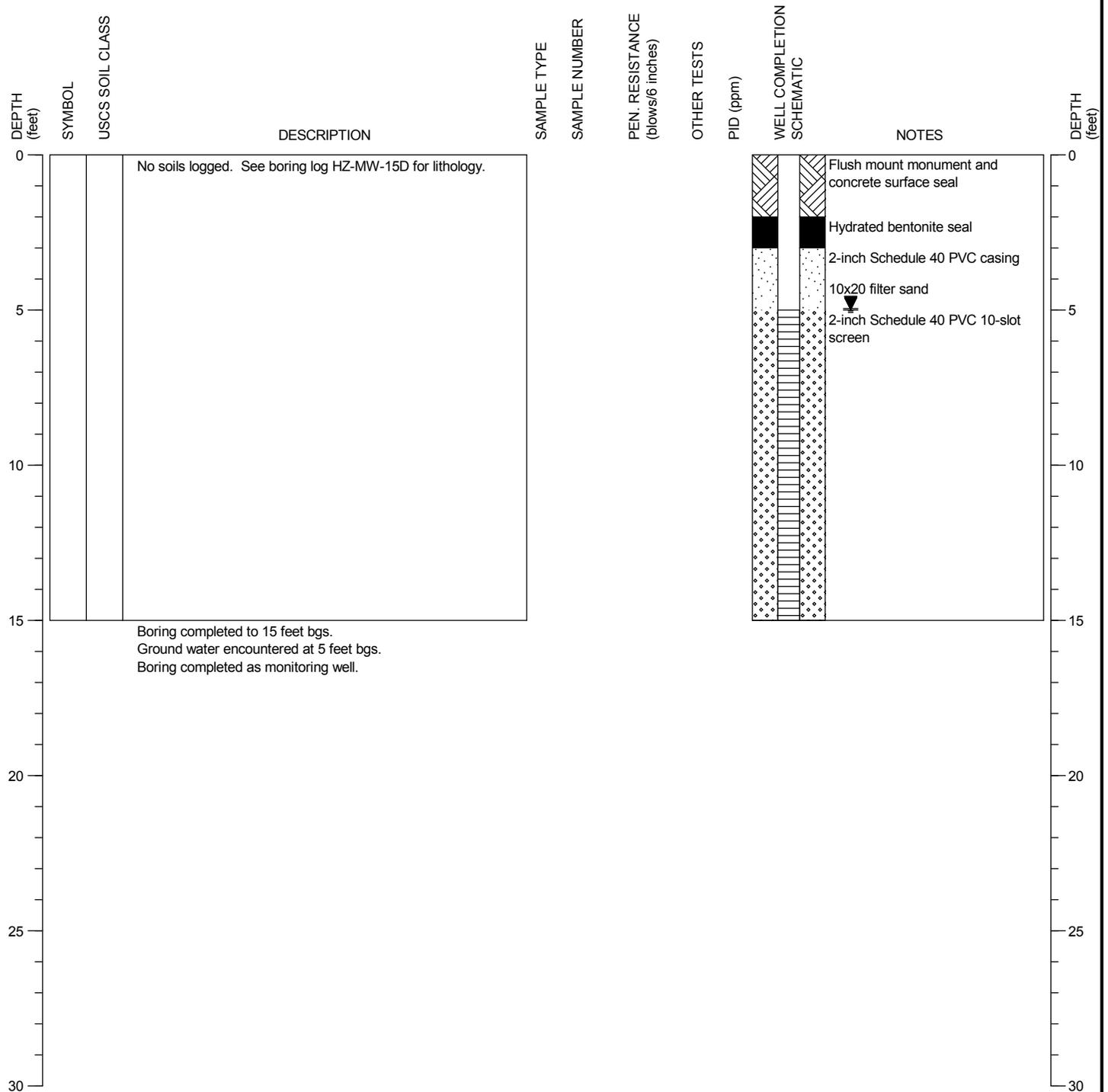
FIGURE:

A-24

DRILLING COMPANY: Holocene Drilling
 DRILLING METHOD: Mobile B-59 HSA
 SAMPLING METHOD: SPTx140# hammer
 LOCATION: Right-hand westbound lane, SR522

SURFACE ELEVATION: ± feet
 CASING ELEVATION: ± feet

DATE STARTED: 2/22/2013
 DATE COMPLETED: 2/22/2013
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.

**MONITORING WELL:
 HZ-MW15S**

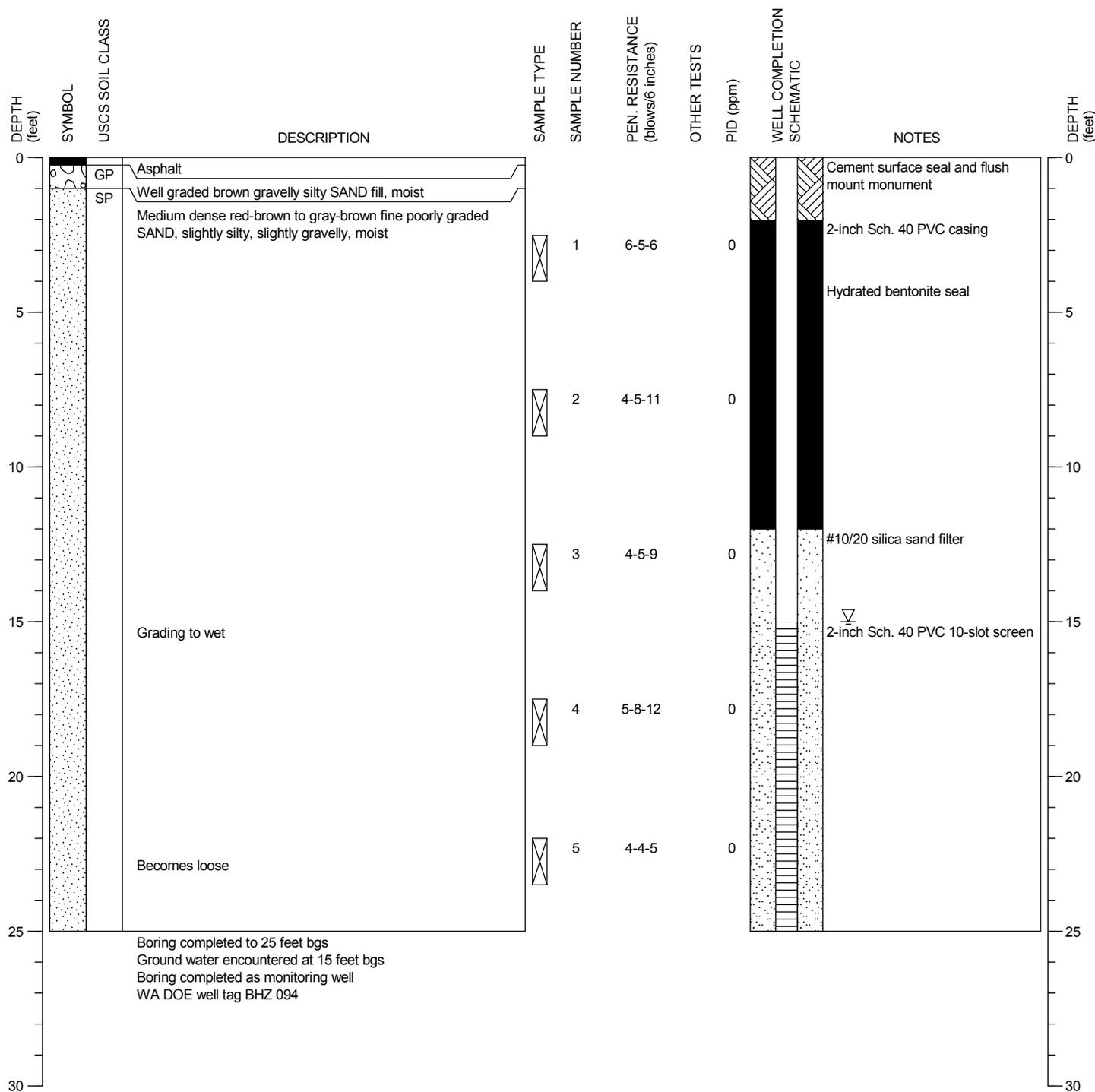


Bothell Former Hertz
 Bothell, Washington

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 1/8/2014
 DATE COMPLETED: 1/8/2014
 LOGGED BY: N.Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Former Hertz
 Bothell, Washington

MONITORING WELL:
 HZMW-16

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

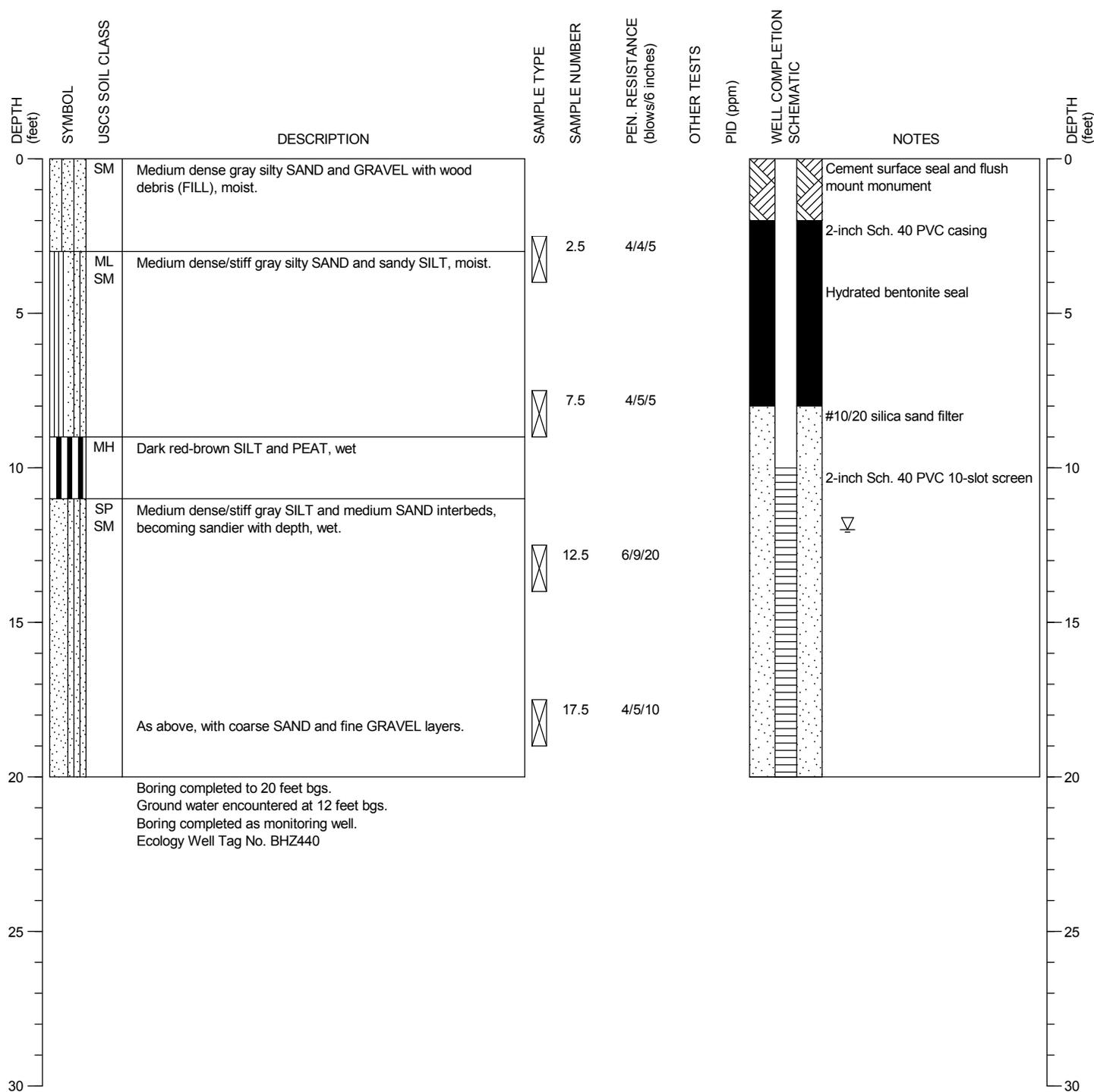
FIGURE:

A-26

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 4/8/2014
 DATE COMPLETED: 4/8/2014
 LOGGED BY: V. Atkins



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Former Hertz
 Bothell, Washington

MONITORING WELL:
 HZMW-17

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

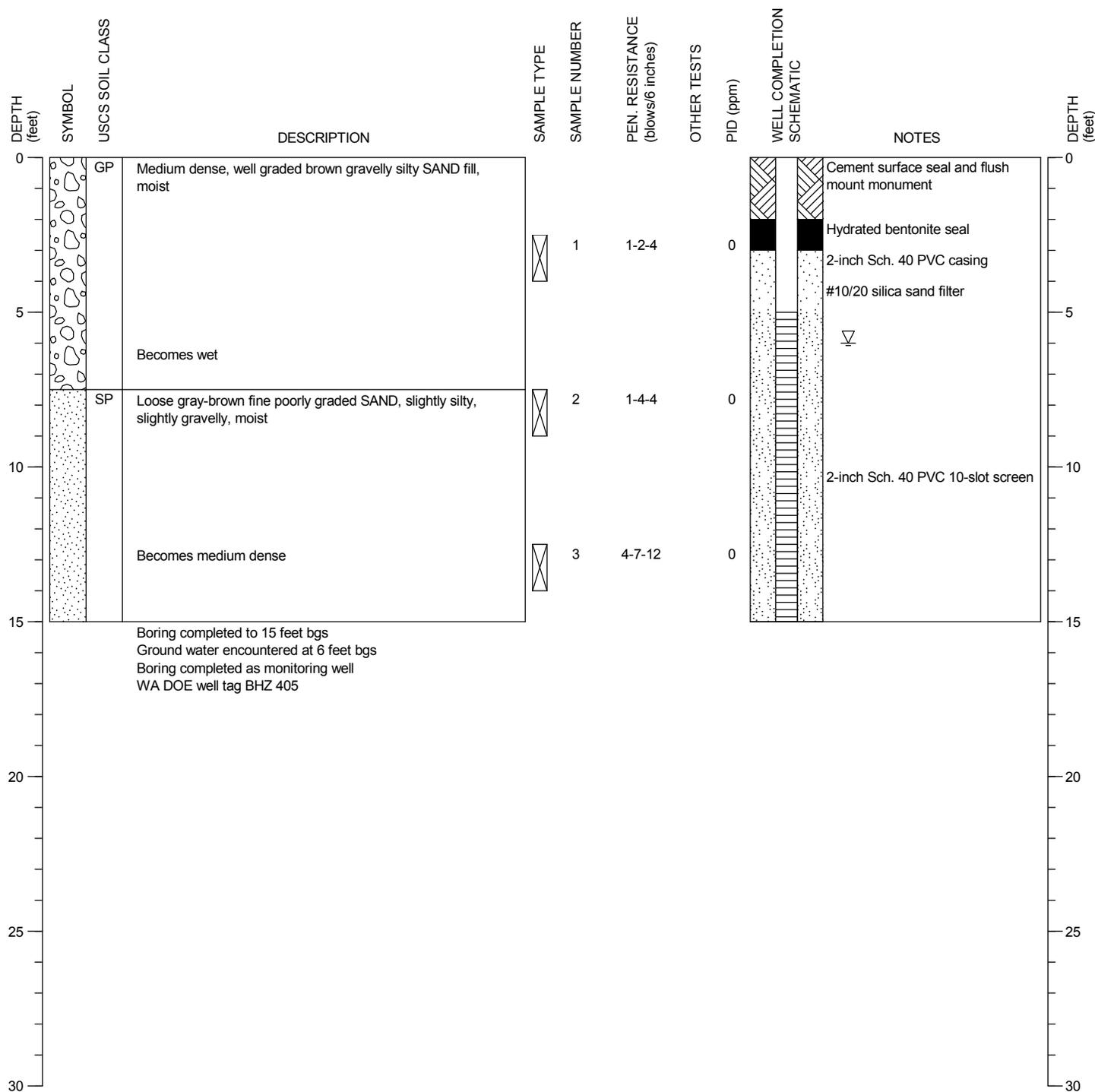
FIGURE:

A-27

DRILLING COMPANY: Environmental Drilling Inc.
 DRILLING METHOD: Hollow Stem Auger
 SAMPLING METHOD: Stainless steel split spoon
 LOCATION:

SURFACE ELEVATION: ± feet
 CASING ELEVATION ± feet

DATE STARTED: 1/13/2014
 DATE COMPLETED: 1/13/2014
 LOGGED BY: N.Nielsen



NOTE: This log of subsurface conditions applies only at the specified location and on the date indicated and therefore may not necessarily be indicative of other times and/or locations.



Bothell Former Hertz
 Bothell, Washington

MONITORING WELL:
 HZMW-19

PAGE: 1 of 1

PROJECT NO.: 2007-098-998

FIGURE:

A-29

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
			100	0.0	Backfilled with bentonite chips.	0-3": Concrete GP 3"-8": Pea gravel SP 8"-25": Med. brown fine sand. SP 25"-36": Med. orange-brown med. sand w/ gravel.
Boring ended at 3 feet bgs (refusal).						

Depth Below Ground Surface (bgs) in feet

KSB-2:
8in-36in

Logged by: Justin Vetter Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/13/2016 Hole Diameter: 1.5 inches Hole Depth: 3 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
--	---	---



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www.kane-environmental.com

Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
KSB-4: 9in-18in			100	0.0	Backfilled with bentonite chips.	0-3": Concrete
						GP 3"-9": Pea gravel
						SP 9"-18": Med. brown fine-med. sand.
Boring ended at 1.5 feet bgs (refusal).						

Logged by: Justin Vetter
 Driller: Cascade Drilling
 Drilling Method: Direct-Push (DP)
 Sampling Method: Acetate Liner
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 7/13/2016
 Hole Diameter: 1.5 inches
 Hole Depth: 1.5 feet
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): N/A
 Depth to Water (Static): N/A
 (water depths are approximate)



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18107 Bothell Way NE
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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
						0-3": Concrete
					GP	3"-7": Pea gravel
					Backfilled with bentonite chips.	
KSB-5: 7in-24in			100	0.0	SP	7"-25": Med. brown fine sand.
KSB-5: 24in-36in				0.0	SP	25"-36": Med.-dark brown fine sand w/ gravel.
Boring ended at 3 feet bgs (refusal).						

Logged by: Justin Vetter
 Driller: Cascade Drilling
 Drilling Method: Direct-Push (DP)
 Sampling Method: Acetate Liner
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 7/13/2016
 Hole Diameter: 1.5 inches
 Hole Depth: 3 feet
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): N/A
 Depth to Water (Static): N/A
 (water depths are approximate)



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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
						0-3": Concrete 3"-4": Pea gravel
KSB-6:	4in-24in			0.0	Backfilled with bentonite chips.	SP 4"-30": Med. brown fine-med. sand w/ trace gravel.
KSB-6:	34in-36in		75	3.9		SP 30"-36": Very dark brown fine sand w/ gravel.
Boring ended at 4 feet bgs (refusal).						

Logged by: Justin Vetter
 Driller: Cascade Drilling
 Drilling Method: Direct-Push (DP)
 Sampling Method: Acetate Liner
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 7/13/2016
 Hole Diameter: 1.5 inches
 Hole Depth: 4 feet
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): N/A
 Depth to Water (Static): N/A
 (water depths are approximate)



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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
						0-3": Concrete
				0.0	SP	3"-10": Very dark brown fine sand w/ trace gravel.
				0.0	SP	10"-30": Med. brown fine sand.
KSB-7: 16in-32in			100		Backfilled with bentonite chips.	
				0.0	SP	30"-40": Dark brown fine sand.
KSB-7: 40in-48in				0.1	SP	40"-48": Very dark brown fine sand w/ gravel.
						Boring ended at 4 feet bgs (refusal).

Logged by: Justin Vetter Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/13/2016 Hole Diameter: 1.5 inches Hole Depth: 4 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
--	---	---



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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
						0-3": Concrete
				0.0	GP	3"-29": Pea gravel
			75		Backfilled with bentonite chips.	
				0.0	SP	29"-36": Lt. brown fine sand.
						Boring ended at 4 feet bgs (refusal).

Depth Below Ground Surface (bgs) in feet

KSB-9:
29in-36in

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/14/2016 Hole Diameter: 1.5 inches Hole Depth: 4 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
--	---	---



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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
KSB-10: 0in-12in			33	0.0	Backfilled with bentonite chips.	0-3": Concrete
						SP 3"-12": Lt. brown fine sand w/ trace gravel.
KSB-10: 36in-46in			42	0.0	Backfilled with bentonite chips.	SP 36"-46": Med. brown fine sand w/ gravel.
						Boring ended at 5 feet bgs (refusal).

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/14/2016 Hole Diameter: 1.5 inches Hole Depth: 5 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
--	---	---



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Bothell, Washington

Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
						0-3": Concrete
				0.0	SP	3"-6": Gray med.-coarse sand w/ gravel.
				0.0	SP	6"-12": Med. brown-orange fine sand w/ trace gravel, sl. moist.
						1
KSB-11: 12in-24in						
			75	0.0	SP	12"-36": Med. brown fine sand, sl. moist.
					Backfilled with bentonite chips.	
						2
						3
						4
KSB-11: 52in-60in				0.0	SP	48"-60": Med. brown fine sand sl. moist.
						5
KSB-11: 64in-72in			100			
				0.0	SP	60"-84": Med brown med. sand. Orange mottling @ 60".
						6
						7

Boring ended at 7 feet bgs (refusal).

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/14/2016 Hole Diameter: 1.5 inches Hole Depth: 7 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
--	---	---



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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
KSB-13: 3in-12in			29	0.0	SP Backfilled with bentonite chips.	0-3": Pea gravel 3"-12": Med.-dark brown fine sand w/ trace gravel.
						Boring ended at 3.5 feet bgs (refusal).

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/14/2016 Hole Diameter: 1.5 inches Hole Depth: 3.5 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
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Bothell, Washington

Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
						GP 0-6": Pea gravel
				0.0	Backfilled with bentonite chips.	SP 3"-26": Lt. brown fine sand w/ trace gravel, sl. moist.
KSB-15: 18in-26in			75			SP 26"-36": Lt. gray-brown fine sand, sl. moist.
	KSB-15: 26in-36in			0.0		
						Boring ended at 4 feet bgs (refusal).

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/14/2016 Hole Diameter: 1.5 inches Hole Depth: 4 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
				0.0		0-12": Med. brown fine sand. Concrete from 10"-12".
			50	0.0	Backfilled with bentonite chips.	12"-24": Lt. brown fine sand w/ trace gravel.
						Boring ended at 4 feet bgs (refusal).

Logged by: Alayna Nieman
 Driller: Cascade Drilling
 Drilling Method: Direct-Push (DP)
 Sampling Method: Acetate Liner
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 7/14/2016
 Hole Diameter: 1.5 inches
 Hole Depth: 4 feet
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): N/A
 Depth to Water (Static): N/A
 (water depths are approximate)



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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
				0.0		SP 0-6": Gray and dark brown fine sand w/ trace gravel.
				0.0		SP 6"-12": Lt. orange-brown fine sand w/ trace gravel.
				0.0		SP 12"-18": Lt. orange-brown fine sand w/ trace gravel.
KSB-17: 12in-24in			75	0.0	Backfilled with bentonite chips.	SP 18"-32": Lt. brown fine sand, dry.
KSB-17: 24in-36in			0.0	SP 32"-36": Lt. brown fine sand, dry.		
				0.0		SP 48"-54": Lt. brown fine and coarse sand w/ trace gravel, dry.
KSB-17: 48in-60in			50	0.0		SP 54"-60": Dark brown fine and coarse sand, dry.
						Boring ended at 6 feet bgs (refusal).

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/15/2016 Hole Diameter: 1.5 inches Hole Depth: 6 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
			100	0.0	Backfilled with bentonite chips.	0-6": Concrete and gravel SP 6"-12": Dark brown fine sand w/ gravel.
				0.0		SP 12"-30": Med. brown fine sand w/ trace gravel.
						Boring ended at 2.5 feet bgs (refusal).

Depth Below Ground Surface (bgs) in feet

KSB-18:
12in-24in

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/15/2016 Hole Diameter: 1.5 inches Hole Depth: 2.5 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
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Remedial Investigation / Feasibility Study
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Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
				0.0		0-3": Asphalt SP 3"-12": Med. brown fine sand w/ gravel.
KSB-19: 18in-30in			63	0.0		SP 3"-12": Med. gray med. sand w/ gravel.
KSB-19: 48in-60in				0.0	Backfilled with bentonite chips.	SM 48"-60": Med. brown fine sand and silt, moist.
			50	0.0		CL 60"-72": Med. gray clay w/ silt, moist.
Boring ended at 8 feet bgs (refusal).						

Logged by: Alayna Nieman Driller: Cascade Drilling Drilling Method: Direct-Push (DP) Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 7/15/2016 Hole Diameter: 1.5 inches Hole Depth: 8 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): N/A Depth to Water (Static): N/A (water depths are approximate)
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Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Well Construction	Soil Log
						0-1": Asphalt
				0.0	SP	1"-6": Med. brown-gray med. and coarse sand w/ gravel.
				0.0	SP	6"-16": Med. brown fine sand w/ gravel.
				0.0	SP	16"-18": Med. brown med. sand w/ gravel.
			38		Backfilled with bentonite chips.	
				0.0	SP	48"-51": Med. brown med. sand w/ gravel.
			50			
						Boring ended at 4.5 feet bgs (refusal).

Logged by: Alayna Nieman
 Driller: Cascade Drilling
 Drilling Method: Direct-Push (DP)
 Sampling Method: Acetate Liner
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 7/15/2016
 Hole Diameter: 1.5 inches
 Hole Depth: 4.5 feet
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): N/A
 Depth to Water (Static): N/A
 (water depths are approximate)

	<p>Remedial Investigation / Feasibility Study 18107 Bothell Way NE Bothell, Washington</p>	<p>Soil Boring Log</p>
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Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	0								
0-2.5	KSB-21: 2.5			50	0.0			SM	0'-2.5': Med. brown very fine-med. sand w/ gravel, med. dense, slightly moist-dry, gravelly at top.
5								ML	5'-7.5': Med. grey w/ light brown mottling silt w/ very fine sand, med. dense, slightly moist.
7.5	KSB-21: 7.5							ML	7.5'-8': Med. grey silt w/ trace clay, med. dense-dense, slightly moist.
8-8.5				100	19.9			ML	8'-8.5': Med. grey silt w/ light brown mottling & very fine sand, med. dense-dense, slightly moist.
8.5-10								SM	8.5'-10': Olive grey fine-med. sand, med. dense, saturated.
10	Boring terminated at 10 feet bgs.								
15									
20									
25									
30									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 10 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 8.66 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand  Well Screen
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	5	KSB-22: 2.5			50	0.0			SP
								SP	.5'-1.3': Brown coarse sand w/ gravels, moist.
								SP	1.3'-2.5': Fine-med. brown sand, med. dense, moist.
								SP	5'-7': Fine-med. brown sand, med. dense, moist.
	KSB-22: 7			80	0.0			SP	7'-9': Med.-coarse sand, med. dense, very wet-saturated. Note: Drillers reported a foot of slough in the 5'-10' sample, thus drilling ended at 9 feet.
10									Boring terminated at 9 feet bgs.
15									
20									
25									
30									

Logged by: Brianna Hunt Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 9 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 8 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand  Well Screen
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	0-5	KSB-23: 2			40	0.0		SP	0'-.5': Med. brown very fine sand-gravel, med. dense, slightly moist.
5-6							ML	.5'-1': Olive grey silt-very fine sand w/ orange brown mottling, med. dense, slightly moist. Lense of gravel at 1'.	
6-7							ML	1'-2': Olive grey silt-fine sand, med. dense, slightly moist.	
7-8							SP	5'-6': Light grey med. sand-gravel, loose, dry. Possibly slough.	
8-9							ML	6'-7': Olive grey silt w/ trace clay, med. dense, saturated.	
9-10	KSB-23: 7.5			100			ML	7': Same as above, moist, dark orange mottling.	
10-10.32					0.2		ML	7'-10': Med. grey very fine-fine sand, med dense, very moist-saturated.	
10.32-30								Boring terminated at 10 feet bgs.	

Logged by: Jeffrey Jensen
 Driller: ESN
 Drilling Method: Direct-Push
 Sampling Method: Acetate Liner
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 10/19/16
 Hole Diameter: 2 inch
 Hole Depth: 10 feet
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): 9.32 feet
 Depth to Water (Static): N/A
 Well Tag: N/A

 Concrete
 Bentonite
 Sand

 Well Screen



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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	0								
0.4									.4'-2': Brown fine sand w/ trace gravel, moist.
2	KSB-24: 2.5			50	0.0				2'-3': Brown med. sand w/ gravel, moist.
5									5'-5.3': Brown med. sand w/ gravel.
5.3									5.3'-5.5': Grey fine sand w/ gravel, loose, dry.
5.5									5.5'-5.8': Brown coarse sand.
5.8	KSB-24: 7			80	0.0				5.8'-6': Grey coarse sand w/ gravel.
6									6'-8.5': Brown coarse sand w/ trace gravel, loose-med. dense, moist-saturated.
8.5									8.5'-9': Brown silt, dense, saturated, trace orange mottling.
10	Boring terminated at 10 feet bgs.								
15	Note: Drillers report water ~10 feet bgs, observed at 8 feet bgs in sample.								
20									
25									
30									

Logged by: Brianna Hunt Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 10 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): ~8 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand  Well Screen
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
									0'-.5': Grey fine sand w/ gravel, grading coarse, pink insulation material (Fill). Dry.
	KSB-25: 2			40	0.0				.5'-2': Brown med. sand w/ trace gravel. Gravel increasing 1.5'-2'.
5									5'-5.2': Brown fine-med. sand, moist.
									5.2'-5.5': Grey fine sand w/ gravel.
	KSB-25: 7.25			50	0.0				5.5'-7.5': Brown coarse sand w/ gravel.
									7.5'-10': No recovery.
10									Note: Drillers measured water at ~10 feet.
									Boring terminated at 10 feet bgs.
15									
20									
25									
30									

Logged by: Brianna Hunt Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 10 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): ~10 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand  Well Screen
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
									0'-.25': Asphalt.
								SP	.25'-1': Brown fine-med. sand, med. dense, slightly moist.
	KSB-26: 2			40	0.0			SP	1'-2': Med. brown fine-coarse sand w/ gravel, med. dense, slightly moist.
5								SP	5'-5.5': Dark grey med.-coarse sand w/ gravel, med. dense-loose, slightly moist.
	KSB-26: 6			80	0.0			SM	5.5'-6': Med. grey fine sand w/ silt, med. dense, slightly moist-moist.
	KSB-26: 7							ML	6'-7.5': Olive brown silt w/ very fine sand, med. dense-dense, moist-saturated.
								ML	7.5'-9': Med. grey silt, dense, very moist-saturated.
10								SM	10'-10.5': Med. grey very fine sand w/ silt, med. dense, very moist-saturated.
								SM	10.5'-11': Med. grey-light brown very fine sand w/ silt, med dense, saturated.
								ML	11'-11.5': Olive grey silt-coarse sand, med. dense, saturated.
								ML	11.5'-12.5': Med. grey silt, dense, saturated.
								ML	12.5'-13': Olive grey silt w/ very fine sand, dense, saturated.
15	KSB-26: 15			100	38.4			SM	13'-15': Olive brown fine-med. sand, med. dense, saturated, defined dark orange mottling @ 13'.
	Boring terminated at 15 feet bgs.								

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 15 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 11.55 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand  Well Screen
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	0-5	KSB-27: 2			40	0.0		Well Construction: Bentonite	SP
5-6.5							Well Construction: Bentonite	SP	.5'-1': Orange gravelly med.-coarse sand, med. dense-loose, slightly moist.
6.5-7.5							Well Construction: Bentonite	SM	1'-2': Olive grey fine-med. sand, med. dense, slightly moist.
7.5-8							Well Construction: Bentonite	SM	5'-6.5': Grey fine sand w/ pea gravel, loose, dry to moist @ 6.5'.
8-9.5	KSB-27: 7						Well Construction: Bentonite	SM	6.5'-7.5': Olive grey very fine sand-silt w/ light brown mottling, med. dense-dense, moist-very moist.
9.5-10	KSB-27: 9		100	15.9			Well Construction: Bentonite	SP	7.5'-8': Same as above, w/ trace clay.
10-30									8'-9.5': Olive grey very fine sand-silt w/ light brown mottling, med. dense-dense, moist-very moist.
									9.5'-10': Olive grey fine-med. sand, med. dense, saturated. Dark orange mottling @ 9.5'.

Boring terminated at 10 feet bgs.

Note: Boring caved in so drillers could not report water level. Water level thus determined by soil description.

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 10 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 9.5 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand  Well Screen
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
5	KSB-28: 5						Backfilled with bentonite chips.	SP	5'-6': Med. brown fine-med. sand w/ gravel, loose, moist.
	KSB-28: 7			60	0.0			SM	10'-12': Med. gray fine sand & silt w/ trace gravel, med. dense, sat.
10	KSB-28: 10							SM	12'-15': Olive gray fine sand w/ trace silt, med. dense, sat.
	KSB-28: 12			100	0.0				
15	KSB-28: 15								
	Boring terminated at 15 feet bgs.								

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 15 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 10 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
									3"-3': Med. brown gravelly fine sand, loose, sl. moist.
5	KSB-29: 3			60	0.0				
	KSB-29: 5								5'-6': Lt. gray-med. brown gravelly fine sand, loose, sl. moist.
	KSB-29: 7				0.5				6'-8': Med. gray fine-med. sand, med. dense, v. moist.
	KSB-29: 9			80					8'-8.5': Olive gray silt w/ trace fine sand, med. dense, sat.
	KSB-29: 12				1.5				8.5'-9': Olive gray fine-med. sand w / silt, med. dense, sat.
10									
	KSB-29: 14.5			100	32.9				10'-15': Med. gray fine-med. sand, med. dense, sat.
15					9.4				
	Boring terminated at 15 feet bgs.								
20									
25									
30									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 10/19/16 Hole Diameter: 2 inch Hole Depth: 15 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 8 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
5	KSB-30: 3			60	0.0		Backfilled with bentonite chips.	SM SP	1.5'-2': Brown fine sand & silt, med dense, moist. 2'-3': Med. brown fine-med. sand, med. dense, moist.
	KSB-30: 6			20	1.7			SP SP	5'-5.5': Same as above. 5.5'-6': Olive brown fine sand w/ silt, med. dense, sat. @ 6 ft.
10	KSB-30: 10			100	3.1				
	KSB-30: 13.5 KSB-30: 15				3.9 21.4 4.3			SM	10'-15': Med. gray fine sand w/ silt, med. dense, sat.
15	Boring terminated at 15 feet bgs.								
20									
25									
30									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 2/28/17 Hole Diameter: 2 inch Hole Depth: 15 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 6 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
									3"-3": Med. brown fine-med. sand w/ gravel med. dense, moist.
5	KSB-31: 3			60	0.0				
					2.2				5'-5.5': Same as above.
	KSB-31: 5.5								
					8.3				5.5'-7': Olive gray silt w/ v. fine sand, stiff, v. moist.
	KSB-31: 7			100					
					4.0				7'-10': Olive gray fine sand, med. dense, sat.
10	KSB-31: 10				0.5				
					0.7				10'-15': Med. gray fine sand w/ silt, med. dense, sat.
	KSB-31: 12			100					
15	KSB-31: 15				0.1				
	Boring terminated at 15 feet bgs.								

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 2/28/17 Hole Diameter: 2 inch Hole Depth: 15 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 7 feet Depth to Water (Static): N/A Well Tag: N/A
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Bothell, Washington

Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
	KSB-32: 3			60	0.6				SP 3"-2.25': Med. brown fine-med. sand w/ gravel, med. dense, sl. moist.
5	KSB-32: 5				2.2		Backfilled with bentonite chips.		ML 2.25'-3': Olive brown v. fine sand & silt, med. dense, moist.
									SP 5'-6.5': Same as above. Saturated @ 6 feet.
	KSB-32: 7.5			100	4.7 8.1				ML 6.5'-7.5': Olive gray silt w/ trace clay, stiff, sat.
10	KSB-32: 10				0.5				SM 7.5'-10': Olive gray fine sand w/ silt, med. dense, sat.
	KSB-32: 11.5				0.4				
15	KSB-32: 15			100					SM 10'-15': Olive gray fine sand w/ trace silt, med. dense, sat.
									Boring terminated at 15 feet bgs.
20									
25									
30									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 2/28/17 Hole Diameter: 2 inch Hole Depth: 15 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 6 feet Depth to Water (Static): N/A Well Tag: N/A
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18107 Bothell Way NE
Bothell, Washington

Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
					N/A			0-9": Asphalt. Note: Air knife down to ~5 feet. Yellow-brown sand w/ gravel (fill).
KSB-33: 6			100	0.0		Backfilled with bentonite chips.	SP	5'-6': Yellow-brown sand w/ gravel (fill).
KSB-33: 10			100	0.0	ML		6'-8.5': Yellow-brown silt w/ fine sand layers & tr. orange mottling, moist-wet.	
KSB-33: 15			100	0.0	ML		8.5'-10': Gray silt, stiff, wet.	
KSB-33: 20			100	1.7	ML		10'-15': Same as above, moist-wet.	
KSB-33: 25			100	2.4	SM		15'-20': Grading to fine sand w/ tr. silt, med. dense, wet.	
			100	0.9				
			100	0.6				
			100	0.0				
								20'-25': Fine sand w/ silty layers, med. dense, wet.
								Boring terminated at 25 feet bgs.

Logged by: Vance Atkins Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/7/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 8.5 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
5	KSB-34: 5								
				100	0.0				SM 5'-7.5': Yellow-brown interbedded silt & silty sand w/ tr. orange mottling, moist-wet.
10	KSB-34: 10				0.0				ML 7.5'-10': Gray silt, stiff, moist.
				100					
15	KSB-34: 13				54				ML 10'-15': Same as above, w/ fine sand, wet.
				100					
20	KSB-34: 20				2.4				ML 19'-20': Dk. gray silt.
				100					
25	KSB-34: 25				1.3				SP 20'-24': Gray fine-med. sand w/ silt, wet.
				100					
					1.1				ML 24'-25': Gray silt, stiff, wet.
									Boring terminated at 25 feet bgs.

Logged by: Vance Atkins Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/7/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 10 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
5	KSB-35: 5			100	0.0		Backfilled with bentonite chips.	SM	5'-6.5': Yellow-red silt w/ fine sand sand, orange mottling, med. dense, moist-wet.
								ML	6.5'-10': Gray silt, stiff, moist.
10	KSB-35: 10 KSB-35: 11			100	5.0 54			ML	10'-14': Grading to fine sandy silt, wet.
								SM	14'-15': Gray fine sand w/ tr. silt, med. dense, wet.
15	KSB-35: 15 KSB-35: 17			100	1.0 18.9			SM	15'-21': Same as above.
								ML	21'-22': Silty layer.
20	KSB-35: 20 KSB-35: 25			100	1.5 0.0 0.1 0.0			SP	22'-25': Gray fine-med. sand, med. dense, wet.
25									Boring terminated at 25 feet bgs.
30									

Logged by: Vance Atkins Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/7/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 10 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
				60	0.0			SM	0'-2': Lt. brown silty sand.
								SP	2'-3': Dk. red-brown sand w/ gravel, med. dense, dry.
5	KSB-36: 5								
				100	0.0			SM	5'-10': Yellow-gray silty sand w/ silt layers, orange mottling, moist w/ wet seams.
10	KSB-36: 10						Backfilled with bentonite chips.		
				100	0.0			ML	10'-15': Grading to gray silt w/ fine sandy silt seams, stiff, moist w/ wet seams.
15	KSB-36: 15				0.0				
	KSB-36: 17			100	20			ML	15'-18': Silt w/ sandy seams, wet.
20	KSB-36: 20				14			SM	18'-20': Grading to silty fine sand.
				100	1.1			SM	20'-24': Grading to fine sand w/ tr. silt, med. dense, wet.
25	KSB-36: 25				0.0			ML	24'-25': Silt layers.
								Boring terminated at 25 feet bgs.	
30									

Logged by: Vance Atkins Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/7/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 6 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
				60	0.0			SP	3"-3': Dk. red-brown silty sand w/ gravel (fill), dry-moist.
5	KSB-37: 5								
				100	0.0			SM	5'-9.5': Yellow-gray silt w/ fine sand, tr. orange mottling, moist.
10	KSB-37: 10								
				100	0.0			ML	9.5'-12': Gray silt, stiff, moist.
15	KSB-37: 15								
				100	0.0			ML	12'-15': Gray silt, stiff, wet-moist.
20	KSB-37: 20				0.0				
				100	4.0			ML	15'-20': Same as above, w/ wet seams, peat fragment @ 17 ft.
25	KSB-37: 25				5.0				
				100	15			ML	20'-25': Gray silt w/ fine sand, stiff, wet.
									Boring terminated at 25 feet bgs.

Backfilled with bentonite chips.

Logged by: Vance Atkins Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/7/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 12 feet Depth to Water (Static): N/A Well Tag: N/A
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Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
				50	0.0				SP 0.5'-2.5': Olive gray fine-med. sand & gravel, loose, sl. moist.
5	KSB-38: 5								SP 5'-5.5': Same as above.
									SP 5.5'-7': Olive gray fine sand, med. dense, v. moist.
				80	0.0				ML 7'-9': Med. gray silt w/ tr. clay, med. stiff, wet.
10	KSB-38: 9				0.0				ML 10'-12': Same as above.
				80	34.1				SM 12'-14': Med. gray interbedded silt & fine sand, med. dense, wet.
15	KSB-38: 13				68.9				
					35.9				
				100	5.5				SP 15'-20': Med. gray fine sand, med. dense, wet.
20	KSB-38: 20				1.7				
					0.4				
				100	0.4				SP 20'-25': Med. gray fine-med. sand w/ tr. silt, med. dense, wet. Tr. gravel @ 25 ft.
25	KSB-38: 25				1.8				
					0.2				
	Boring terminated at 25 feet bgs.								

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 7 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
						N/A			0-3": Asphalt.
								SP	3"-0.5': Red orange gravelly med. sand, loose, sl. moist.
				60	0.0			SP	0.5'-1.25': Dk. gray gravelly fine sand w/ tr. silt & wood, med. dense, sl. moist.
								SP	1.25'-3': Lt. brown fine-med. sand w/ gravel, loose, sl. moist.
5	KSB-39: 5				0.4			SP	5'-6': Same as above.
								SP	6'-6.5': Lt. gray fine-med. sand w/ gravel, loose, sl. moist.
				80	0.1			ML	6.5'-9': Med. gray silt w/ tr. fine sand, stiff, v. moist-wet.
					0.0				
10	KSB-39: 10							ML	10'-11': Same as above, wet.
				80	0.1			SM	11'-14': Med. gray fine sand & silt, dense, wet.
15	KSB-39: 15				1.2				
					3.6			SP	15'-19': Med. gray fine sand, med. dense, wet.
				80	34.8				
	KSB-39: 18				9.2				
20	KSB-39: 20				0.7				
								SP	20'-25': Same as above.
				100	0.1				
25	KSB-39: 25				0.1				
Boring terminated at 25 feet bgs.									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 6.5 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
5	KSB-40: 5			50	0.0			SP	1'-2.5': Lt. gray-brown fine-med. sand & gravel, loose, sl. moist.
									5'-6': Olive brown fine sand w/ silt, med. dense, moist.
								SM	6'-6.5': Olive brown clayey silt, stiff, v. moist.
								ML	6.5'-7.5': Olive brown silt w/ tr. fine sand, stiff, moist.
10	KSB-40: 10							ML	7.5'-10': Med. gray silt, stiff, v. moist.
									10'-15': Same as above, wet.
								ML	
15	KSB-40: 15				3.0			SP	15'-18': Med. gray fine sand, med. dense, wet.
									18'-20': Red brown fine sand, med. dense, wet.
								SP	
20	KSB-40: 20				5.3			SP	20'-23': Med. gray fine sand, med. dense, wet.
									23'-25': Red brown fine sand, med. dense, wet.
								SP	
25	KSB-40: 25				0.1			SP	
									Boring terminated at 25 feet bgs.

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 10 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

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							N/A		
5	KSB-41: 5			40	0.0				SP 5'-5.5': Brown-gray med. sand w/ gravel & silt, med. dense, moist. SP 5.5'-6': Brown-gray fine sand w/ tr. silt, med. dense, moist.
				80	0.0				ML 6'-7': Olive brown clayey silt, soft, v. moist-wet. ML 7'-9': Med. gray silt, stiff, wet.
10	KSB-41: 10			80	0.0		Backfilled with bentonite chips.		ML 10'-14': Same as above.
15	KSB-41: 15			80	0.0				ML 15'-19': Same as 7'-9'.
20	KSB-41: 20				0.3				
					0.3				
	KSB-41: 23			100	6.4				SP 20'-25': Med.-Dk. gray fine sand, med. dense, wet.
25	KSB-41: 25				0.0				
Boring terminated at 25 feet bgs.									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 7 feet Depth to Water (Static): N/A Well Tag: N/A
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Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
				60	0.0				SP 1'-2': Med. brown-gray fine-med. sand w/ gravel, loose, moist. SP 2'-3': Olive gray fine sand, med. dense, v. moist.
5	KSB-42: 5								SP 5'-6': Same as above, wet. ML 6'-6.5': Med. gray silt, stiff, wet.
				100	0.0				SP 6.5'-8': Olive brown fine sand, med. dense, wet. ML 8'-9': Med. gray silt, stiff, wet.
10	KSB-42: 10						Backfilled with bentonite chips.		ML 10'-14': Same as above.
				80	0.0				ML 15'-17': Same as 8'-9'.
15	KSB-42: 15								SM 17'-19': Med. gray fine sand w/ tr. silt, med. dense, wet.
				80	0.0				SP 20'-24.5': Med. gray fine sand, med. dense, wet.
20	KSB-42: 20				0.7				ML 24.5'-25': Med. gray silt w/ orange mottling & tr. fine sand, stiff, wet.
				100					Boring terminated at 25 feet bgs.
25	KSB-42: 25				1.4				
30									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 5 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
				30	0.0				GP 1'-1.5': Med. brown sandy gravel, loose, sl. moist.
5	KSB-43: 5				0.4				SP 5'-6': Med. brown fine sand w/ gravel, med. dense, v. moist.
				80	0.0				ML 6'-9': Med. gray silt, stiff, wet.
10	KSB-43: 10				0.0		Backfilled with bentonite chips.		ML 10'-14': Same as above.
				80	0.0				ML 15'-17': Med. gray sil w/ tr. fine sand, stiff, wet.
15	KSB-43: 15				0.0				SP 17'-20': Olive brown fine sand, med. dense, wet.
				100	0.0				SP 20'-23': Olive gray fine sand, med. dense, wet.
20	KSB-43: 20				4.8				ML 23'-25': Orange-brown fine sand, med. dense, wet.
				100	1.8				
				100	2.0				
				100	4.0				
25	KSB-43: 25				4.0				Boring terminated at 25 feet bgs.
30									

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 6 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
						N/A			0-4": Asphalt.
								SP	4"-2': Med. brown fine sand, med. dense, v. moist.
				80	0.0			SP	2'-3': Orange-brown fine sand, med. dense, wet.
				84				SP	3'-4': Med. gray fine sand, med. dense, wet, strong petroleum odor.
5	KSB-44: 4				225				
	KSB-44: 5				180				
				100	1.7			SP	5'-9': Same as above. Petroleum odor decreases below 5 ft.
					3.6			SP	9'-10': Med. brown fine sand, med. dense, wet, sl. petroleum odor.
10	KSB-44: 10				1.3			CL	10'-10.5': Olive gray silty clay, soft, wet, sl. petroleum odor.
				80	0.4			ML	10.5'-14': Olive gray silt w/ tr. fine sand, stiff, wet, no odor.
					0.9				
					0.3				
15	KSB-44: 15				0.0			ML	15'-17': Same as above.
				80	1.7			SP	17'-19': Med. brown fine sand, med. dense, wet.
					0.8				
20	KSB-44: 20				0.4			SP	20'-22': Med. gray fine sand, med. dense, wet.
				100				SM	22'-24': Olive gray fine sand, med. dense, wet.
					0.5			SP	24'-24.5': Olive gray fine-med. sand, med. dense, wet.
25	KSB-44: 25				0.4			SM	24.5'-25': Red brown fine sand w/silt, med. dense, wet.
									Boring terminated at 25 feet bgs.

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 2 feet Depth to Water (Static): N/A Well Tag: N/A
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Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
							N/A		
5	KSB-45: 5			60	0.0				SP 0.5'-3': Olive brown fine sand w/ silt & gravel, med. dense, moist.
									5'-6': Olive brown fine sand w/ silt, orange mottling, med. dense, v. moist.
									6'-6.5': Olive gray clayey silt, soft, v. moist.
				80	0.0				ML 6.5'-7': Med. gray clayey silt, soft, v. moist.
									7'-9': Med. gray silt, stiff, wet.
10	KSB-45: 10								
									10'-12': Med. gray silt w/ orange mottling, soft, wet.
									12'-15': Med. gray silt w/ tr. fine sand, stiff, wet.
15	KSB-45: 15								
									15'-17': Same as above.
									17'-19': Olive brown fine sand w/ tr. silt, med. dense, wet.
20	KSB-45: 20				4.3				
									20'-25': Yellow-brown fine sand, med. dense, wet.
25	KSB-45: 25				2.5				
									Boring terminated at 25 feet bgs.

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/8/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 7 feet Depth to Water (Static): N/A Well Tag: N/A
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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Soil Boring Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
					N/A			0-9": Asphalt. Note: Air knife down to ~4.5 feet.
KSB-46: 7			60	0.2			SM	4.5'-6.5': Dk. red-brown silty sand w/ gravel (fill), moist.
KSB-46: 10				0.0			SM	6.5'-8': Yellow-brown silty sand w/ silt layers & dk. red mottling, moist-wet.
						Backfilled with bentonite chips.		
			100	0.0			ML	10'-13': Yellow-brown silt, stiff, wet.
KSB-46: 15							ML	13'-15': Grading yellow-gray silt w/ fine sand w/ occasional yellow mottled seams.
							ML	15'-16.5': Same as above.
			100	0.0			ML/CL	16.5'-18': Grading yellow-brown clayey silt, soft.
KSB-46: 20							ML	18'-20': Gray silt w/ occasional yellow-red mottled seams, stiff, wet.
							ML	20'-23.5': Same as above, soft-stiff.
KSB-46: 25			100	0.0			SP	23.5'-25': Gray fine sand w/ silt, med. dense, wet.
Boring terminated at 25 feet bgs. Temporary screen set at 25-30 feet. Collected groundwater sample KSB-46-30W								

Logged by: Jeffrey Jensen Driller: ESN Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 6/23/17 Hole Diameter: 2 inch Hole Depth: 25 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): 9.6 feet Depth to Water (Static): N/A Well Tag: N/A
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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
									Concrete.
				100	0.0			SM	Dark brown. Silty sand w/ gravel. Fill. Gravel to 3/4". Moist.
					0.3			SM	Yellow-brown med. sand, med. dense, moist.
5	KSB-D1: 5							SM	Same as above.
				100	0.1			ML	Silt/ silty sand layer. Orange mottled.
								SP	Gray-Brown fine-med. sand w/ trace gravel, mottled, moist.
10	KSB-D1: 10				2.5			SM	Gray-brown fine-med. sand, moist.
					1.0			SM/ML	Grading wet silty seams.
15	KSB-D1: 15			100	0.1			SM	Gray silty fine sand, w/ interbedded silt layers, wet.
					0.0				Note: Stop for day at 20 feet.
20	KSB-D1: 20				0.0			SM	Fine to med. sand w/ silty sand layers.
					0.0				
25	KSB-D1: 25			100	0.0			SM	Light brown fine-med. sand w/ silty sand layers, med. dense, wet. Trace oxidation.
					0.0				
30	KSB-D1: 30				0.0			SM	Light brown to yellow-brown fine silty sand, wet.

Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Sonic Sampling Method: Continuous and Lexan Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 8/25-8/26/16 Hole Diameter: 6 inch Hole Depth: 60 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): ~10 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand	 Well Screen
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Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
30	KSB-D1: 30				0.0			SM	Light brown to yellow brown fine-med. silty sand w/ silt layers/interbedded, med. dense, wet.
35	KSB-D1: 35			100	0.0			SM	
40	KSB-D1: 40				0.0			SM	As above, grading gray.
45	KSB-D1: 45			100	0.0			SM	Gray silty fine sand w/ silt layers. Trace gravels to 3/4", med. dense to dense.
50	KSB-D1: 50				0.0			SM	50'-55': Lexan Liner Sampler. Gray silty sand
55	KSB-D1: 55			100	0.0			SM	Gray silty med. sand, wet.
					0.0			SP	55'-60': Lexan Liner Sampler. Gray med. sand, wet, trace coarse sand, very dense.
60	KSB-D1: 60			100	0.0			SP	Gray fine sand w/ trace silt. Very moist.

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous and Lexan
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 8/25-8/26/16
 Hole Diameter: 6 inch
 Hole Depth: 60 feet
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): N/A
 Well Tag: N/A

 Concrete
 Bentonite
 Sand

 Well Screen



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
								Concrete.	
					0.0			SP	Yellow brown med. sand, loose to med. dense, moist.
	KSB-D2: 2			100				SM	Dark red brown silty sand w/ gravel. Brick debris, moist.
								SP	Decreasing debris, sand w/ gravel, Yellow-brown.
5					1.6			ML	Light gray-brown silt w/ clay. Moist, stiff. Orange mottling.
								SP	Yellow-gray fine sand. Med. dense. Grading yellow-brown. Slight mottling.
				100					Grading wet. Trace silt.
10	KSB-D2: 10				0.6			SP	Same as above. Grading gray, wet.
								SP	Grading fine sand. Occasional silt seams.
					0.0				
15				100				SM	Yellow-red layer. Fine sand w/ silt.
					0.0			SM	Grading silty fine sand. Gray to gray-brown layers. Med. dense.
								SP	Gray fine sand w/ silt seams. Moist to wet.
20	KSB-D2: 20				0.0			SP/SM	Grading gray med. sand w/ fine silty sand layers to 1" thick, wet.
					0.4			SM	
25				100					
					0.1				
					0.0			SP	Grading gray-brown fine sand w/ trace silt.
30	KSB-D2: 30				0.0				

Note: Casing to 30', Heave to 23'. Load hole w/water.

Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Sonic Sampling Method: Continuous and Lexan Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 8/25/16 Hole Diameter: 6 inch Hole Depth: 50 Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): ~8 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand	 Well Screen
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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Soil Boring Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
30					0.0			SM	Same as above. Gray-brown fine-med. sand w/ silt.
					0.0			SM	Silt decreasing w/ depth, slight oxidation.
35				100	0.0			SM	Light gray-brown silt and fine sand. Stiff, wet, trace mottling/oxidation.
					0.0			SM	Gray med. sand, med. dense, wet, trace silt.
40	KSB-D2: 40				0.0			SM	Dense light brown silt, fine sand, moist, trace oxidation.
				100					40'-45': Lexar Liner Sample. Heave to 39.' Wash down casing to 45'.
45					0.0			SM	Gray silty sand, wet.
				50					45'-50': Lexar Liner Sample. Some slumping of samples.
50	KSB-D2: 50				0.0			ML	Gray silt w/ fine sand, stiff.
55									Boring terminated at 50 feet bgs.
60									

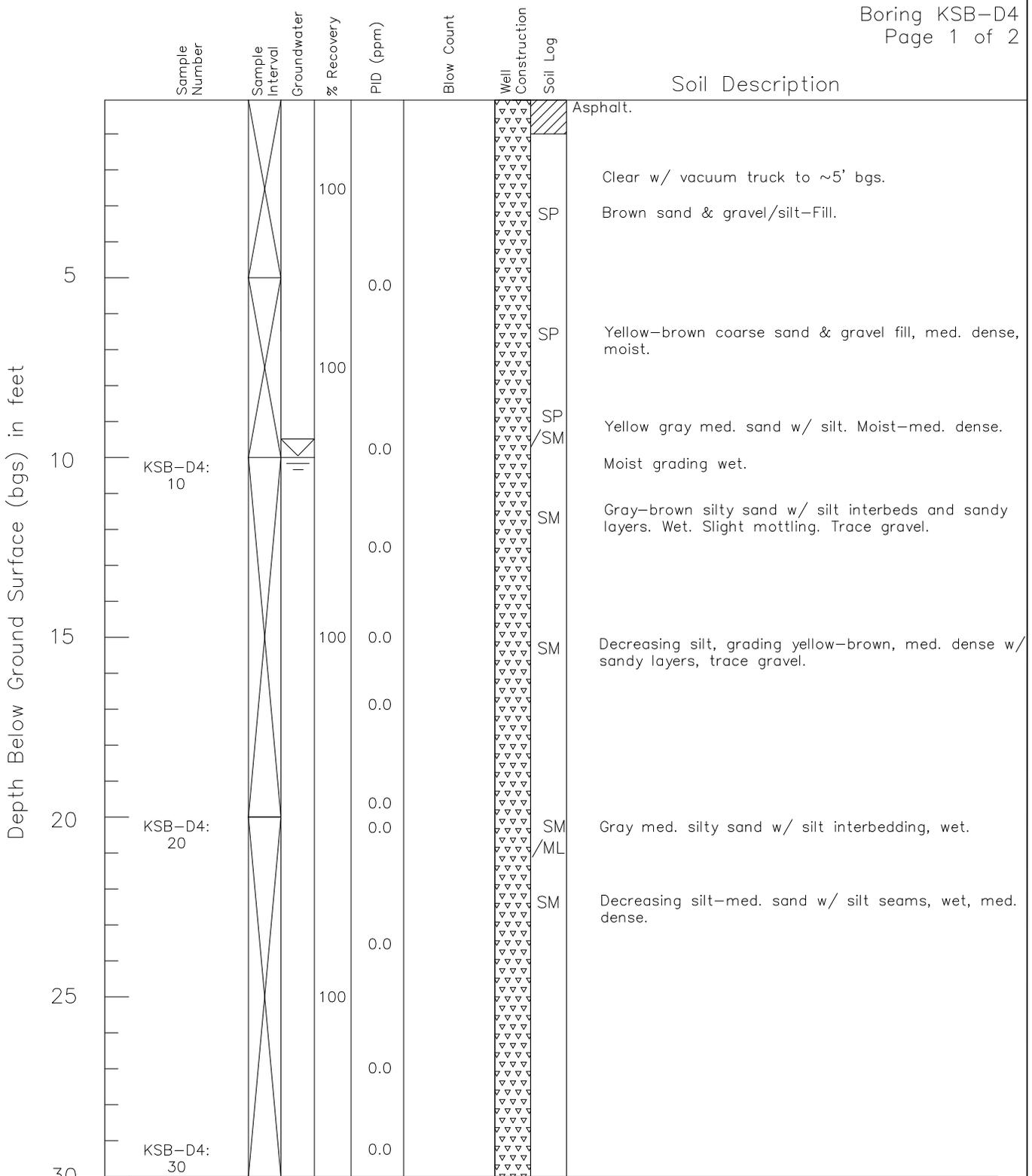
Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Sonic Sampling Method: Continuous and Lexar Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 8/25/16 Hole Diameter: 6 inch Hole Depth: 50 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): ~8 feet Depth to Water (Static): N/A Well Tag: N/A Concrete Bentonite Sand Well Screen
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Remedial Investigation / Feasibility Study
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Bothell, Washington

Soil Boring Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous and Lexan
 Casing Type: N/A
 Annular Pack: N/A
 Slot Size: N/A
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 9/7/16
 Hole Diameter: 6 inch
 Hole Depth: 50
 Well Diameter: N/A
 Well Depth: N/A
 Screened Interval: N/A

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): N/A
 Well Tag: N/A

 Concrete
 Bentonite
 Sand

 Well Screen



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Soil Boring Log

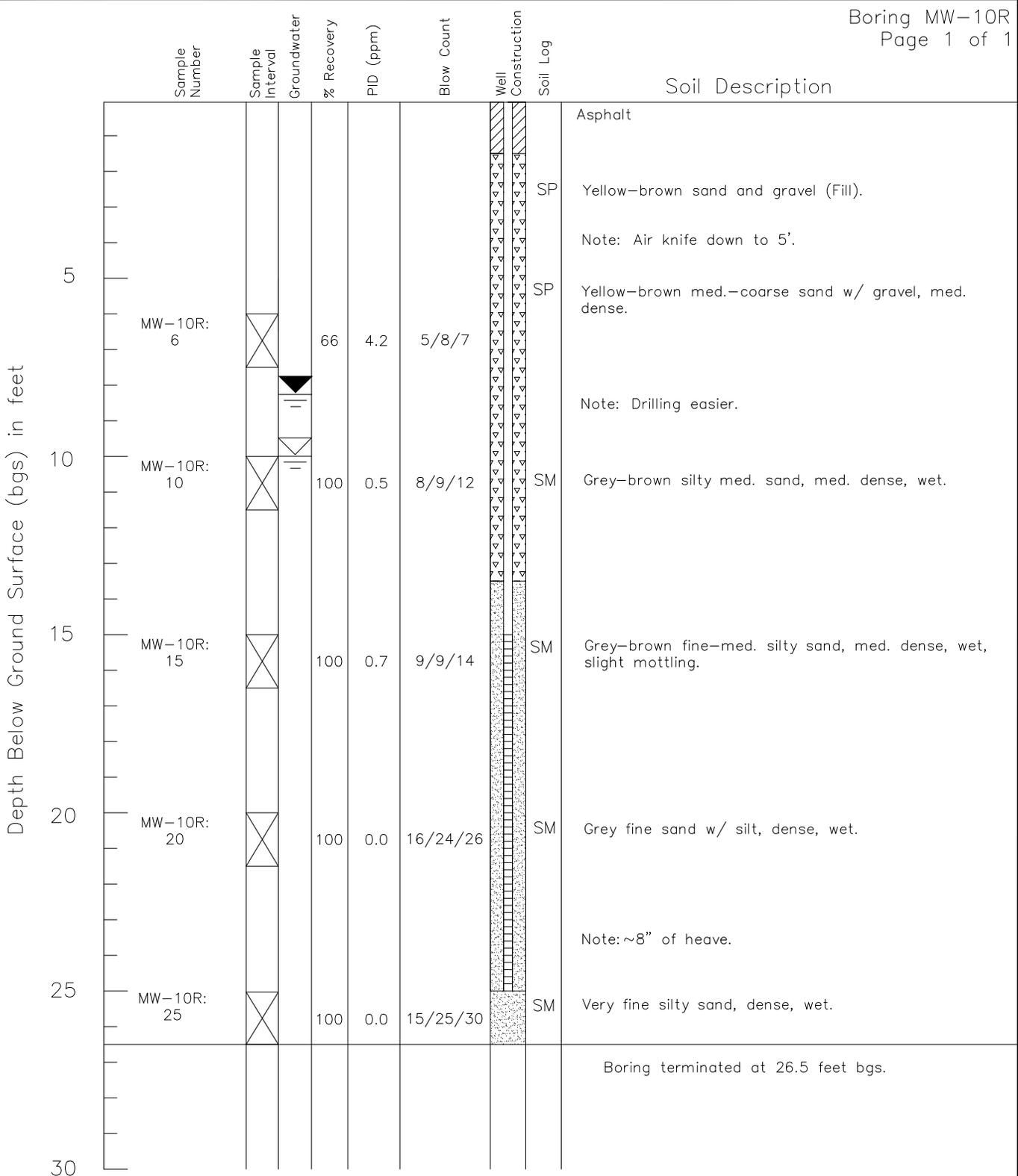
Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30					0.0			SM
35				100	0.0			SM	Grey med. sand w/ fine-med. silty sand interbeds, med. dense, wet.
40	KSB-D4: 40			100	0.0			SM	Grey sand w/ silt, dense, wet.
45				100	0.0			SM	40'-45': Lexan Liner Sample. Grading very dense.
50	KSB-D4: 50			100	0.0			SM	Gray silty sand w/ fine gravel (trace). 45'-50': Lexan Liner Sample. Grading moist.
55									Boring terminated at 50 feet bgs.
60									

Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Sonic Sampling Method: Continuous and Lexan Casing Type: N/A Annular Pack: N/A Slot Size: N/A Soils classified visually using the Unified Soils Classification System	Hammer Size: N/A Date Drilled: 9/7/16 Hole Diameter: 6 inch Hole Depth: 50 feet Well Diameter: N/A Well Depth: N/A Screened Interval: N/A	Depth to Water (First Encountered): ~10 feet Depth to Water (Static): N/A Well Tag: N/A  Concrete  Bentonite  Sand  Well Screen
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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Soil Boring Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/15/16
 Hole Diameter: 6 inch
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 25 feet
 Screened Interval: 15-25 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 8.31 ft on 11/1/16
 Well Tag:

 Concrete
 Bentonite
 Sand

 Well Screen

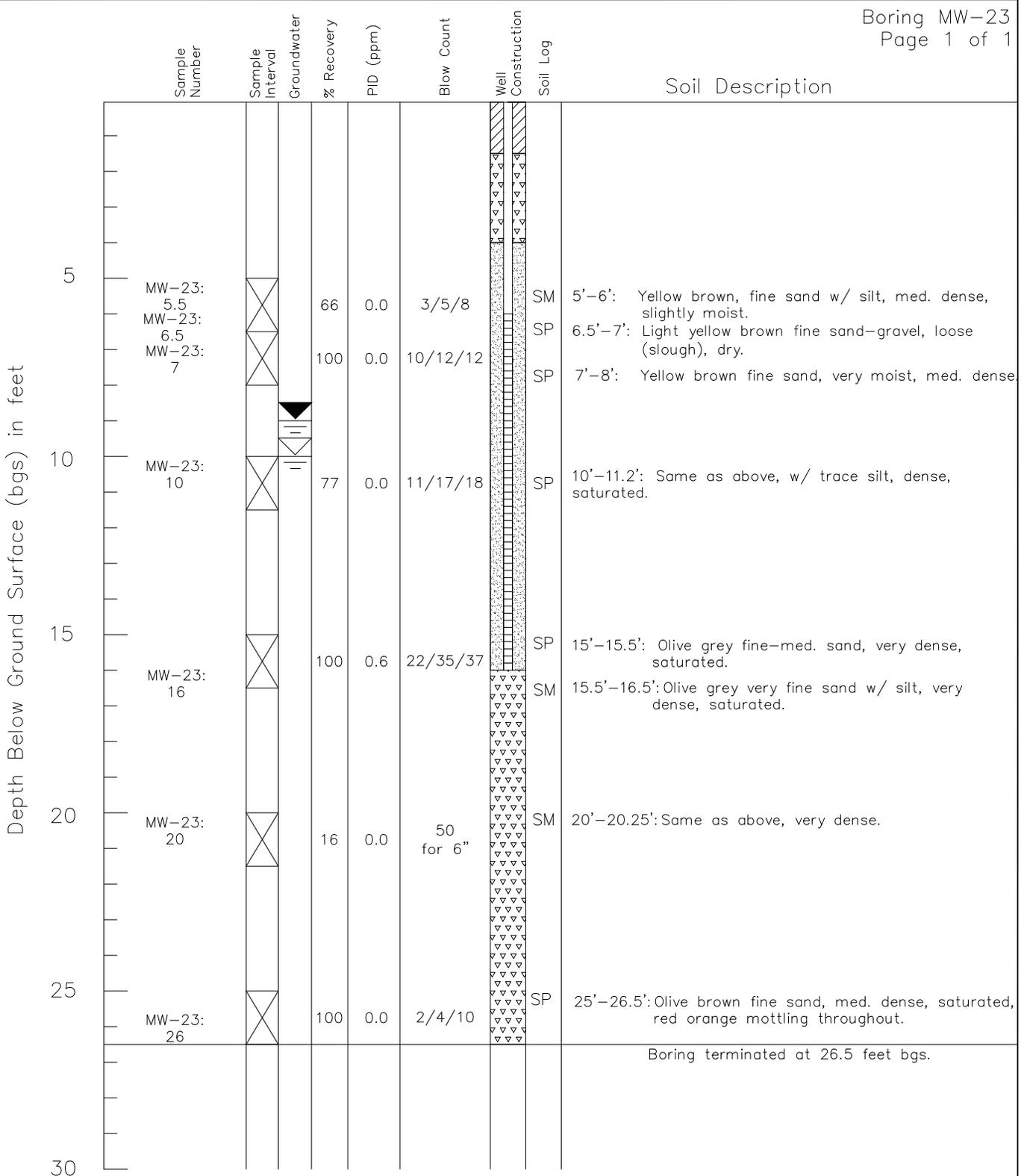
Soils classified visually using the Unified Soils Classification System



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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

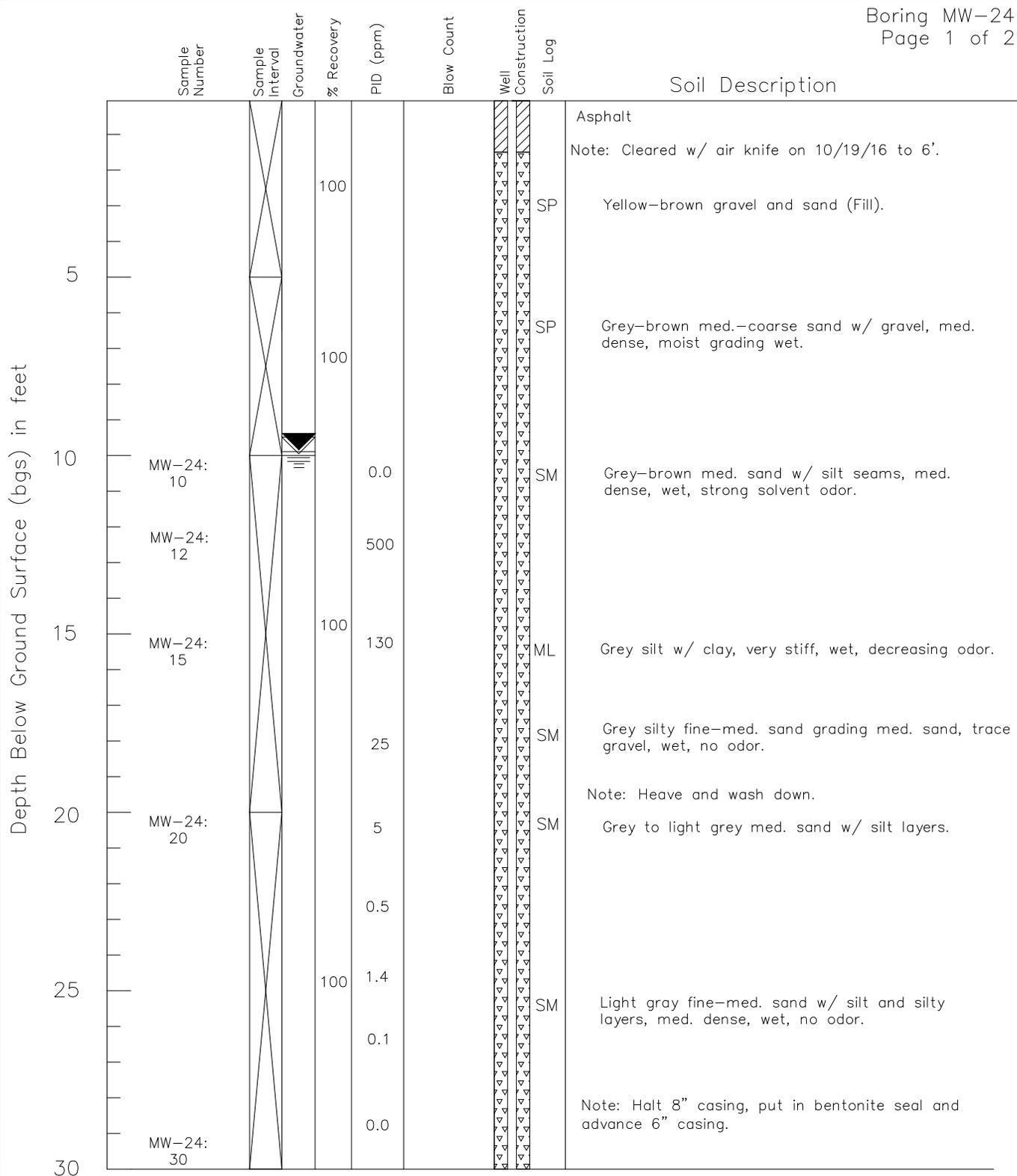
Hammer Size: 140 lbs
 Date Drilled: 8/26/16
 Hole Diameter: 6 inch
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 16 feet
 Screened Interval: 6-16 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 8.92 ft on 9/12/16
 Well Tag: BJJ 040

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"
 Soils classified visually using the Unified Soils Classification System

Hammer Size: N/A
 Date Drilled: 10/31/16
 Hole Diameter: 8-6 inch
 Hole Depth: 55 feet
 Well Diameter: 2 inch
 Well Depth: 54 feet
 Screened Interval: 44-54 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 9.88 ft on 11/1/16
 Well Tag:

 Concrete
 Bentonite
 Sand

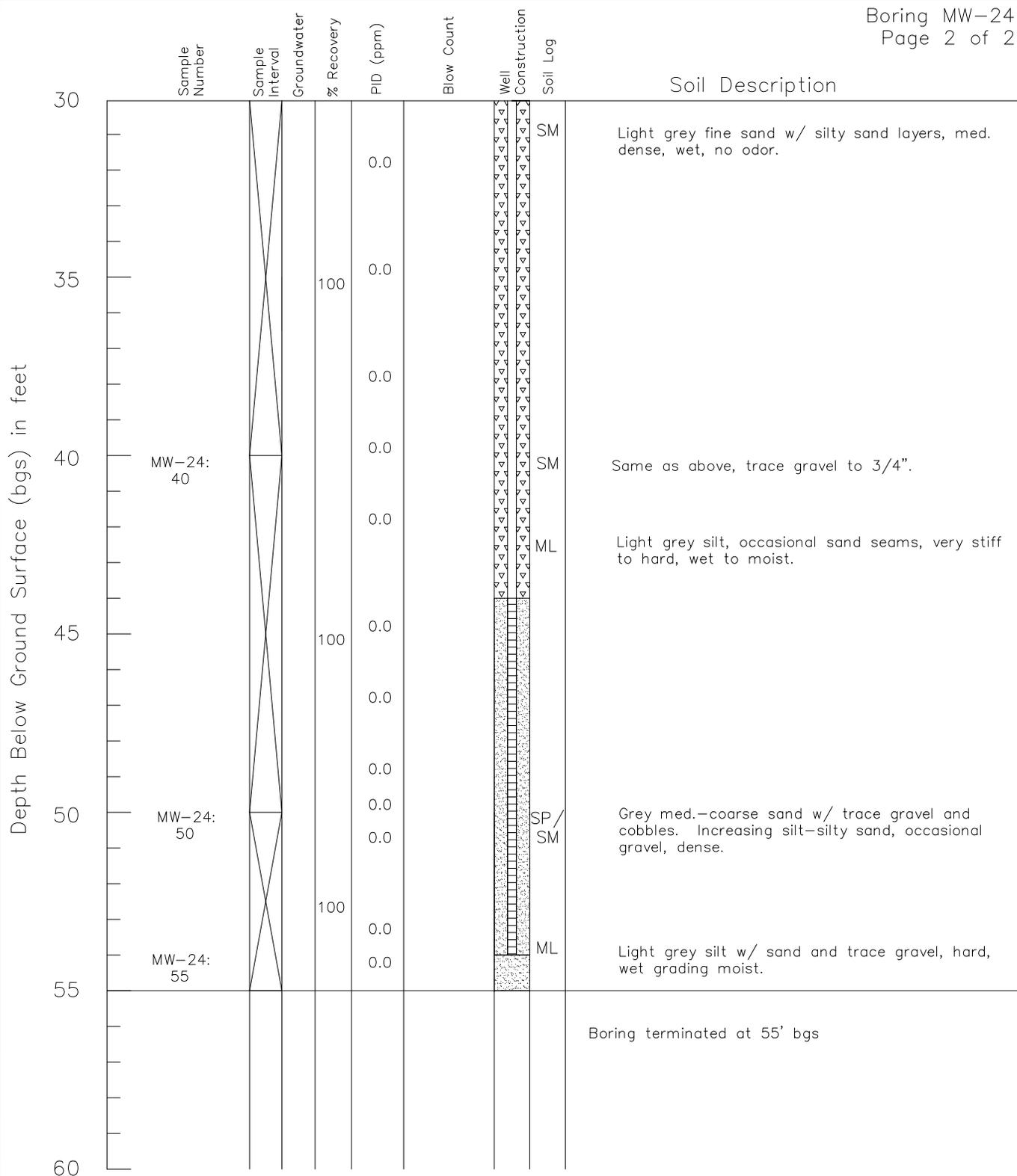
 Well Screen



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Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Recovery
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 10/31/16
 Hole Diameter: 8-6 inch
 Hole Depth: 55 feet
 Well Diameter: 2 inch
 Well Depth: 54 feet
 Screened Interval: 44-54 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 9.88 ft on 11/1/16
 Well Tag:

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System

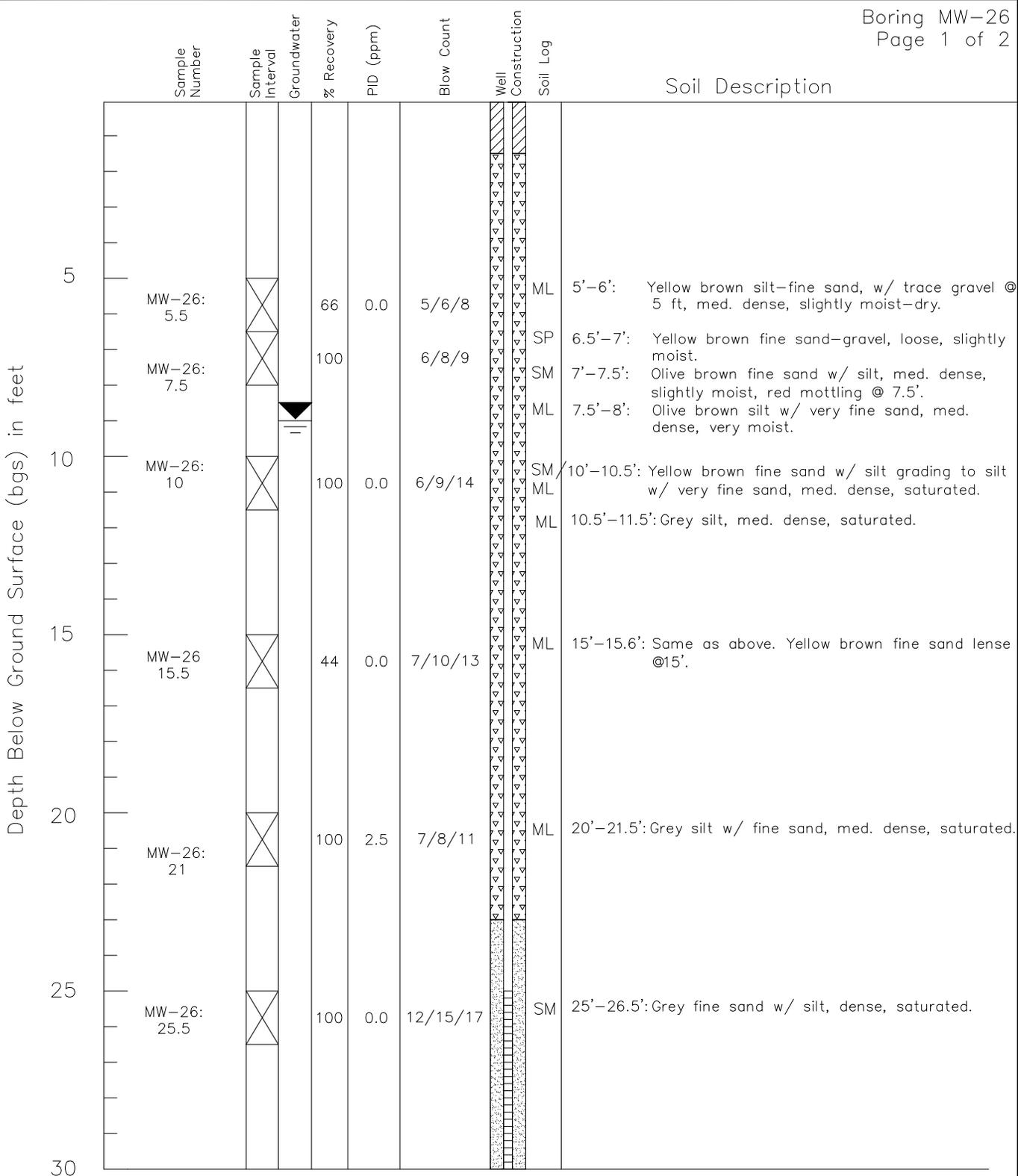
Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
5	MW-25: 6			66	0.0	4/6/7		SM	Med. dense yellow-brown fine sand, interbedded w/ light brown silt, moist.
	MW-25: 7			100	0.0	4/8/10		SM	6.5'-7': Olive brown very fine sand w/ silt, med. dense, moist.
								ML	7'-8': Olive brown silt w/ very fine sand, med. dense, moist.
10	MW-25: 10.5			100	0.0	11/13/14		ML	10'-11.5': Dark gray silt, med. dense, very moist-saturated @11.5'.
15	MW-25: 15.5			77	0.0	8/9/10		ML	15'-16.2': Same as above, saturated.
20	MW-25: 20			77	8.3	6/8/11		ML	20'-21.2': Dark grey silt w/ very fine sand, med. dense, saturated.
25	MW-25: 25			77	1.2	15/16/20		SM	25'-26.2': Dark grey fine sand w/ silt, dense, saturated.
30	Boring terminated at 26.5 feet bgs.								

Logged by: Jeffrey Jensen Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 8/25/16 Hole Diameter: 6 inch Hole Depth: 26.5 feet Well Diameter: 2 inch Well Depth: 17.5 feet Screened Interval: 7.5-17.5 feet	Depth to Water (First Encountered): ~9 feet Depth to Water (Static): 9.22 ft on 9/12/16 Well Tag: BJJ 038
Soils classified visually using the Unified Soils Classification System	Concrete Bentonite Sand	Well Screen



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/25-8/26/16
 Hole Diameter: 6 inches
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 9.04 ft on 9/12/16
 Well Tag: BJJ 039

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	MW-26: 31	X		100	0.6	10/12/15		SM
35	MW-26: 35	X		100	2.9	17/19/22		SM	35'-36.5': Grey fine sand w/ silt, dense, saturated.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Jeffrey Jensen Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010" Soils classified visually using the Unified Soils Classification System	Hammer Size: 140 lbs Date Drilled: 8/25-8/26/16 Hole Diameter: 6 inch Hole Depth: 36.5 feet Well Diameter: 2 inch Well Depth: 35 feet Screened Interval: 25-35 feet	Depth to Water (First Encountered): ~9 ft Depth to Water (Static): 9.04 ft on 9/12/16 Well Tag: BJX 039 Concrete Bentonite Sand Well Screen
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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
5	MW-27: 2.5			33	0.0	4/17/16		SM	Red-brown silty sand and gravel (Fill). Gravel to 3/4"-broken, dense, dry-moist.
	MW-27: 5			100	0.0	7/6/7		SM	Same as above, med. dense.
								ML	Brown silt w/ fine sand seams, stiff.
	MW-27: 7.5			100	0.0	7/8/10		SP	Yellow red fine-med. sand @ shoe.
								ML	Gray-brown silt, stiff, wet.
10	MW-27: 10			100	0.0	6/6/8		ML	Same as above.
								SP	Brown fine sand, med. dense, wet.
15	MW-27: 15			100	0.0	8/11/16		SM	Brown fine sand w/ silty sand interbedding, med. dense, wet.
20	MW-27: 20			100	0.0	8/15/23		SP	Brown fine-med. sand, dense, wet, occasional oxidation.
								SP	Same as above, dense, trace oxidation.
25	MW-27: 25			100	0.0	10/20/20		SM	Brown fine silty sand, dense, wet.
30	Boring terminated at 25 feet bgs.								

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/25/16
 Hole Diameter: 6 inch
 Hole Depth: 25 feet
 Well Diameter: 2 inch
 Well Depth: 16 feet
 Screened Interval: 6-16 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 10.43 ft on 9/12/16
 Well Tag: BJJ 041

 Concrete
 Bentonite
 Sand

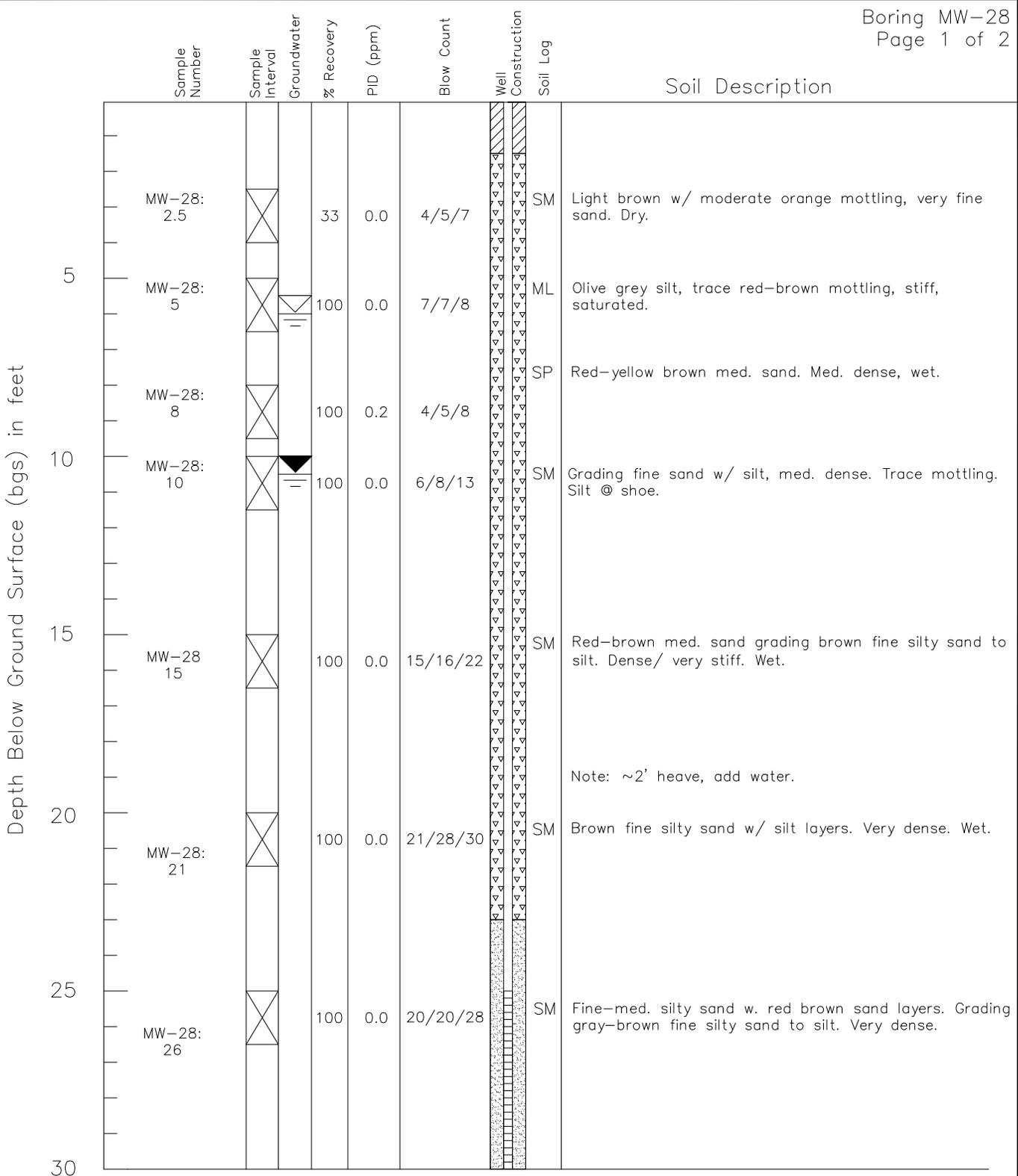
 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/29/16
 Hole Diameter: 6 inches
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~6 feet
 Depth to Water (Static): 10.39 ft on 9/12/16
 Well Tag: BJX 042

Concrete
 Bentonite
 Sand

Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	MW-28: 31	X		100	0.0	18/21/22		SM
35	MW-28: 36	X		100	0.0	20/25/30		ML	Grey-brown silt. Hard. Wet.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/29/16
 Hole Diameter: 6 inch
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~6 feet
 Depth to Water (Static): 10.39 ft on 9/12/16
 Well Tag: BJX 042

Concrete
 Bentonite
 Sand

Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
5	MW-29: 3			66	0.0	3/7/8		ML	2.5'-3.25': Very orangish-brown silt and very fine sand.
								SP	3.25'-3.5': Fine and med. sand, orangish-brown, w/ gravels at 3.25'. Med. dense.
	MW-29: 6			100	0.0	4/5/9		ML	5'-6.5': Olive grey w/ moderate orange mottling silt w/ trace clay, med. dense.
	MW-29: 8			66	0.0	6/8/9		ML	7.5'-7.75': Same as above. Very moist.
10								SP	7.75'-8.5': Med. brown fine-med. sand, saturated.
	MW-29: 11			100	0.0	2/8/10		ML	10'-11.25': Olive grey silt, med. dense, very moist.
15								SP	11.25'-11.5': Olive grey fine sand w/ slight orange mottling.
	MW-29: 16			100	0.0	19/18/17		SP	15'-15.25': Med. brown med. sand, dense, very moist.
20								SP	15.25'-15.5': Med. brown med. sand and gravels w/ 1" large gravel, very moist.
								SP	15.5'-16.5': Med. brown med. sand w/ few gravel, saturated.
	MW-29: 21			100	0.0	20/23/28		SP	20'-21.5': Olive grey very fine sand, very dense, saturated.
25								SP	25'-26': Same as above.
	MW-29: 26			100	0.0	8/23/25		ML	26'-26.5': Light brown w/ heavy orange mottling, silt w/ very fine sand. Very dense. Saturated.
30									

Logged by: Justin Vetter
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/30/16
 Hole Diameter: 6 inch
 Hole Depth: 56 feet
 Well Diameter: 2 inch
 Well Depth: 55 feet
 Screened Interval: 45-55 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 10.50 ft on 9/12/16
 Well Tag: BJX 043

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
30	MW-29: 31.5			100	0.0	16/22/27	ML	ML	30'-31.5': Olive grey silt w/ trace very fine sand, hard, saturated, moderate dark orange mottling @ 31.25-31.5
35	MW-29: 36			100	0.0	12/22/34	ML	ML	35'-36.5': Same as above.
40	MW-29: 41			100	0.0	23/28/37	ML	ML	40'-41.5': Med. grey silt w/ trace very fine sand, hard, saturated.
45	MW-29: 46			100	0.0	34/43/50 for 6"	SP	SP	45'-46.25': Med. grey fine and med. sand w/ few gravels, very dense, saturated. 46.25'-46.5': Med. grey med. sand w/ gravels, saturated.
50	MW-29: 50			100	0.0	50 for 6"	ML	ML	50'-50.5': Med. grey silt, saturated (rock in cutting shoe).
55	MW-29: 55.5			100	0.0	23/50 for 6"	SP	ML	55'-55.75': Med. grey med. sand, very dense, saturated. 55.75'-56': Med. grey silt, saturated.
60									Boring terminated at 56' bgs.

Logged by: Justin Vetter
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/30/16
 Hole Diameter: 6 inch
 Hole Depth: 56 feet
 Well Diameter: 2 inch
 Well Depth: 55 feet
 Screened Interval: 45-55 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 10.50 ft on 9/12/16
 Well Tag: BJX 043

 Concrete
 Bentonite
 Sand

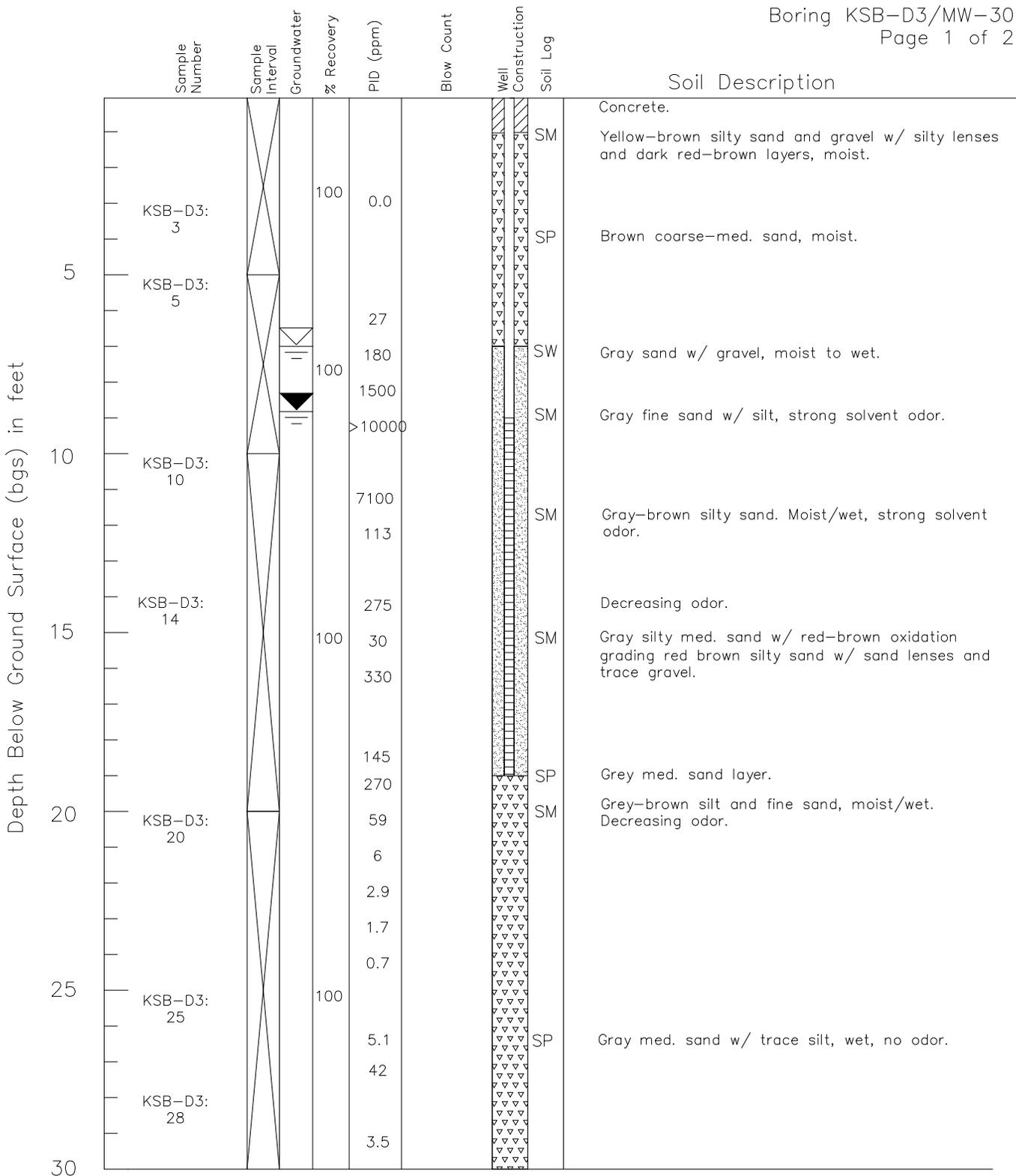
 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous and Lexan
 Casing Type: PVC
 Annular Pack: Sand
 Slot Size: .010"

Hammer Size: N/A
 Date Drilled: 8/29/16
 Hole Diameter: 6 inch
 Hole Depth: 60 feet
 Well Diameter: 2 inch
 Well Depth: 19 feet
 Screened Interval: 9-19 feet

Depth to Water (First Encountered): ~7 feet
 Depth to Water (Static): 8.81 ft on 9/12/16
 Well Tag: BJX 204

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description	
30					5.8		Well Construction: Bentonite (9-19 feet)	SM	Med. dense, gray med. sand w/ silt & silty sand layers, wet.	
					7					
					19					
					5					
					11.6					
35				100	27.9				SP	Decreasing silt. Gray fine-med. sand, trace silt, wet.
					4.8					
					2.2					
40	KSB-D3: 40				0.1				SM	40'-42': Med. gray fine sand w/ silt, very moist.
					0.2					
					0.1				ML	42'-49': Med. gray silt w/ trace fine sand, slightly moist.
45				100	9.0					
					35.7					
					47.4					
					131					
50	KSB-D3: 50				142				ML	49'-50': Med. gray silt w/ med. sand, slightly moist.
				100						
					0.3				SM	50'-55': Lexan Liner Sample Gray med. silty sand, dense, wet.
55					1.0			SM	Gray silty sand w/ gravel, very dense, wet (Till?)	
				100						
					0.0			ML	55'-60': Lexan Liner Sample. Gray sandy silt, stiff, wet.	
60	KSB-D3: 60				2.0			SM	Gray silty sand, dense, wet.	

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous and Lexan
 Casing Type: PVC
 Annular Pack: Sand
 Slot Size: .010"

Hammer Size: N/A
 Date Drilled: 8/29/16
 Hole Diameter: 6 inch
 Hole Depth: 60 feet
 Well Diameter: 2"
 Well Depth: 19 feet
 Screened Interval: 9-19 feet

Depth to Water (First Encountered): ~7 feet
 Depth to Water (Static): 8.81 ft on 9/12/16
 Well Tag: BJB 204

 Concrete
 Bentonite
 Sand

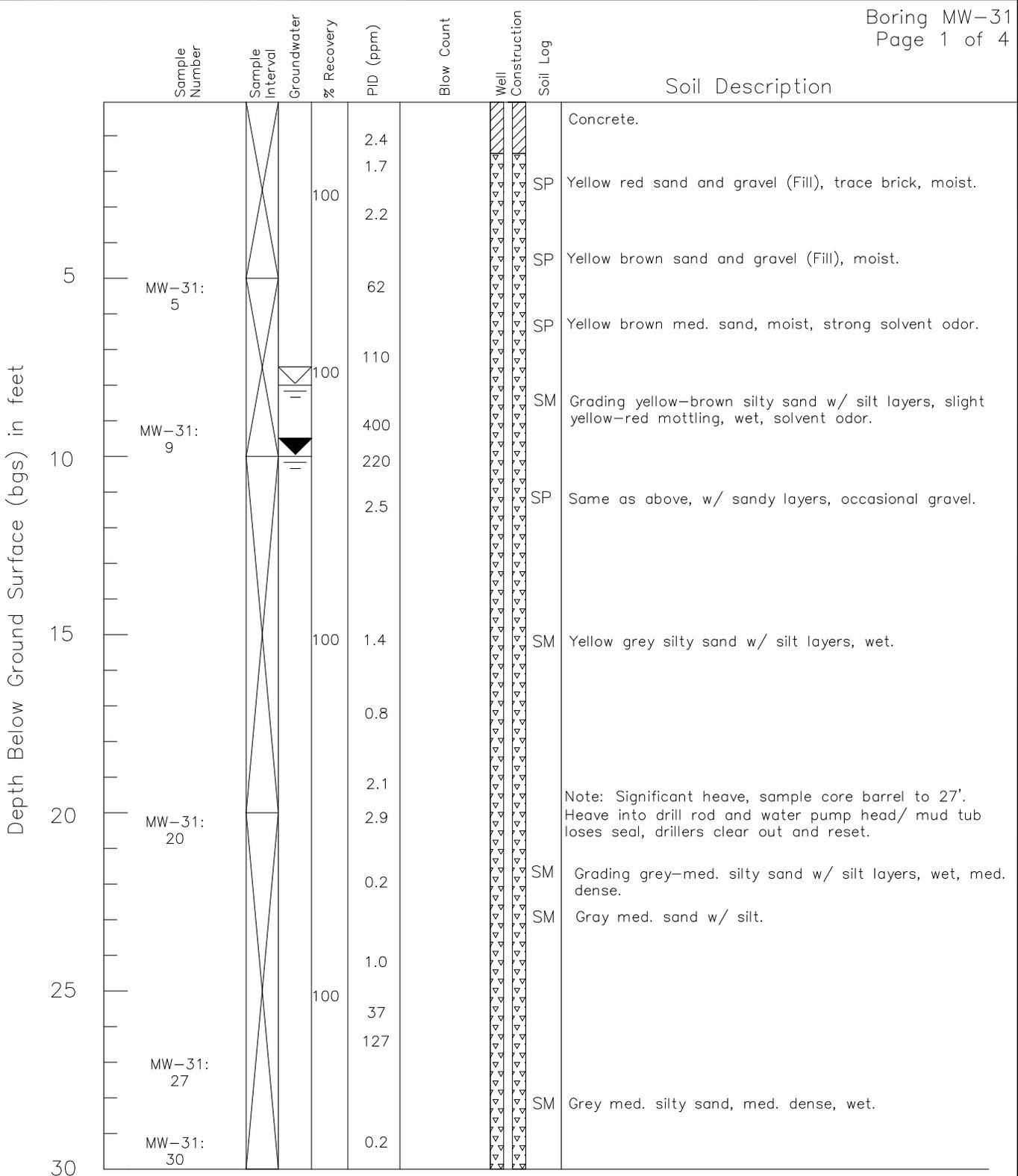
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Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log



Logged by: Justin Vetter and Vance Atkins Hammer Size: N/A Depth to Water (First Encountered): ~8 ft
 Driller: Holt Services, Inc. Date Drilled: 8/30-8/31/16 Depth to Water (Static): 9.81 ft on 9/12/16
 Drilling Method: Sonic Hole Diameter: 6 inch Well Tag: BJX 205
 Sampling Method: Continuous Bag Hole Depth: 100 feet
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet

 Concrete  Well Screen
 Bentonite
 Sand

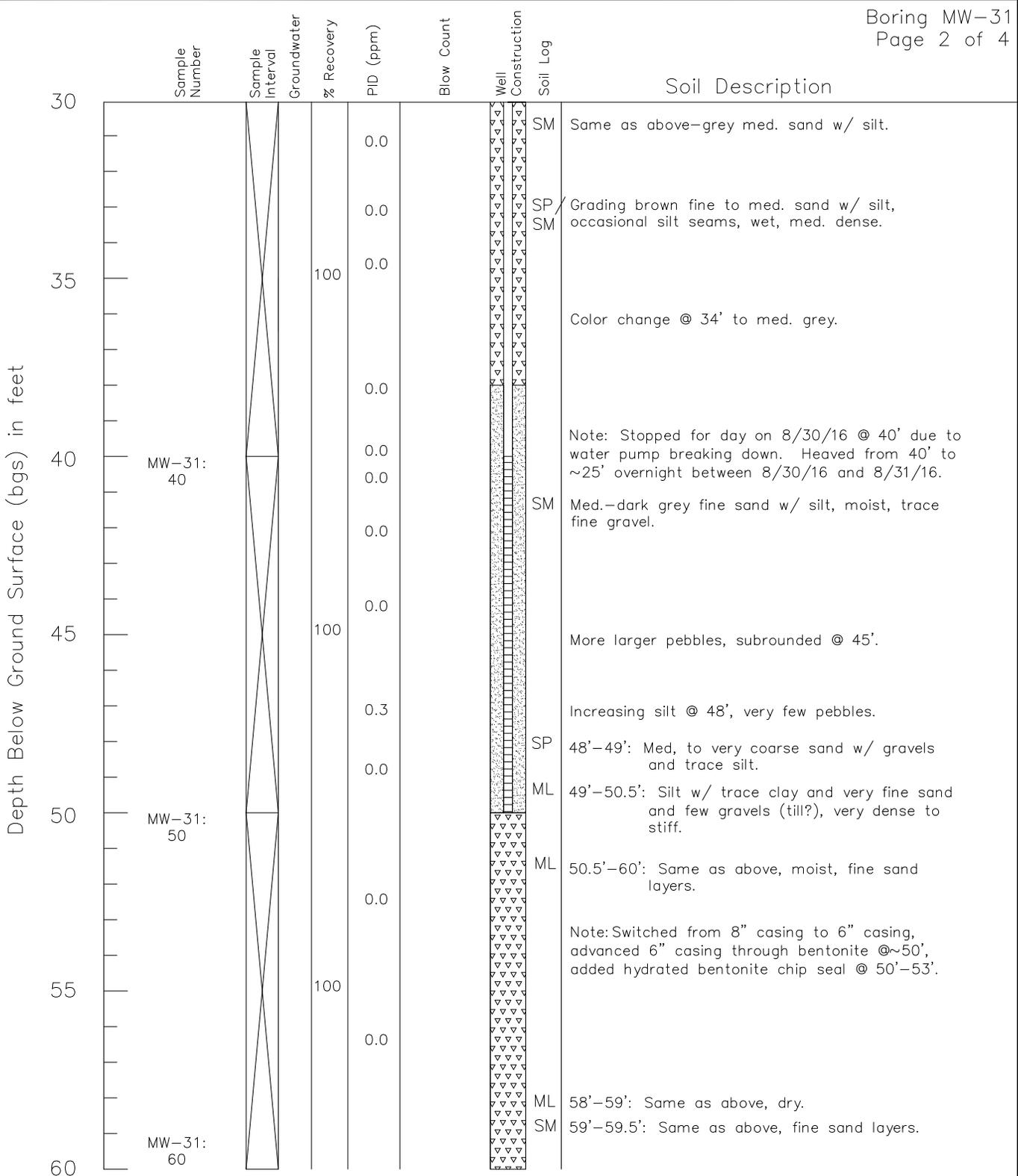
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Remedial Investigation / Feasibility Study
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Bothell, Washington

Well Construction Log



Logged by: Justin Vetter and Vance Atkins Hammer Size: N/A Depth to Water (First Encountered): ~8 feet
 Driller: Holt Services, Inc. Date Drilled: 8/30-8/31/16 Depth to Water (Static): 9.81 ft on 9/12/16
 Drilling Method: Sonic Hole Diameter: 6-8 inch Well Tag: BJX 205
 Sampling Method: Continuous Bag Hole Depth: 100 feet
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet

Soils classified visually using the Unified Soils Classification System

[Diagonal Lines] Concrete [Vertical Line] Well Screen
 [Inverted Triangles] Bentonite
 [Dotted] Sand



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
60					0.0			ML	60'-70': Same as above. Slightly moist.
65				100	0.0				
70	MW-31: 70				0.0			ML	70'-73': Same as above.
75				100	0.0			ML	73'-80': Same as above, with some clay and very fine gravels. Very stiff, very slightly moist.
80	MW-31: 80				0.0			ML	80'-90': Same as above, hard.
85				100	0.0				
90	MW-31: 90				0.0				

Logged by: Justin Vetter and Vance Atkins Hammer Size: N/A Depth to Water (First Encountered): ~8 ft
 Driller: Holt Services, Inc. Date Drilled: 8/30-8/31/16 Depth to Water (Static): 9.81 ft on 9/12/16
 Drilling Method: Sonic Hole Diameter: 6-8 inch Well Tag: BJX 205
 Sampling Method: Continuous Bag Hole Depth: 100 feet
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet

 Concrete  Well Screen
 Bentonite
 Sand

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Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
90					0.0			ML	90'-100': Same as 80'-90'.
95			100	0.0		Note: Recovery fell out of rod—redrilled using sonic auger bit, sample disturbed.			
100	MW-31: 100			0.0					
105									Boring terminated at 100' bgs.
110									
115									
120									

Logged by: Justin Vetter and Vance Atkins Hammer Size: N/A
 Driller: Holt Services, Inc. Date Drilled: 8/30-8/31/16
 Drilling Method: Sonic Hole Diameter: 6-8 inch
 Sampling Method: Continuous Bag Hole Depth: 100 feet
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~8 ft
 Depth to Water (Static): 9.81 ft on 9/12/16
 Well Tag: BJX 205

Concrete
 Bentonite
 Sand

Well Screen

Soils classified visually using the Unified Soils Classification System



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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
5	MW-32: 2.5-4	X		25	0.0	5/12/10			
	MW-32: 5-6.5	X		50	0.0	4/6/8		SP	Med. brown fine to med. grained sand w/ pebbles and gravels to 6.5', med. dense, moist.
	MW-32: 7.5-9	X		60	0.0	4/5/5		SM ML	Med. brown fine sand w/ fine silt @ 6-6.5', no gravels, stiff, moist. Silt w/ clay to 9', med. grey, stiff, moist.
10	MW-32: 10-11.5	X	▲	50	0.0	5/7/12		ML	Silt, no gravel, med. grey, very stiff, moist.
15	MW-32: 15-16.5	X		50	0.0	8/11/12		ML	Silt, no gravel, med. grey, very stiff, wet.
20	MW-32: 20-21.5	X		25	0.0	5/8/10		ML	Same as above, very stiff, wet.
25	MW-32: 25-26.5	X		25	2.3	5/8/8		SM	Grey fine sand, less silt than above, no gravel, med. dense.
30									

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/31/16
 Hole Diameter: 6 inch
 Hole Depth: 56.5 feet
 Well Diameter: 2 inch
 Well Depth: 55 feet
 Screened Interval: 45-55 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 8.94 ft on 9/12/16
 Well Tag: BJJ 045

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
30	MW-32: 30-31.5	X		50	0.0	6/15/20	SP	SP	Fine to med. grained med. grey sand, minor gravel, minor silt, dense, wet.
35	MW-32: 35-36.5	X		80	0.0	15/38/42	SP	SP	Fine to med. grained med. grey sand, no gravel, very dense, wet.
40	MW-32: 40-41.5	X		100	0.0	10/28/ 50 for 5"	SP	SP	Fine sand, no gravel, med. grey, very dense, wet.
45	MW-32: 45-46.5	X		100	0.0	33/ 50 for 5"	SP	SP	Same as above.
50	MW-32: 50			0	-	50 for 2"			No recovery.
55	MW-32: 55	X		100	0.0	47/ 50 for 4"	SP	SP	Fine sand w/ large med. grey gravel/ small cobbles, very dense. Possible top of till.
60									Boring terminated at 56.5' bgs.

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/31/16
 Hole Diameter: 6 inch
 Hole Depth: 56.5 feet
 Well Diameter: 2 inch
 Well Depth: 55 feet
 Screened Interval: 45-55 feet

Depth to Water (First Encountered): ~10 ft
 Depth to Water (Static): 8.94 ft on 9/12/16
 Well Tag: BJJ 045

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
								SP	Red-brown gravelly sand, (fill).
5	MW-33: 2.5-4	X		66	0.0	6/14/8		ML /SP	Yellow-grey silt w/ orange mottling over yellow-brown med. sand w/ gravel. Decreasing gravel w/ depth, med. dense, dry.
	MW-33: 5-6.5	X		100	0.0	4/8/11		ML /SP	Interbedded yellow-red silt and yellow-grey med. sand, trace gravel-moist, med. dense.
	MW-33: 7.5-9	X		100	0.0	7/10/13		SP	Yellow-grey med. sand, med. dense, grading wet.
10	MW-33: 10-11.5	X	▼	100	0.0	6/12/15		SM	Same as above, grading fine sand to fine silty sand @ 11'. Med. dense.
15	MW-33: 15-16.5	X		100	0.0	15/25/34		SM	Yellow-brown silty sand and silt w/ sand interbeds, very dense, wet.
20	MW-33: 20-21.5	X		100	0.0	13/22/33		SM	Same as above.
25	MW-33: 25-26.5	X		100	0.0	18/36/43		SM	Gray to yellow-gray silty sand w/ silt layers, very dense, wet.
30									

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 9/1/16
 Hole Diameter: 6 inch
 Hole Depth: 50 feet
 Well Diameter: 2 inch
 Well Depth: 50 feet
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 10.61 ft on 9/12/16
 Well Tag: BIH 276

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
30	MW-33: 30-31.5	X		100	0.0	19/33/31	SM	SM	Yellow-brown silty sand w/ silt layers, very dense, wet.
35	MW-33: 35-36.5	X		100	0.0	12/38/40	SM	SM	Same as above, fine silty sand.
40	MW-33: 40-41.5	X		100	0.0	19/44/ 50 for 4"	SM	SM	Yellow-brown fine silty sand/ sandy silt grading grey, very dense, wet.
45	MW-33: 45-46.5	X		100	0.0	32/ 50 for 4"	SM	SM	Grey silty sand, very dense, wet (till?). Note: Rig chatter.
50	MW-33: 50	X		100	0.0	50 for 3"	SM	SM	Grey silty sand w/ gravel (till), very dense.
50	Boring terminated at 50' bgs.								
55									
60									

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"
 Soils classified visually using the Unified Soils Classification System

Hammer Size: 140 lbs
 Date Drilled: 9/1/16
 Hole Diameter: 6 inch
 Hole Depth: 50 feet
 Well Diameter: 2 inch
 Well Depth: 50 feet
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 10.61 ft on 9/12/16
 Well Tag: BIH 276

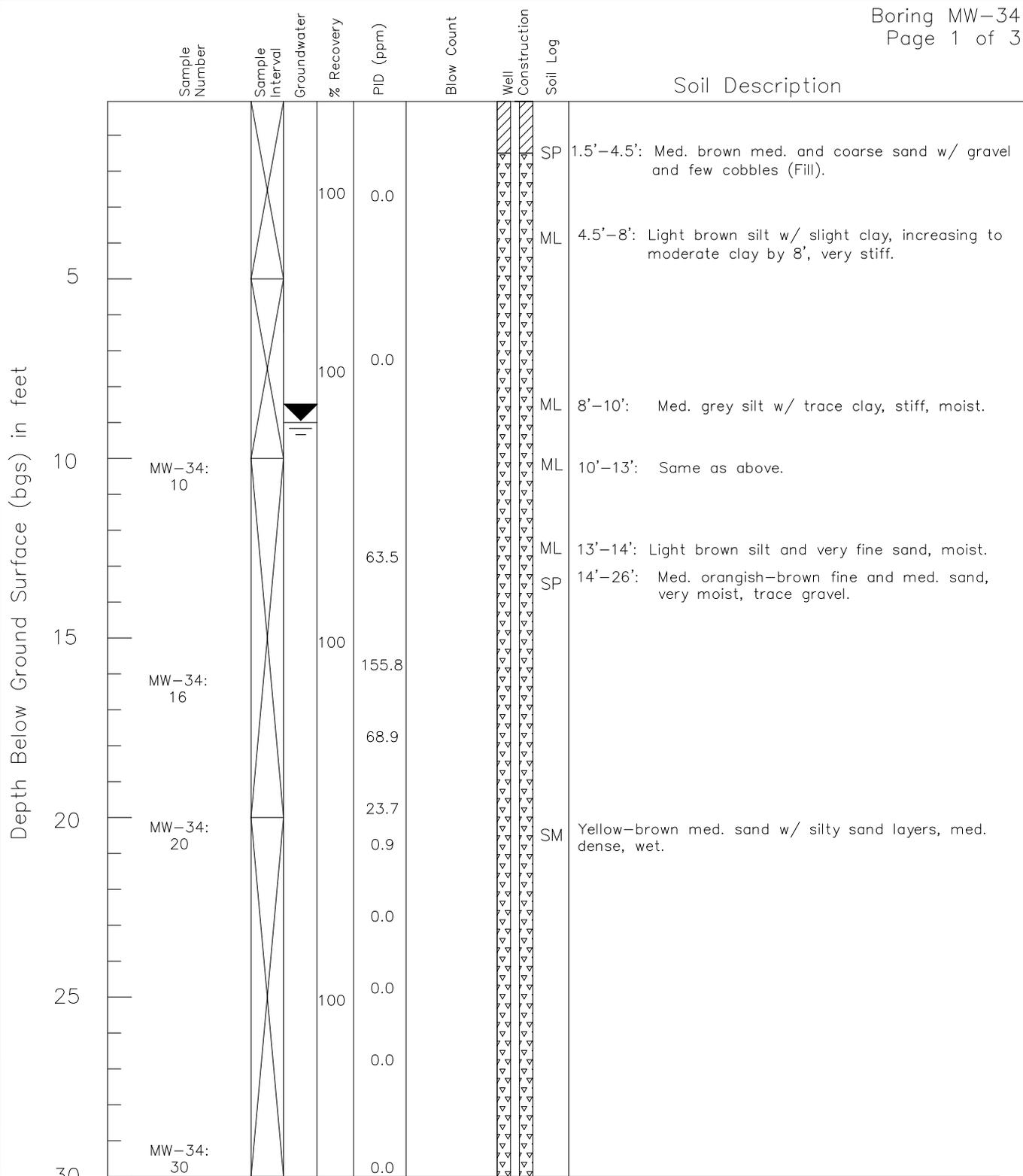
 Concrete
 Bentonite
 Sand

 Well Screen



Remedial Investigation / Feasibility Study
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 Bothell, Washington

Well Construction Log

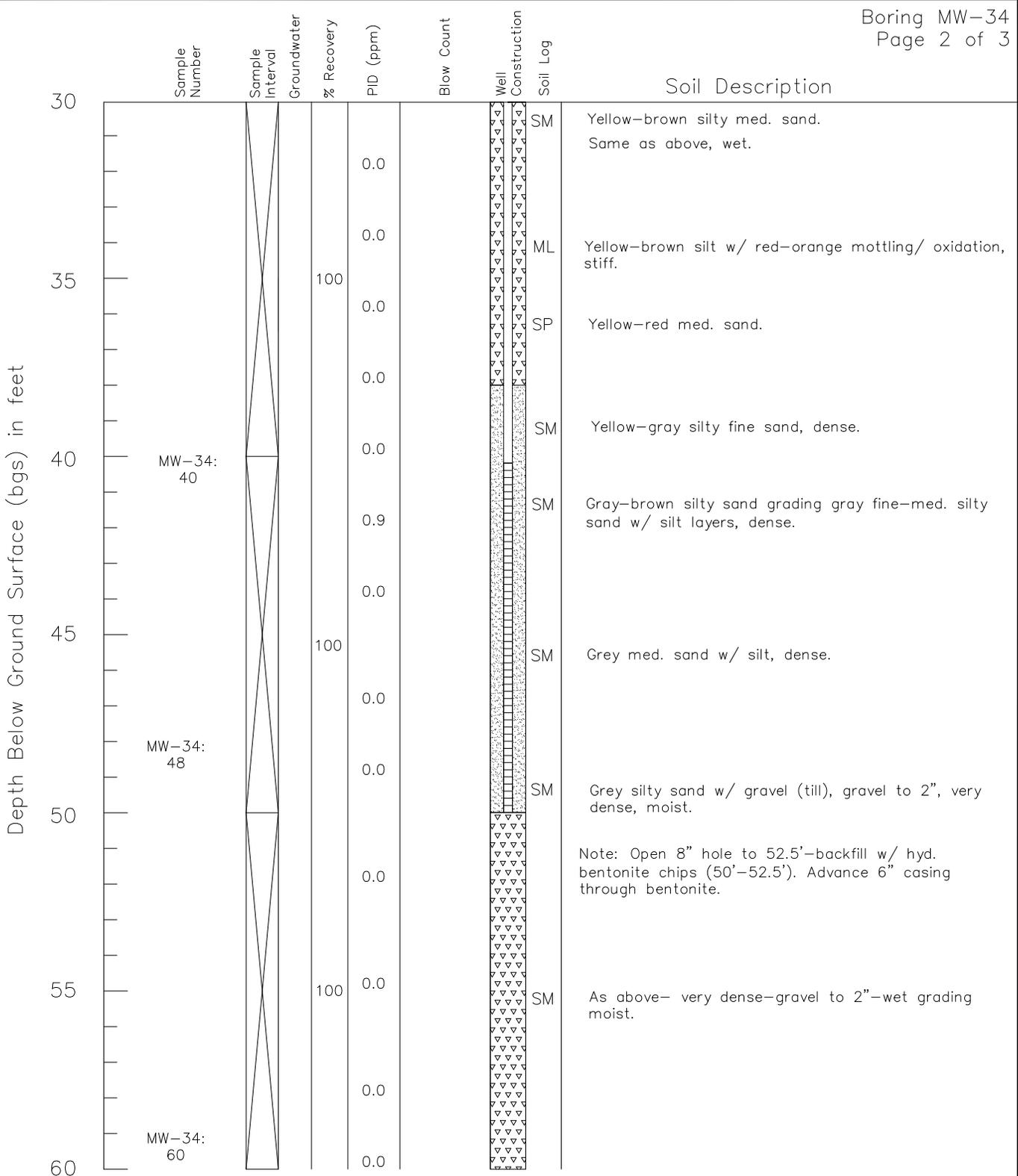


Logged by: Vance Atkins and Justin Vetter Hammer Size: N/A
 Driller: Holt Services, Inc. Date Drilled: 9/2/16
 Drilling Method: Sonic Hole Diameter: 6-8 inch
 Sampling Method: Continuous Bag Hole Depth: 70
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet
 Soils classified visually using the Unified Soils Classification System

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 9.19 ft on 9/12/16
 Well Tag: BJX-206

 Concrete
 Bentonite
 Sand

 Well Screen



Logged by: Vance Atkins and Justin Vetter Hammer Size: N/A
 Driller: Holt Services, Inc. Date Drilled: 9/2/16
 Drilling Method: Sonic Hole Diameter: 6-8 inch
 Sampling Method: Continuous Bag Hole Depth: 70 feet
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet
 Soils classified visually using the Unified Soils Classification System

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 9.19 ft on 9/12/16
 Well Tag: BJX-206

 Concrete
 Bentonite
 Sand

 Well Screen



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	60					0.0		ML	Grey silt and silty sand, occasional sand seams, hard, wet to moist.
65				100	0.0		ML	Gray silt w/ clay, hard, moist.	
70	MW-34: 70				0.0			Boring terminated at 70 feet.	
75									
80									
85									
90									

Logged by: Vance Atkins and Justin Vetter
 Driller: Holt Services, Inc.
 Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 9/2/16
 Hole Diameter: 6-8 inch
 Hole Depth: 70 feet
 Well Diameter: 2 inch
 Well Depth: 50 feet
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 9.19 ft on 9/12/16
 Well Tag: BJX-206

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log		Soil Description
								Soil	Log	
								Asphalt		
				100	0.6			SM		Red brown silty sand and gravel. Trace cobbles, dry to moist (Fill).
5	MW-35: 5				0.0			ML		Yellow brown silt and fine sand, stiff, moist.
					0.0			ML		Same as above w/ occasional red-brown mottling, fine sand seams, moist, grading wet.
10	MW-35: 10				0.0			ML		Same as above.
					9.8			SP		With yellow-red med. sand layers, mottled/oxidized, moist to wet-trace solvent odor.
15	MW-35: 16			100	97			ML		Gray-brown silt, stiff, moist, no odor.
					31					
20	MW-35: 20				21					
					13.3					
					4.9					
25				100	1.1			ML		Gray-brown and yellow-brown silt w/ fine sand, occasional red-brown seams, wet. Grading yellow-brown silty med. sand w/ sand seams.
					0.0					
30	MW-35: 30				0.3					

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 9/2&9/6/16
 Hole Diameter: 6-8 inch
 Hole Depth: 77
 Well Diameter: 2 inch
 Well Depth: 58 feet
 Screened Interval: 48-58 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 8.19 on 9/12/16
 Well Tag: BJX-207

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
60					0.9			ML	Gray silt w/ sand and gravel, hard, wet grading moist.
					3.5			ML	Increased density—grading moist, gravel to 3/4", occasional layers.
65	MW-35: 65			100	1.0			ML	Silt w/ sand and gravel, very hard.
					0.0			ML	Same as above—dry.
	MW-35: 68								Note: Drive to 68'—hard.
70								ML	Same as above—dry.
				100					
75	MW-35: 77				0.0				
80									Boring terminated at 77 feet.
85									
90									

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 9/2&9/6/16
 Hole Diameter: 6-8 inch
 Hole Depth: 77 feet
 Well Diameter: 2 inch
 Well Depth: 58 feet
 Screened Interval: 48-58 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 8.19 ft on 9/12/16
 Well Tag: BJX-207

Concrete
 Bentonite
 Sand

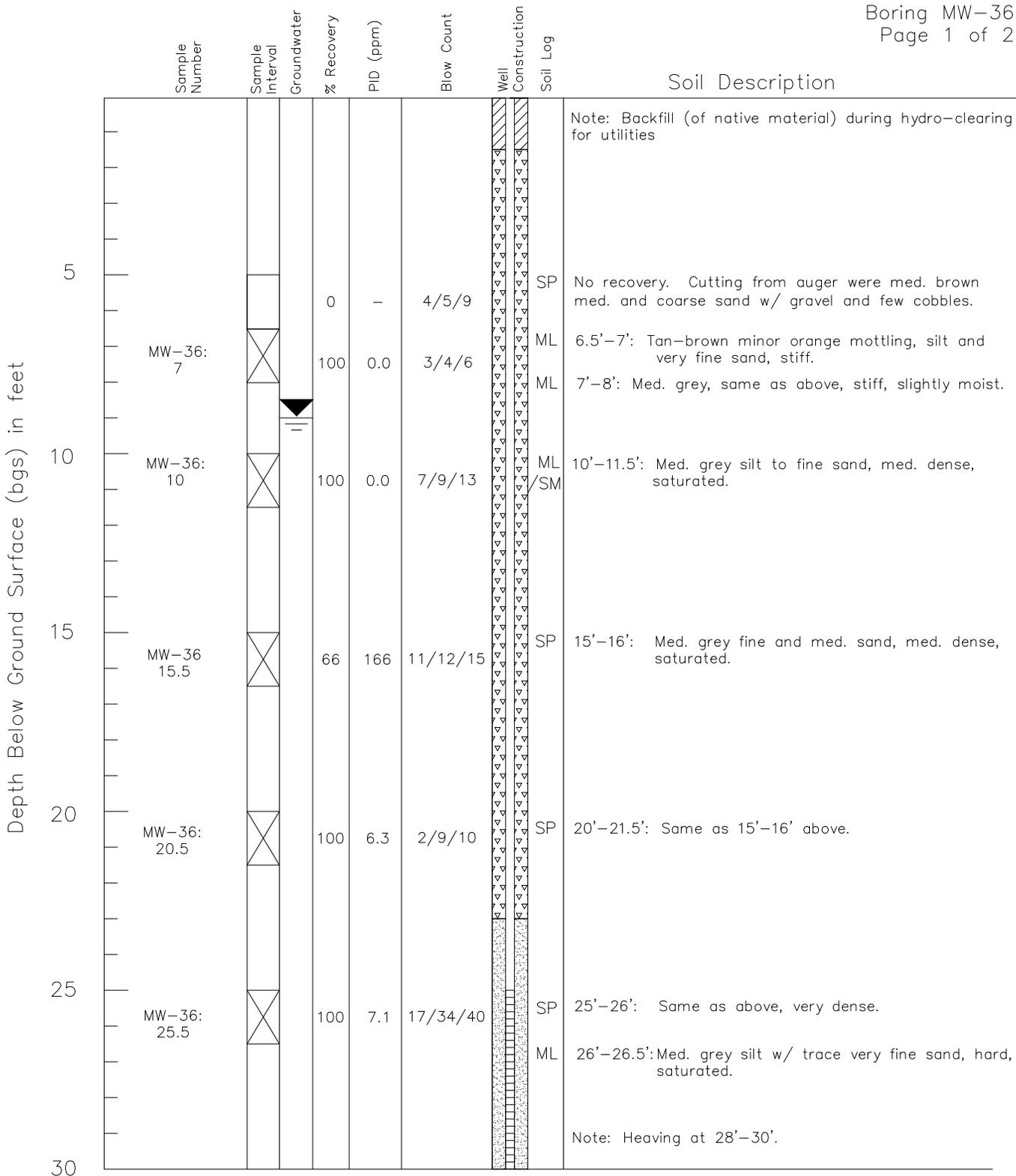
Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Justin Vetter
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 9/8/16
 Hole Diameter: 6 inches
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 8.68 ft on 9/12/16
 Well Tag: BJX 263

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	MW-36: 31	X		100	0.0	11/30/50		SM
35	MW-36: 35.5	X		100	3.9	25/17/20		ML	35'-36.5': Med. grey med. sand w/ trace fine sand, hard, saturated.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Justin Vetter
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 9/8/16
 Hole Diameter: 6 inch
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 8.68 ft on 9/12/16
 Well Tag: BJX 263

 Concrete
 Bentonite
 Sand

 Well Screen

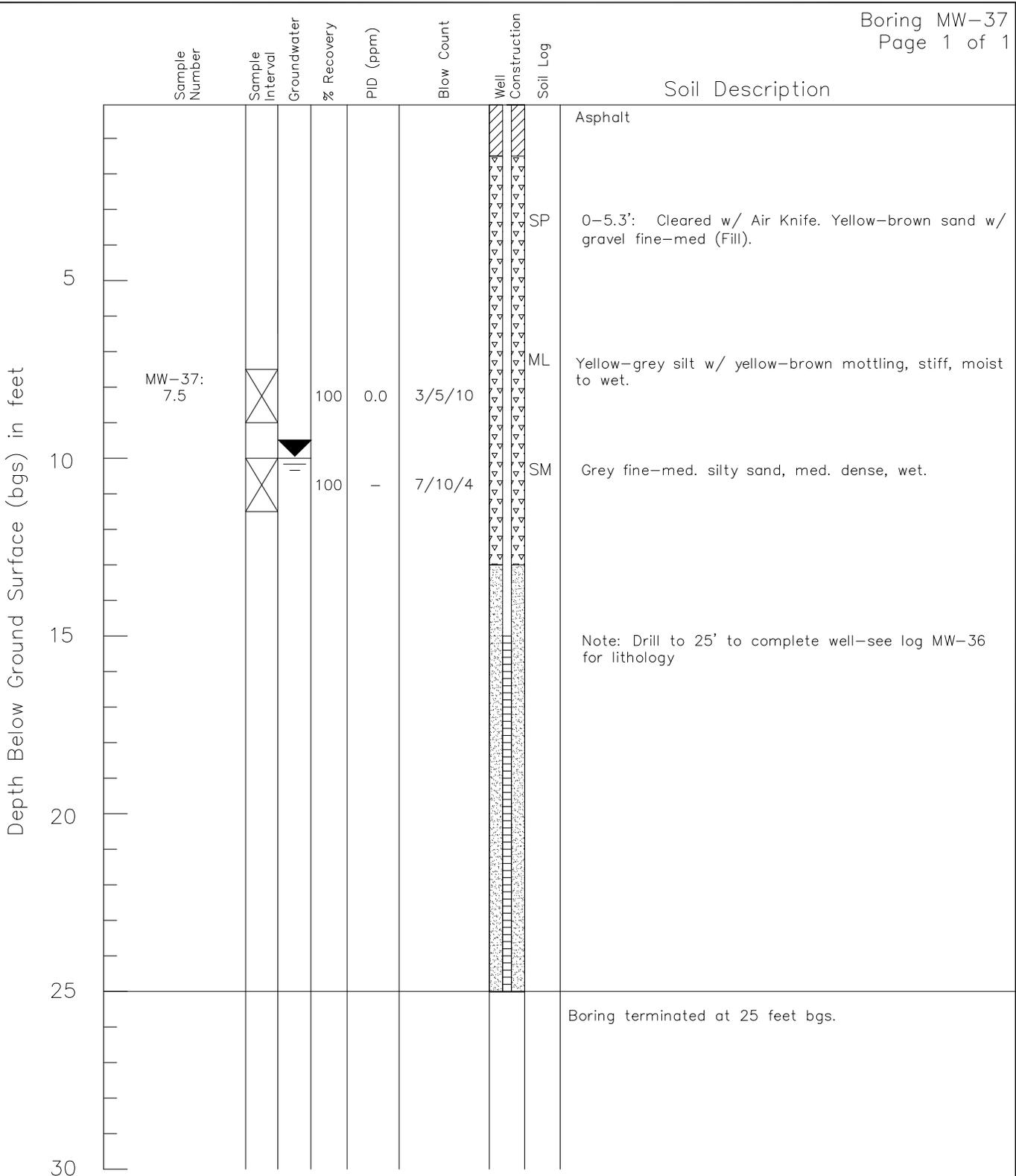
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18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

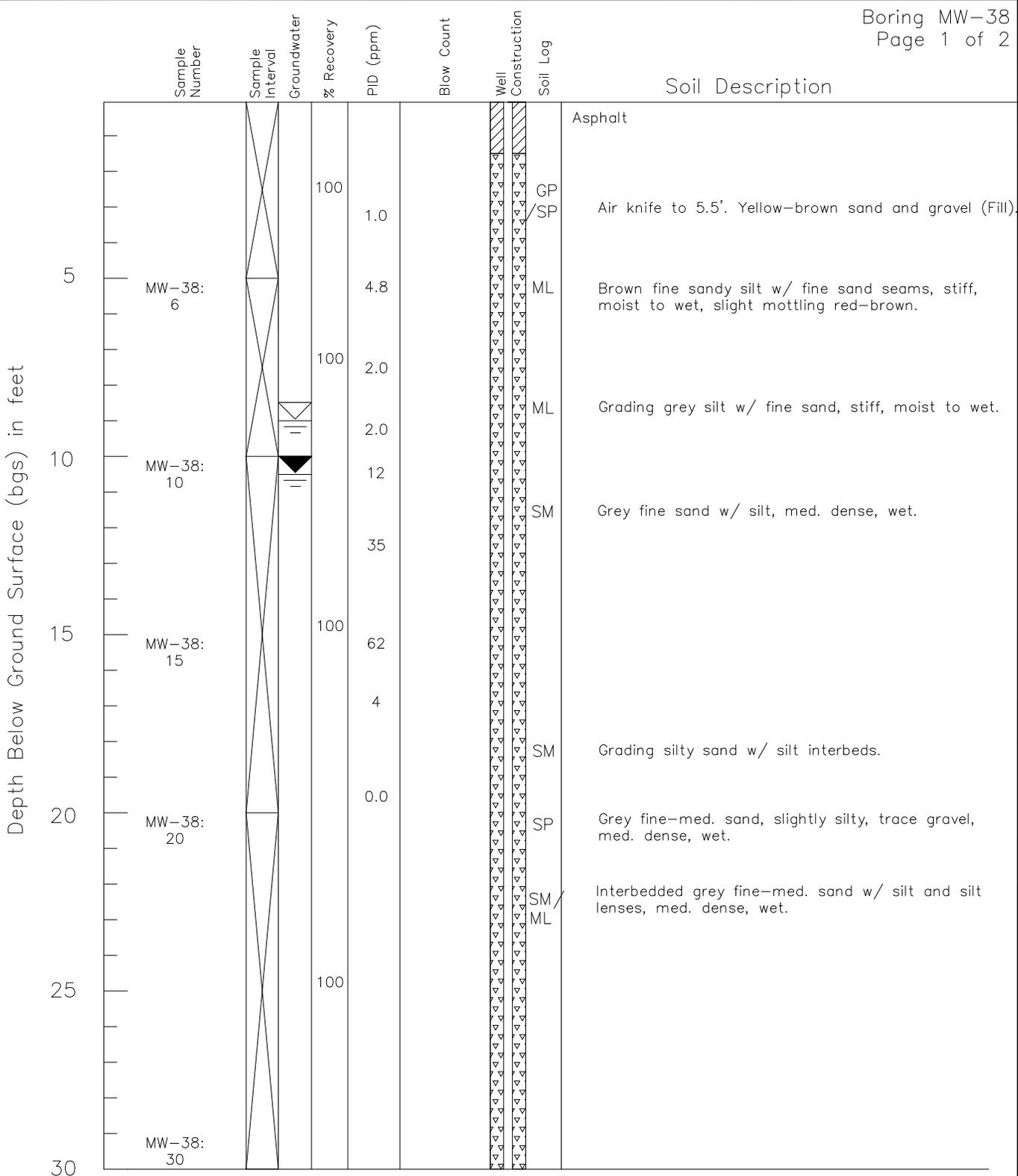
Hammer Size: 140 lbs
 Date Drilled: 9/9/16
 Hole Diameter: 6 inch
 Hole Depth: 25 feet
 Well Diameter: 2 inch
 Well Depth: 25 feet
 Screened Interval: 15-25 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 9.81 ft on 9/12/16
 Well Tag: BJJ 264

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 9/12/16
 Hole Diameter: 6 inch
 Hole Depth: 55 feet
 Well Diameter: 2 inch
 Well Depth: 50
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 10.44 on 9/12/16
 Well Tag: BJX 264

 Concrete
 Bentonite
 Sand

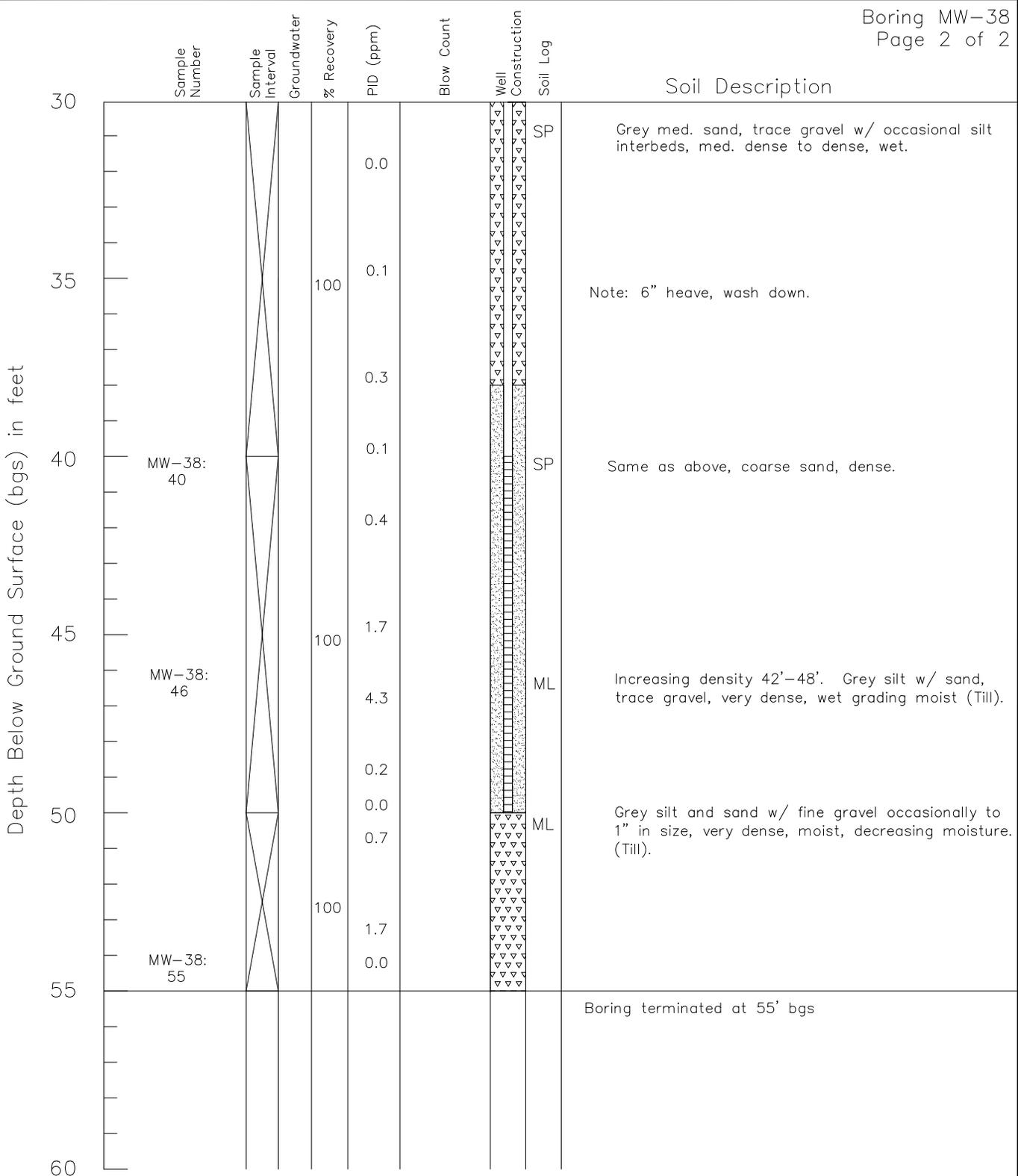
 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Recovery
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 9/12/16
 Hole Diameter: 6 inch
 Hole Depth: 55 feet
 Well Diameter: 2 inch
 Well Depth: 50 feet
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 10.44 ft on 9/12/16
 Well Tag: BJX 264

 Concrete
 Bentonite
 Sand

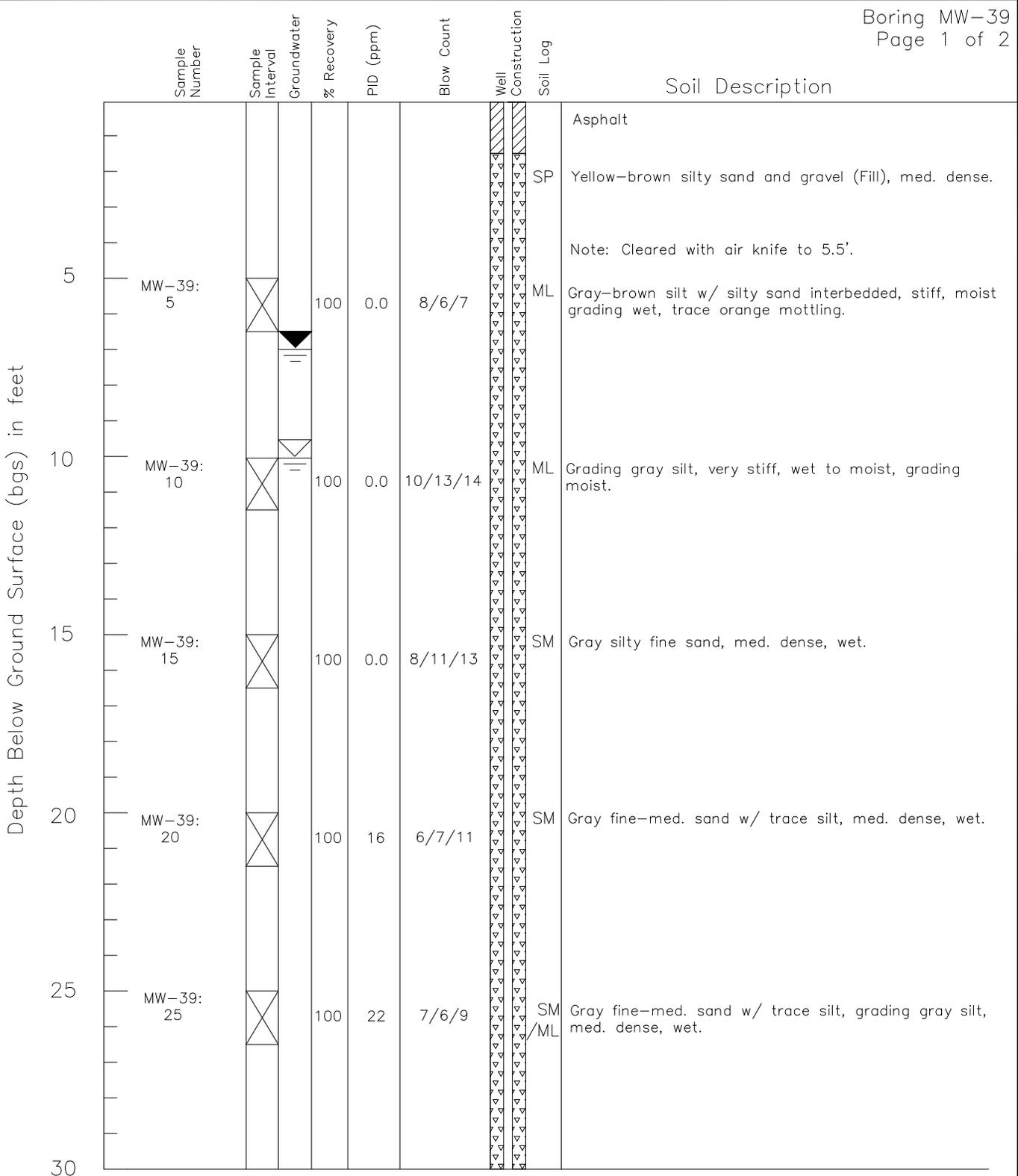
 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 10/15/16
 Hole Diameter: 8 inch
 Hole Depth: 51.5 feet
 Well Diameter: 2 inch
 Well Depth: 50 feet
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 7.00 on 10/25/16
 Well Tag: BKY 112

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
30	MW-39: 30			100	7.5	9/5/21		SP	Gray med. sand w/ trace coarse sand and trace gravel, med. dense to dense. Note: Heave.
35	MW-39: 35			100	0.0	14/15/28		SP	Grey med. sand w/ coarse sand and fine gravel, very dense, wet. Broken gravel at shoe. Note: Clear heave from auger.
40	MW-39: 40			100	0.0	7/27/35		SP	Grey med. sand, very dense, wet. Note: Rig chatter 42'-44'. Note: 1' heave can't clear.
45	MW-39: 45			75	0.3	18/27/35		SP	Fine-med. gray sand (likely heave), trace fine gravel, very dense. Note: Heave.
50	MW-39: 50			100	0.0	8/11/32		SM	Gray silty fine sand w/ fine gravel at 51' (top of till), very dense.
55									Boring terminated at 51.5' bgs.
60									

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 10/15/16
 Hole Diameter: 8 inch
 Hole Depth: 51.5 feet
 Well Diameter: 2 inch
 Well Depth: 50 feet
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 7.00 on 10/25/16
 Well Tag: BKY 112

 Concrete
 Bentonite
 Sand

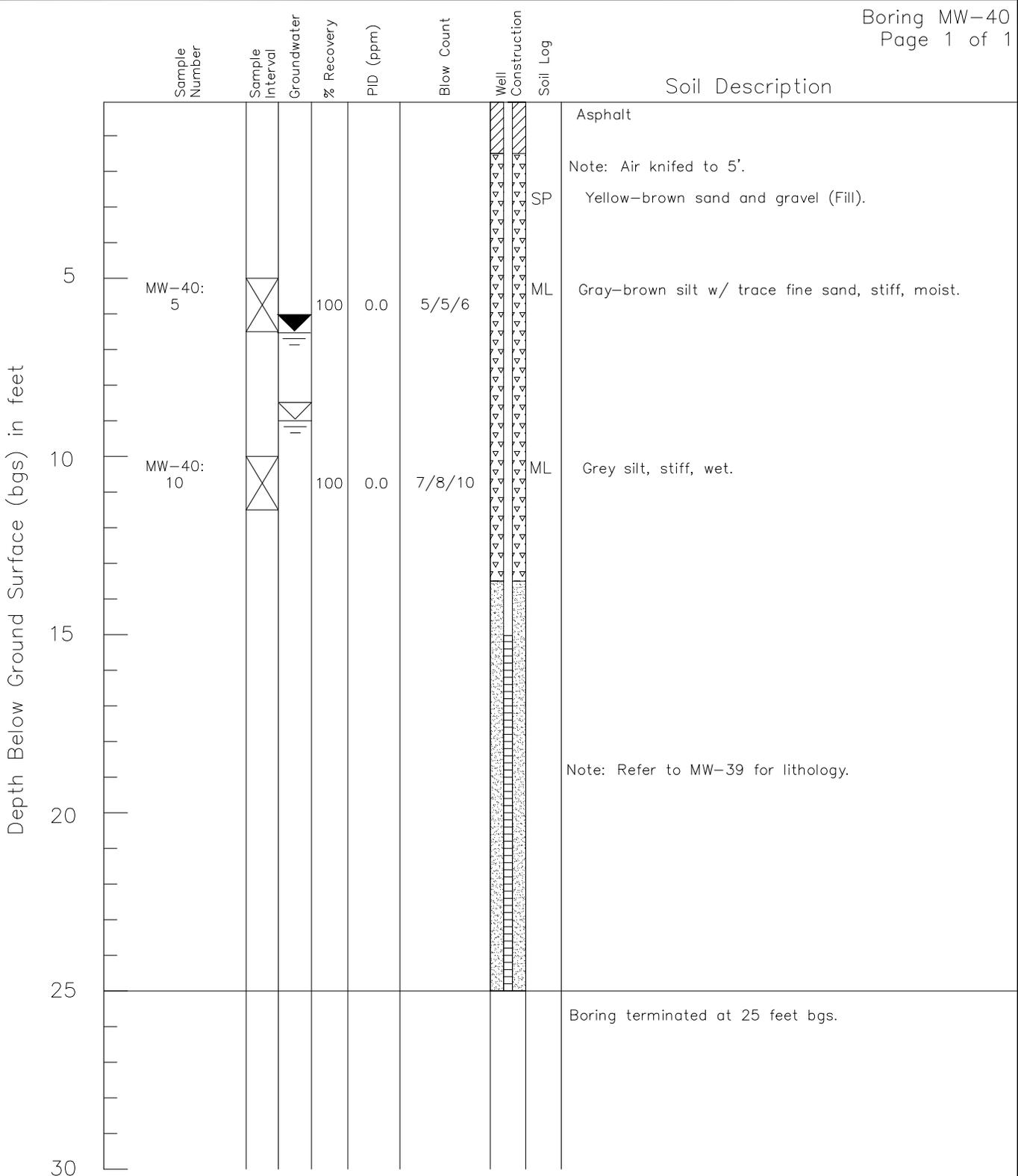
 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 10/20/16
 Hole Diameter: 8 inch
 Hole Depth: 25 feet
 Well Diameter: 2 inch
 Well Depth: 25 feet
 Screened Interval: 15-25 feet

Depth to Water (First Encountered): ~9 feet
 Depth to Water (Static): 6.89 ft on 10/25/16
 Well Tag: BKY 113

 Concrete
 Bentonite
 Sand
 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
		MW-41: 1.5			50		N/A		SP
								SP	1'-2': Dk. brown fine-coarse sand w/ gravel, med. dense, sl. moist (Fill).
								SP	2'-2.5': Orange gravel & fine-coarse sand, loost, sl. moist (Fill).
5	MW-41: 5.5							SP	5'-6': Med. brown w/ orange mottling fine-coarse sand w/ gravel, sl. moist (Fill).
				80				SM	6'-9': Med brown & gray fine sand w/ silt, dense, sat.
10								SP	10'-10.5': Olive gray gravelly fine-coarse sand, loose, sat.
				100				ML	10.5'-15': Olive gray fine sand & silt, dense, sat.
15	Boring terminated at 15 feet bgs.								
20									
25									
30									

Logged by: Jeffrey Jensen Driller: Cascade Drilling Drilling Method: Direct-Push Sampling Method: Acetate Liner Casing Type: 3/4" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: N/A Date Drilled: 12/29/16 Hole Diameter: 2 inch Hole Depth: 15 feet Well Diameter: 3/4 inch Well Depth: 15 feet Screened Interval: 5-15 feet	Depth to Water (First Encountered): ~6 feet Depth to Water (Static): 8.31 ft on 1/3/17 Well Tag: BKY 424
Soils classified visually using the Unified Soils Classification System	[Concrete Symbol] Concrete [Bentonite Symbol] Bentonite [Sand Symbol] Sand	[Well Screen Symbol] Well Screen



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
HZ-MW-21: 5-5.5			33	0.0	6/15/20	SM		5'-5.5': Brown silt and fine sand w/ med. sand & trace gravel, dense, dry.
HZ-MW-21: 7-7.5			66	0.0	19/16/19	SM SM		6.5'-7': Same as above. 7'-7.5': Brown fine sand w/ silt, dense, slightly moist.
HZ-MW-21: 10-11			66	0.0	5/7/9	SM		10'-11': Same as above, med. dense, saturated.
HZ-MW-21: 15-16			66	0.0	7/9/9	SM		15'-16': Med. gray silt and fine sand, med. dense, saturated, red mottling @ 16 ft.
HZ-MW-21: 20.5-21			66	0.0	7/7/9	SM ML		20'-20.5': Med. gray fine sand w/ silt, med. dense, saturated. 20.5'-21': Med. gray silt w/ trace clay, stiff, saturated.
HZ-MW-21: 25.5-26			66	0.0	8/10/12	ML		25'-26': Same as above.
Boring terminated at 26.5 feet bgs.								

Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/22/16
 Hole Diameter: 6 inch
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 16 feet
 Screened Interval: 6-16 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 7.14 ft on 9/12/16
 Well Tag: BJX 031

 Concrete
 Bentonite
 Sand

 Well Screen

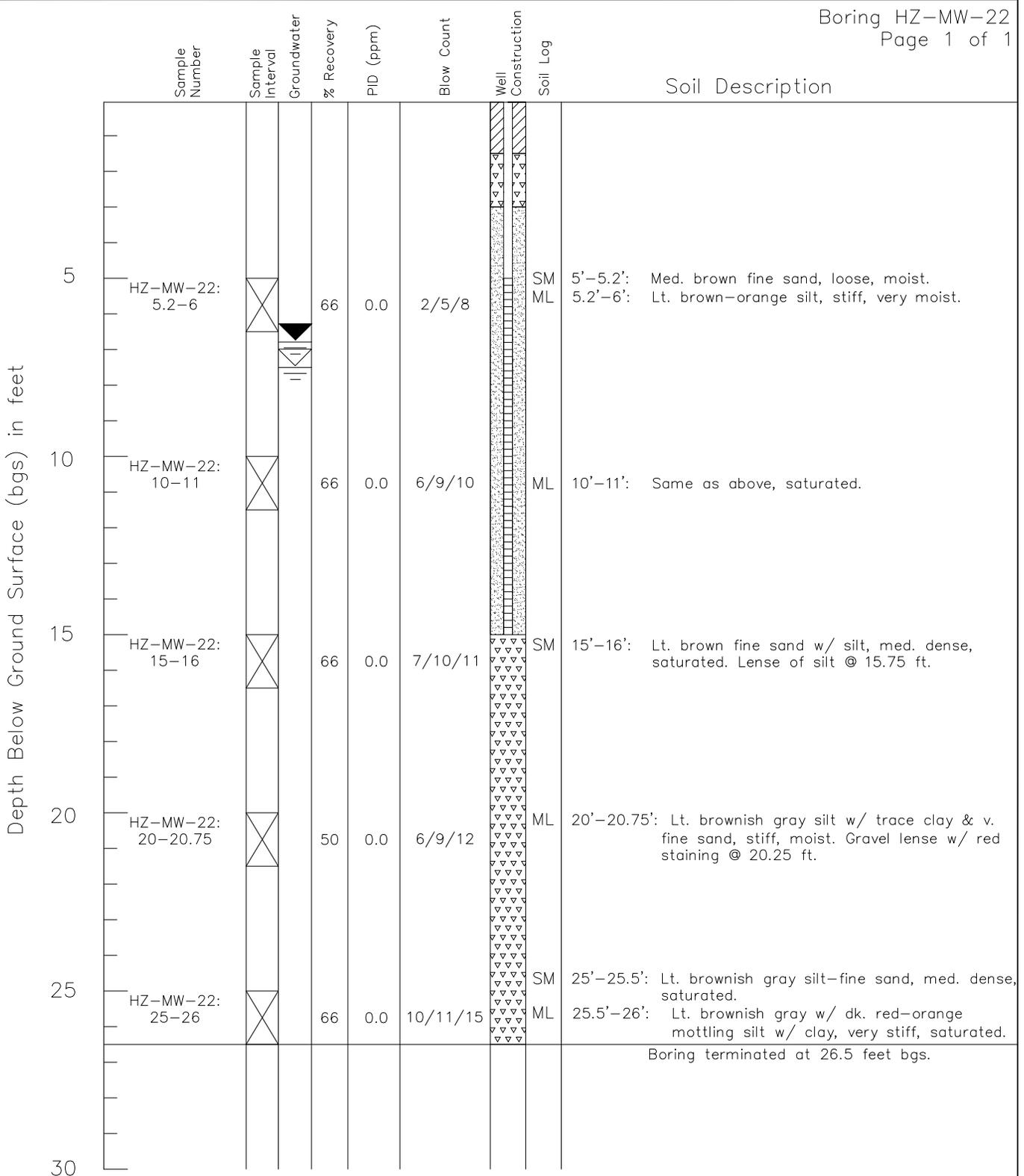
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Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

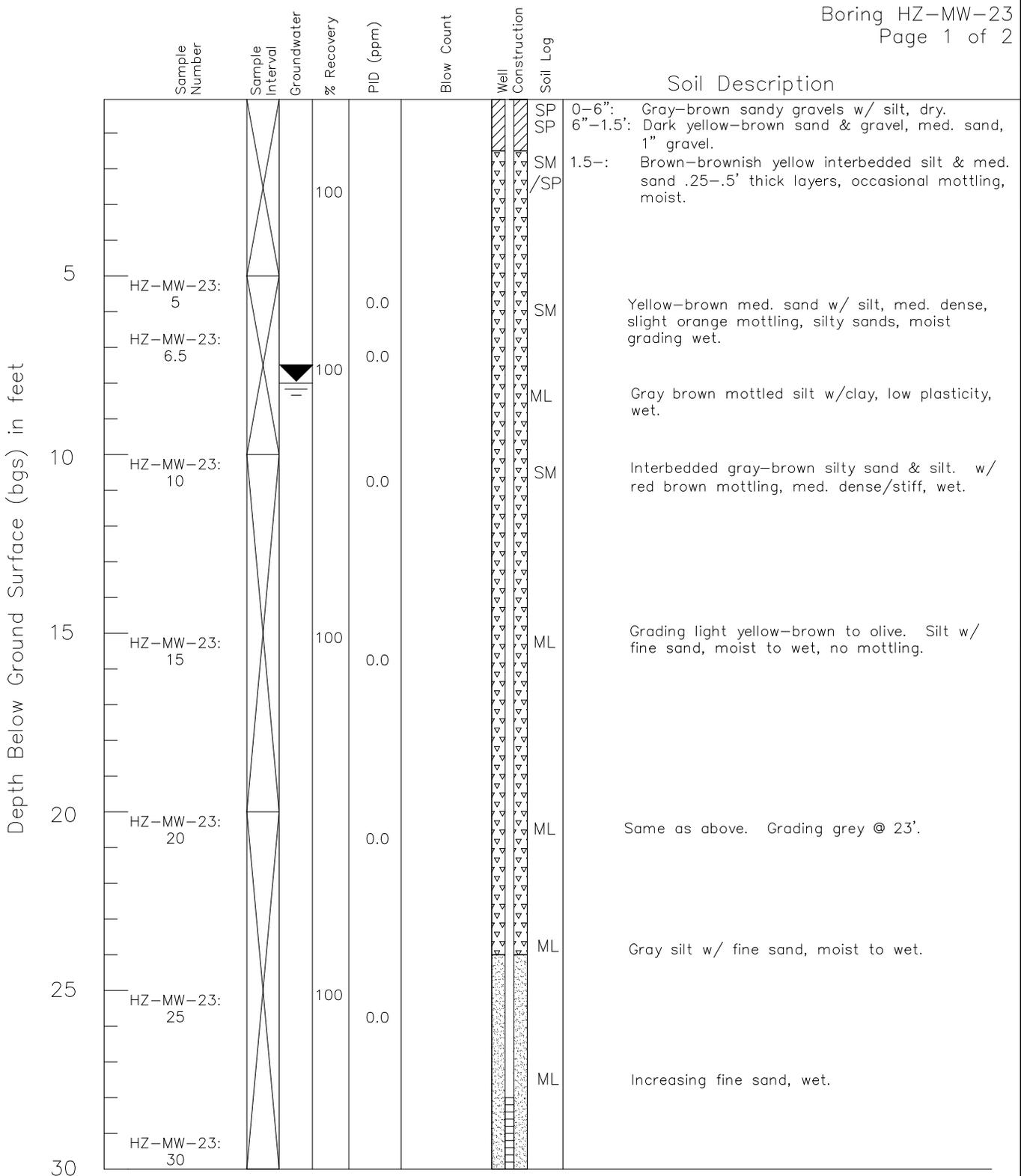
Hammer Size: 140 lbs
 Date Drilled: 8/22/16
 Hole Diameter: 6 inch
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 15 feet
 Screened Interval: 5-15 feet

Depth to Water (First Encountered): ~7.5 feet
 Depth to Water (Static): 6.77 ft on 9/12/16
 Well Tag: BJX 032

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 8/23/16
 Hole Diameter: 6 inch
 Hole Depth: 40 feet
 Well Diameter: 2 inch
 Well Depth: 38 feet
 Screened Interval: 28-38 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 8.21 ft on 9/12/16
 Well Tag: BJX 201

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30								SM
35	HZ-MW-23: 35			100	0.0			SP	Grading fine to med. gray sand, med. dense to dense, wet.
40	HZ-MW-23: 38				0.0			SM	Red-brown mottled, silty sand, trace fine gravel, moist to wet.
40	Boring terminated at 40 feet bgs.								
45									
50									
55									
60									

Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Sonic Sampling Method: Continuous Bag Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: N/A Date Drilled: 8/23/16 Hole Diameter: 6 inch Hole Depth: 40 feet Well Diameter: 2 inch Well Depth: 38 feet Screened Interval: 28-38 feet	Depth to Water (First Encountered): ~8 feet Depth to Water (Static): 8.21 ft on 9/12/16 Well Tag: BJX 201
Soils classified visually using the Unified Soils Classification System	Concrete Bentonite Sand	Well Screen



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	5	HZ-MW-24: 5.5-6			66	0.0	4/5/6	SM	5'-6': Med. brown silt-fine sand, med. dense, sl. moist.
				10	0.0	8/7/9	SM	6.5'-6.7': Same as above.	
10	HZ-MW-24: 10-10.5			33	0.0	17/10/11	SP	10'-10.5': Brown-gray fine-med. sand w/ gravel, med. dense, saturated.	
15	HZ-MW-24: 15.5-16			66	0.0	7/8/13	SP SM	15'-15.2': Same as above. 15.2'-16': Brown-gray silt and fine sand, med. dense, saturated. Orange mottling @ 16 ft.	
20	HZ-MW-24: 20.5-21			66	0.0	19/25/28	SP SM	20'-20.3': Med. gray gravelly fine sand w/ silt, very dense, saturated. 20.3'-21': Med. gray fine sand w/ silt, dense, saturated.	
25	HZ-MW-24: 25.5-26			66	0.0	4/4/6	SM ML	25'-25.3': Med. brown silt-fine sand, loose, saturated. Orange-brown mottling @ 25 ft. 25.3'-26': Med. brown silt w/ trace clay, stiff, saturated.	
30									

Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/23/16
 Hole Diameter: 6 inch
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 7.20 ft on 9/12/16
 Well Tag: BJX 034

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	HZ-MW-24: 30-31	X		100	0.0	11/14/17	SP	SM
35	HZ-MW-24: 35-35.75	X		100	0.0	7/7/11	SM	SM	35'-35.75': Dk. grey-brown fine sand w/ silt, med. dense, saturated. 35.75'-36.5': Dk. grey-brown silty fine sand, med. dense, saturated.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Jeffrey Jensen Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 8/23/16 Hole Diameter: 6 inch Hole Depth: 36.5 feet Well Diameter: 2 inch Well Depth: 35 feet Screened Interval: 25-35 feet	Depth to Water (First Encountered): ~8 feet Depth to Water (Static): 7.20 ft on 9/12/16 Well Tag: BJX 034
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Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
								GP	Grey-brown sandy gravel (Fill), dry.
				100				GP	Yellow-brown sandy gravel (Fill), moist.
5	HZ-MW-25: 5				0.0			SP	Brown med. sand, moist to wet.
	HZ-MW-25: 7			100	0.0			ML	Yellow-Brown silt w/ fine sand seams, stiff, grading wet.
10	HZ-MW-25: 10				0.1			ML	Light brown silt w/ clay, low plasticity, wet to moist.
								ML	Light brown silt w/ fine sand, wet, stiff.
15	HZ-MW-25: 15			100	0.0			ML	Light brown silt w/ clay, wet, stiff.
								ML	As above, grading gray.
								ML	Gray silt w/ fine sand lenses, stiff, wet.
20	HZ-MW-25: 20				0.0			ML	Gray silt, stiff, wet.
								ML	Same as above, w/ clay, stiff to very stiff, moist.
25	HZ-MW-25: 25			100	0.0			ML	Grading light brown, silty. Occasional fine sand seams, moist to wet, stiff.
								ML	As above, increasing fine sands.
30	HZ-MW-25: 30				0.0			ML	

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 8/23-8/24/16
 Hole Diameter: 6 inch
 Hole Depth: 55 feet
 Well Diameter: 2 inch
 Well Depth: 54'4"
 Screened Interval: 44'4"-54'4"

Depth to Water (First Encountered): ~6.5 feet
 Depth to Water (Static): 8.17 ft on 9/12/16
 Well Tag: BJX 202

 Concrete
 Bentonite
 Sand

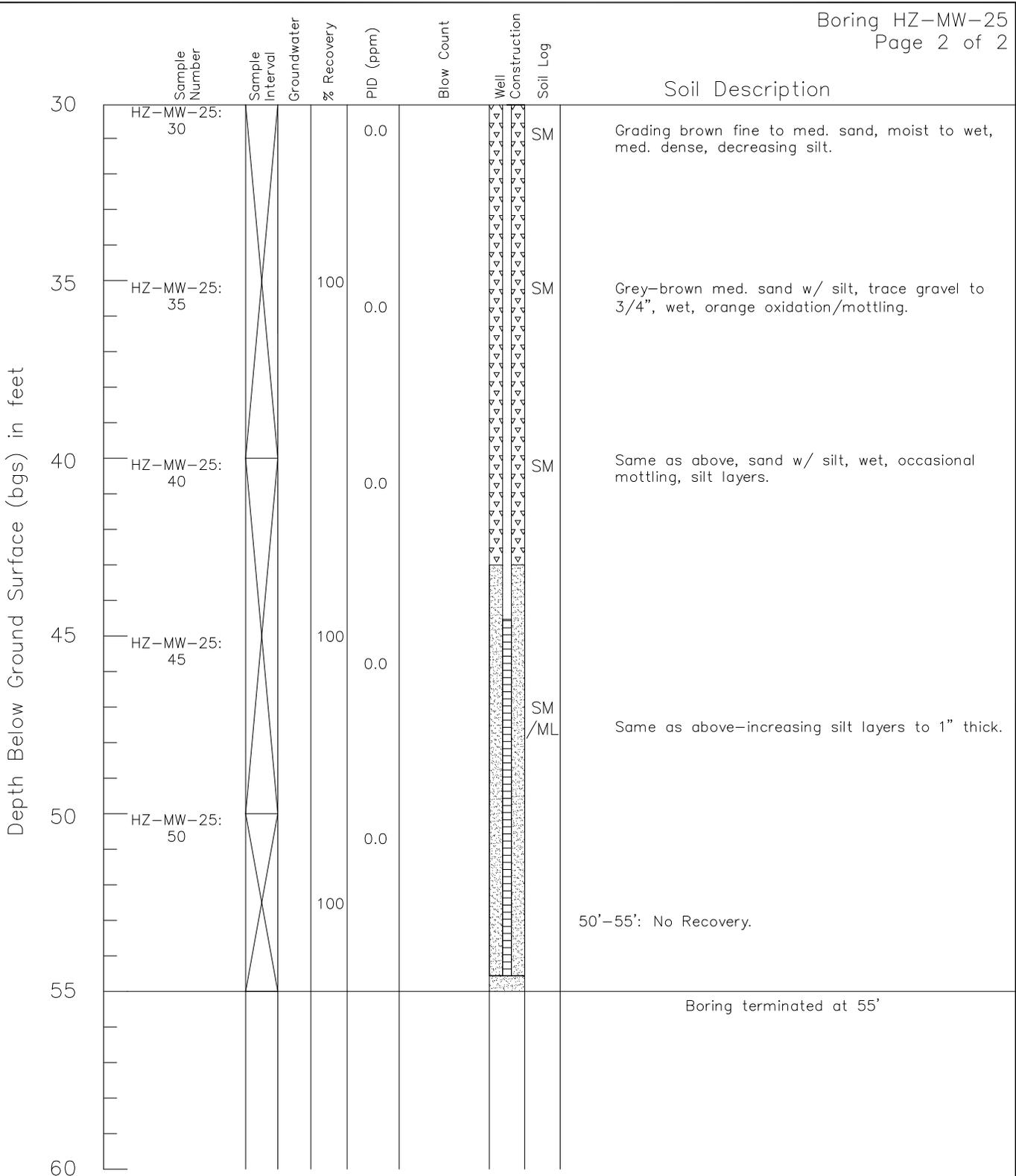
 Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 8/23-8/24/16
 Hole Diameter: 6 inch
 Hole Depth: 55 feet
 Well Diameter: 2 inch
 Well Depth: 54'4" feet
 Screened Interval: 44'4"-54'4"

Depth to Water (First Encountered): ~6.5 feet
 Depth to Water (Static): 8.17 ft on 9/12/16
 Well Tag: BJX 202

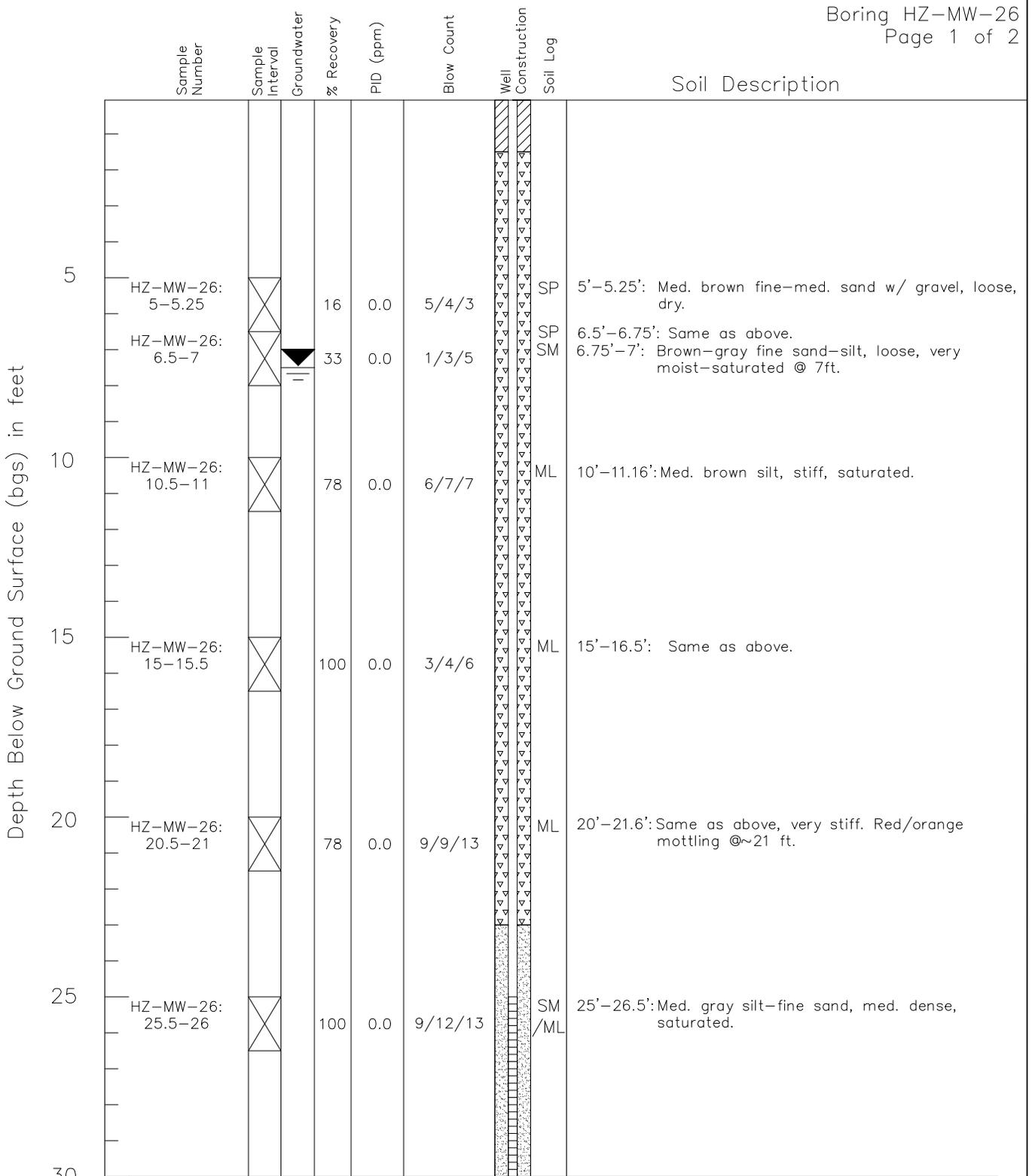
Concrete
 Bentonite
 Sand

Well Screen



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/23/16
 Hole Diameter: 6 inches
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~7ft
 Depth to Water (Static): 7.55 ft on 9/12/16
 Well Tag: BJX 035

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	HZ-MW-26: 30.5-31	X		100	0.0	13/17/21	SM /ML	
35	HZ-MW-26: 35-35.5	X		100	0.1	8/10/18	SP		35'-36.5': Brown & gray fine-med. sand w/ fine gravel, med. dense, saturated. Burnt orange/brown mottling throughout.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Jeffrey Jensen Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010" Soils classified visually using the Unified Soils Classification System	Hammer Size: 140 lbs Date Drilled: 8/23/16 Hole Diameter: 6 inch Hole Depth: 36.5 feet Well Diameter: 2 inch Well Depth: 35 feet Screened Interval: 25-35 feet	Depth to Water (First Encountered): ~7ft Depth to Water (Static): 8.17 ft on 9/12/16 Well Tag: BJX 035  Concrete  Bentonite  Sand  Well Screen
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Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
								GM	1'-2.5': Brown gravel w/ sand & silt.
				100	0.0			SM	2.5'-5': Brown fine sand w/ silt & med.-coarse gravels, loose, moist. Mottled at 4'-5'. No gravels below 3.5'.
5	HZ-MW-27: 5				0.0			ML	5'-6.25': Med. brown silt w/ fine sand. Med. dense, moist, no odor.
					0.0			ML	6.25'-6.5': Same as above, w/ orange mottling.
				100	0.0			ML	6.5'-7.5': Same as 5'-6.25' above, saturated.
					0.0			ML	7.5'-10': Interbedded/ layered zones of gray-brown silty fine sand & silt, zones 6-8" thick, saturated, med. dense, slight orange mottling, no odor.
10	HZ-MW-27: 10				0.0			ML	10'-15': Gray-brown silt, med. dense, saturated, no odor.
					0.0				
				100	0.0			ML	15'-18.5': Same as above. Grading to fine sand, silty @ 17'-18.5'.
	HZ-MW-27: 15				0.0				
					0.0			SM	18.5'-19': Gray-brown, silty fine sand w/ 1" lenses of clayey silt, med. dense, saturated, no odor.
20	HZ-MW-27: 20				0.0			ML	19'-20': Gray brown silt, med. dense, saturated, no odor.
					0.0			ML	20'-22.5': Same as above, w/ trace clay 21'-22.5'. Med. stiff 21'-22.5'.
					0.0			ML	22.5'-25': Same as above, w/ few 1" lenses of orange-brown mottling.
25	HZ-MW-27: 25				0.0			SM	25'-29': Silty fine sand w/ 1-2" lenses of clayey silt, med. dense, saturated, trace brown-orange mottling.
				100	0.0				
30	HZ-MW-27: 30				2.9 @ 30'			SM	29'-30': Same as above, w/ strong orange-brown mottling.

Logged by: Nate Evenson
 Driller: Holt Services, Inc.
 Drilling Method: Sonic
 Sampling Method: Continuous Bag
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 8/24/16
 Hole Diameter: 6 inch
 Hole Depth: 55 feet
 Well Diameter: 2 inch
 Well Depth: 55 feet
 Screened Interval: 45-55 feet

Depth to Water (First Encountered): ~6 feet
 Depth to Water (Static): 8.0 ft on 9/12/16
 Well Tag: BJX 203

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



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18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
30								ML	30'-31.5': Gray-brown silt, med. dense, saturated.
	HZ-MW-27: 32				4.8			SM	31.5'-32.5': Gray brown fine sand, silty, med. dense, saturated, .
					0.6			SM	32.5'-35': Gray-brown fine sand w/ trace silt, med. dense, saturated.
					3.6				
35				100	18.2			SM	35'-40': Gray brown silty fine sand, med. dense, saturated.
	HZ-MW-27: 35				3.0				
					0.4				
					1.1				
40					0.5			SM	Note: At ~40 ft, driller noted that heaving sands were present, pushing up 8 ft to a depth of 32'. 40'-46.5': Gray-brown fine sand w/ trace silt, med. dense to loose, saturated. Trace orange-brown mottling.
	HZ-MW-27: 40				0.0				
					0.0				
45				100	0.0			SM	46.5'-47': Fine-med. sand w/ trace silt. Orange-brown mottling. Med. dense, saturated.
	HZ-MW-27: 45				0.0			SP	47'-47.5': Brown-gray fine-med. sand w/ trace silt and small gravels, med. dense, saturated.
					0.0			SM	47.5'-48': Gray-brown silty fine sand, med. dense, saturated. Orange-brown mottling.
					0.0			ML	48'-50': Gray brown silt, very stiff, very moist.
50					0.0			ML	50'-51': Brown-grey silt w/ small gravels (subrounded), saturated to very moist, loose. Orange-brown mottling.
	HZ-MW-27: 50			100	0.0			ML	51'-52.5': Gray silt w/ trace small gravels, very stiff, very moist to saturated.
					0.0			ML	52.5'-55': Same as above.
55					0.0				Note: Drillers reported 10" of silt in well.
	HZ-MW-27: 55								Boring terminated at 55' bgs.

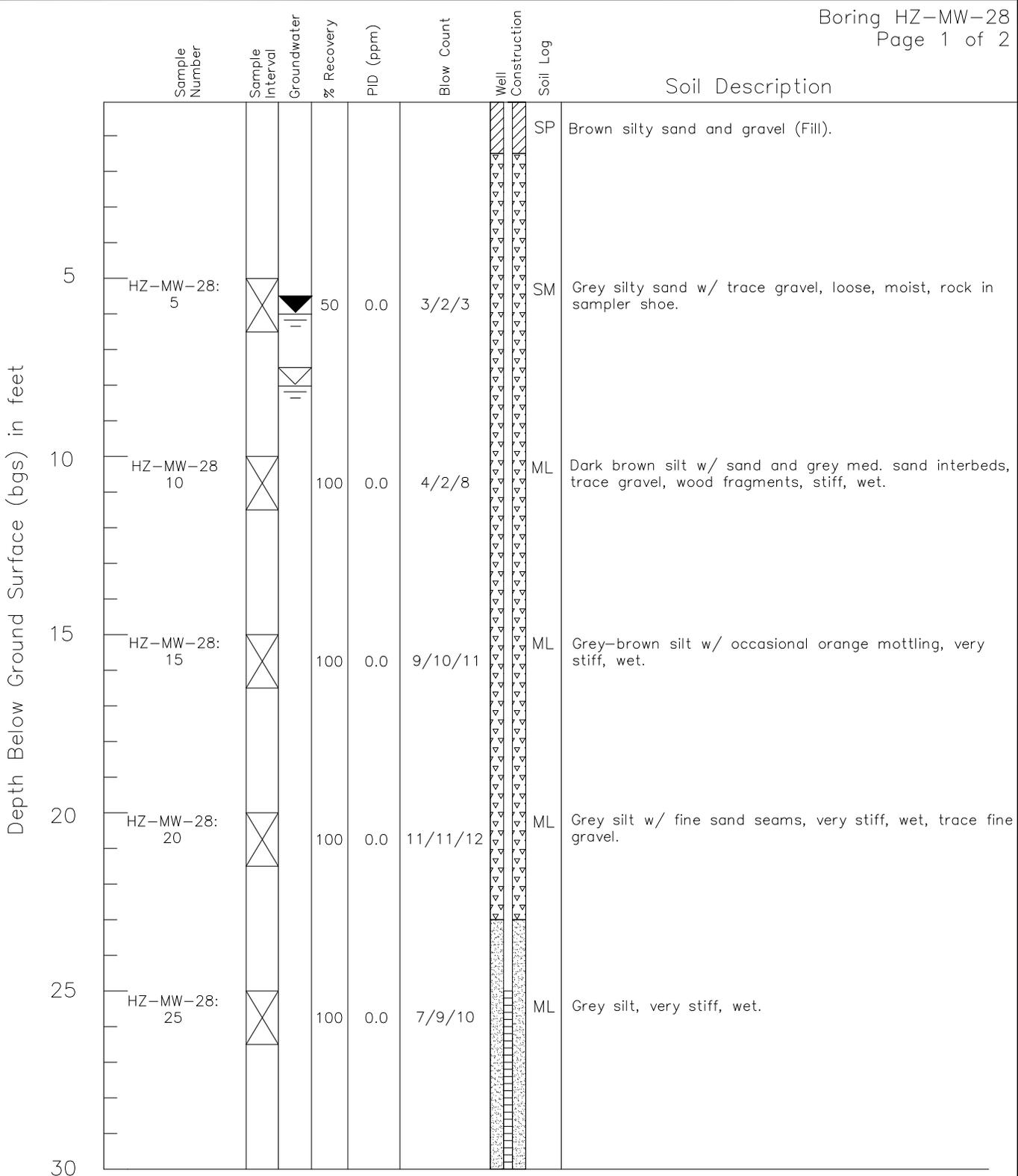
Logged by: Nate Evenson Driller: Holt Services, Inc. Drilling Method: Sonic Sampling Method: Continuous Bag Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: N/A Date Drilled: 8/24/16 Hole Diameter: 6 inch Hole Depth: 55 feet Well Diameter: 2 inch Well Depth: 55 feet Screened Interval: 45-55 feet	Depth to Water (First Encountered): ~6 feet Depth to Water (Static): 8.0 ft on 9/12/16 Well Tag: BJX 203
Soils classified visually using the Unified Soils Classification System	[Diagonal Lines] Concrete [Inverted Triangles] Bentonite [Dotted] Sand	[Vertical Bars] Well Screen



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Remedial Investigation / Feasibility Study
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Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 10/20/16
 Hole Diameter: 8 inches
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 5.85 ft on 10/27/16
 Well Tag: BKY 114

Concrete
 Bentonite
 Sand
 Well Screen

Soils classified visually using the Unified Soils Classification System

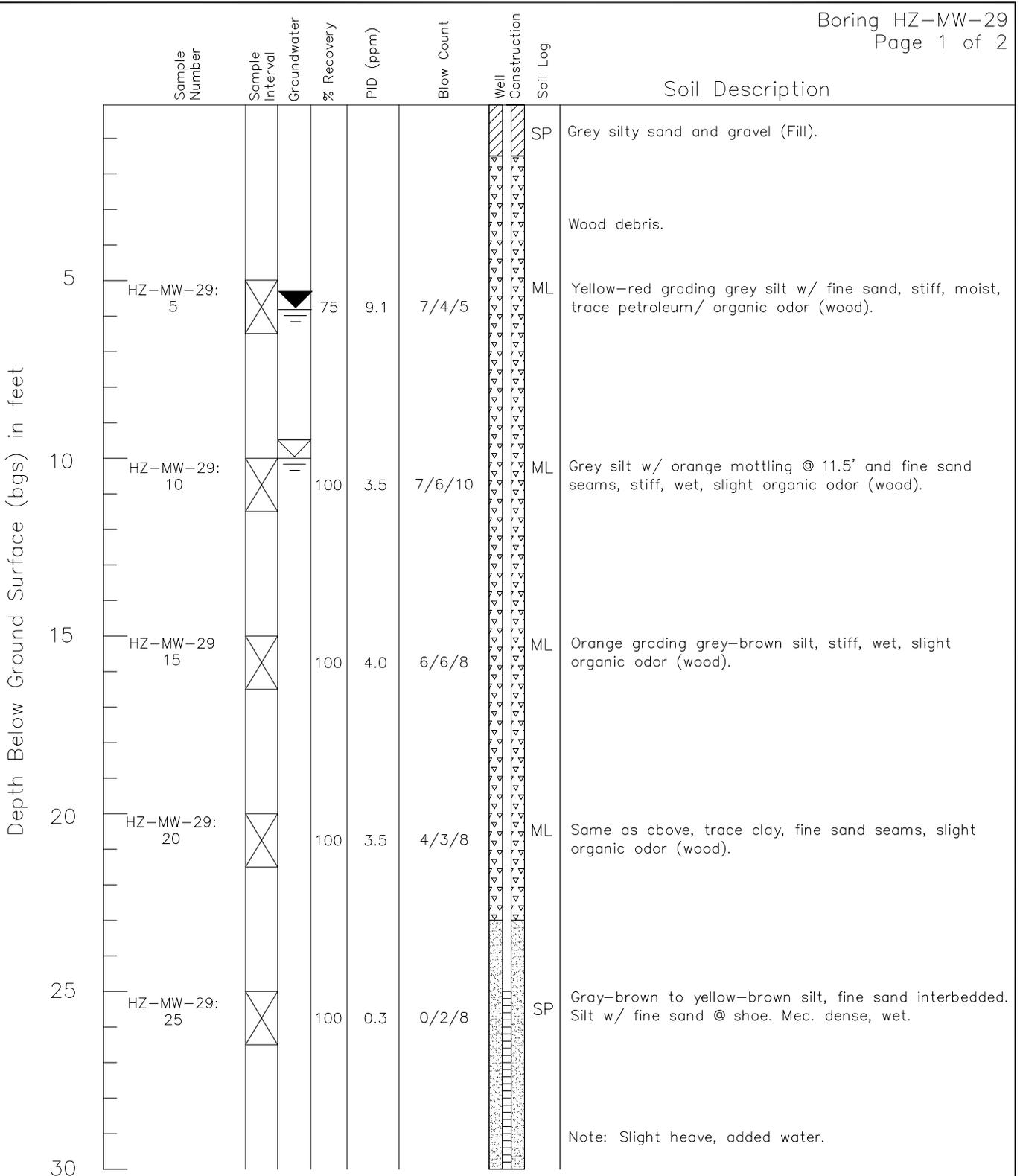


Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	HZ-MW-28: 30	X		100	0.0	2/5/13		ML
35	HZ-MW-28: 35	X		100	0.0	2/6/10		ML	Same as above, w/ grey sand interbeds, stiff, wet, increasing sand @ shoe.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 10/20/16 Hole Diameter: 8 inch Hole Depth: 36.5 feet Well Diameter: 2 inch Well Depth: 35 feet Screened Interval: 25-35 feet	Depth to Water (First Encountered): ~8 feet Depth to Water (Static): 5.85 ft on 10/27/16 Well Tag: BKY 114
Soils classified visually using the Unified Soils Classification System	Concrete Bentonite Sand	Well Screen



Note: Slight heave, added water.

Logged by: Justin Vetter Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 10/21/16 Hole Diameter: 8 inches Hole Depth: 36.5 feet Well Diameter: 2 inch Well Depth: 35 feet Screened Interval: 25-35 feet	Depth to Water (First Encountered): ~10 feet Depth to Water (Static): 5.84 ft on 10/27/16 Well Tag: BKY 115
Soils classified visually using the Unified Soils Classification System	Concrete Bentonite Sand	Well Screen



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Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	HZ-MW-29: 30	X		100	0.2	9/18/25		ML
35	HZ-MW-29: 35	X		100	0.0	8/12/15		SM	Grey-brown fine-med. sand w/ silt to silty sand, med. dense, wet, trace gravel.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 10/21/16 Hole Diameter: 6 inch Hole Depth: 36.5 feet Well Diameter: 2 inch Well Depth: 35 feet Screened Interval: 25-35 feet	Depth to Water (First Encountered): ~10 feet Depth to Water (Static): 5.84 ft on 10/27/16 Well Tag: BKY 115
Soils classified visually using the Unified Soils Classification System	Concrete Bentonite Sand	Well Screen



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
								0-8": Asphalt Note: Cleared w/ air knife 1'-6'.
							SP	1'-6': Brown coarse sand w/ gravel.
HZ-MW-30: 6.5			50	0.0	3/3/3		SP	6'-7': Brown med.-coarse sand w/ gravel, loose, moist.
HZ-MW-30: 10			20	0.0	2/2/2		SP	10': Brown med.-coarse sand w/ gravel, loose, moist, silt w/ clay and slight mottling at shoe.
HZ-MW-30: 15.5			80	0.0	6/6/5		ML	15.5'-16.5': Brown silt w/ sand and trace gravel, stiff, sat.
							ML	16.5'-17': Grey silt w/ trace organic material, stiff, sat.
HZ-MW-30: 21			100	0.0	6/8/10		ML	20'-20.5': Brownish grey silt w/ trace gravel and w/ clay. Slight plasticity, very stiff, sat.
							ML	20.5'-21.5': Grey silt, very stiff, sat.
HZ-MW-30: 26			100	0.0	4/8/8		ML	25'-25.75': Grey silt w/ clay, plastic, high dilatancy, soft, sat.
							SM	25.75-26.5: Grey fine-very fine sand w/ silt, med. dense, sat.

Logged by: Brianna Hunt and Jeffrey Jensen Hammer Size: 140 lb
 Driller: Cascade Drilling Inc. Date Drilled: 11/18/16
 Drilling Method: Hollow Stem Auger Hole Diameter: 6 inch
 Sampling Method: Split Spoon Sampling Hole Depth: 50 feet
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~7 feet
 Depth to Water (Static): 7.08 ft on 11/28/16
 Well Tag:

Concrete
 Bentonite
 Sand

Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	HZ-MW-30: 30	X		100	0.0	4/8/10	SM	SM
35	HZ-MW-30: 35	X		100	0.0	6/14/20	SM	SM	35'-36.5': Dark grey fine-very fine sand, med. dense, sat.
40	HZ-MW-30: 40	X		100	0.0	8/10/12	SM	SM	40'-41.5': Same as above.
45	HZ-MW-30: 45	X		100	0.0	8/10/10	SM	SM	45'-46.5': Dark grey fine-med. sand, med. dense, sat.
50	HZ-MW-30: 50	X		100	0.0	50 for 5"	SM	SM	50'-51.5': Dark grey med.-fine sand w/ silt and gravel, very dense, sat. (Till).
55									Boring terminated at 50' below ground surface.
60									

Logged by: Brianna Hunt and Jeffrey Jensen Hammer Size: 140 lb
 Driller: Cascade Drilling Inc. Date Drilled: 11/18/16
 Drilling Method: Hollow Stem Auger Hole Diameter: 6 inch
 Sampling Method: Split Spoon Sampling Hole Depth: 50 feet
 Casing Type: 2" PVC Well Diameter: 2 inch
 Annular Pack: Sand Well Depth: 50 feet
 Slot Size: 0.010" Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~7 feet
 Depth to Water (Static): 7.08 ft on 11/28/16
 Well Tag:

 Concrete
 Bentonite
 Sand

 Well Screen

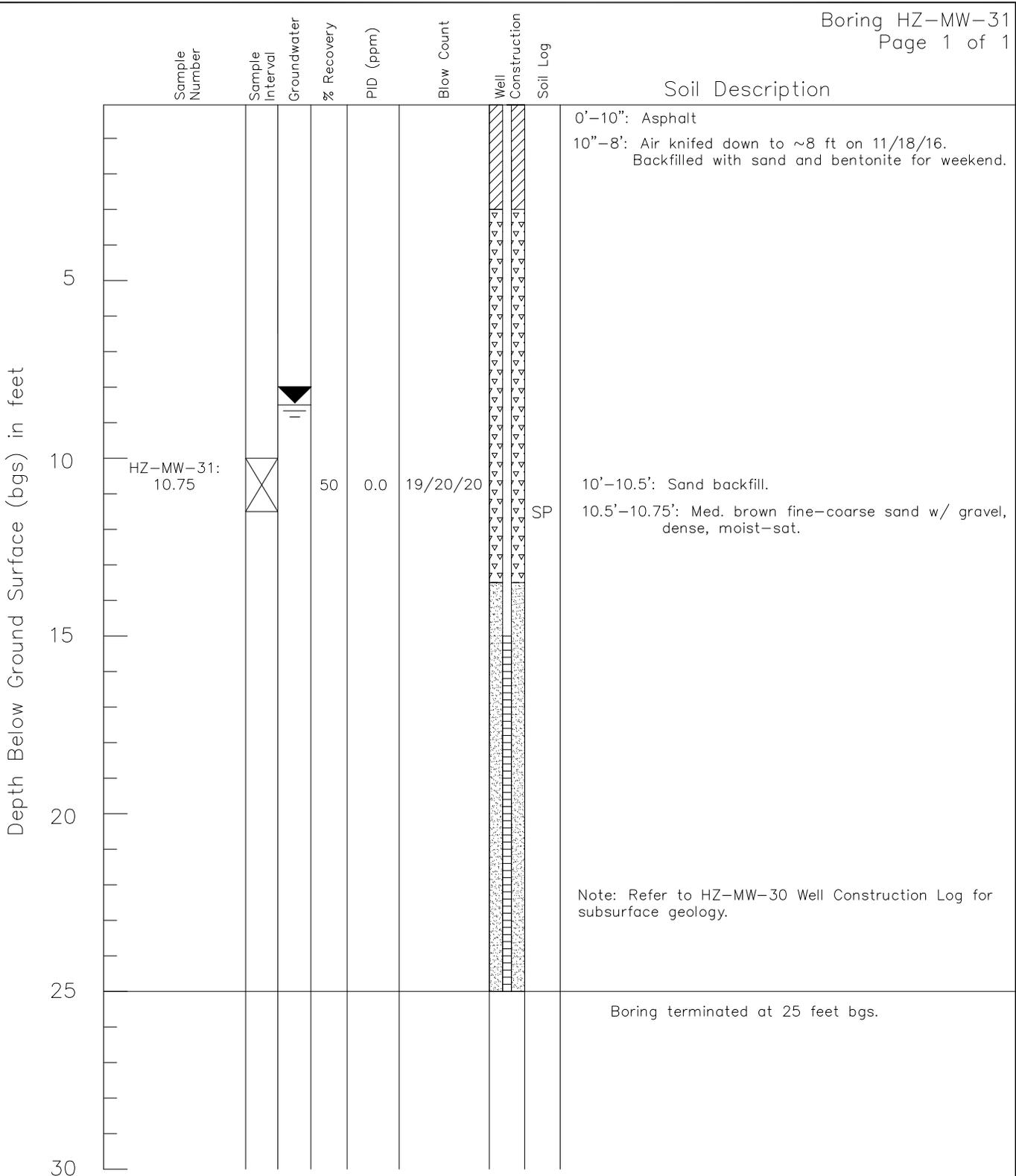
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Bothell, Washington

Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 11/21/16
 Hole Diameter: 6 inch
 Hole Depth: 25 feet
 Well Diameter: 2 inch
 Well Depth: 25 feet
 Screened Interval: 15-25 feet

Depth to Water (First Encountered):-
 Depth to Water (Static):8.42 ft on 11/28/16
 Well Tag: BJJ 400

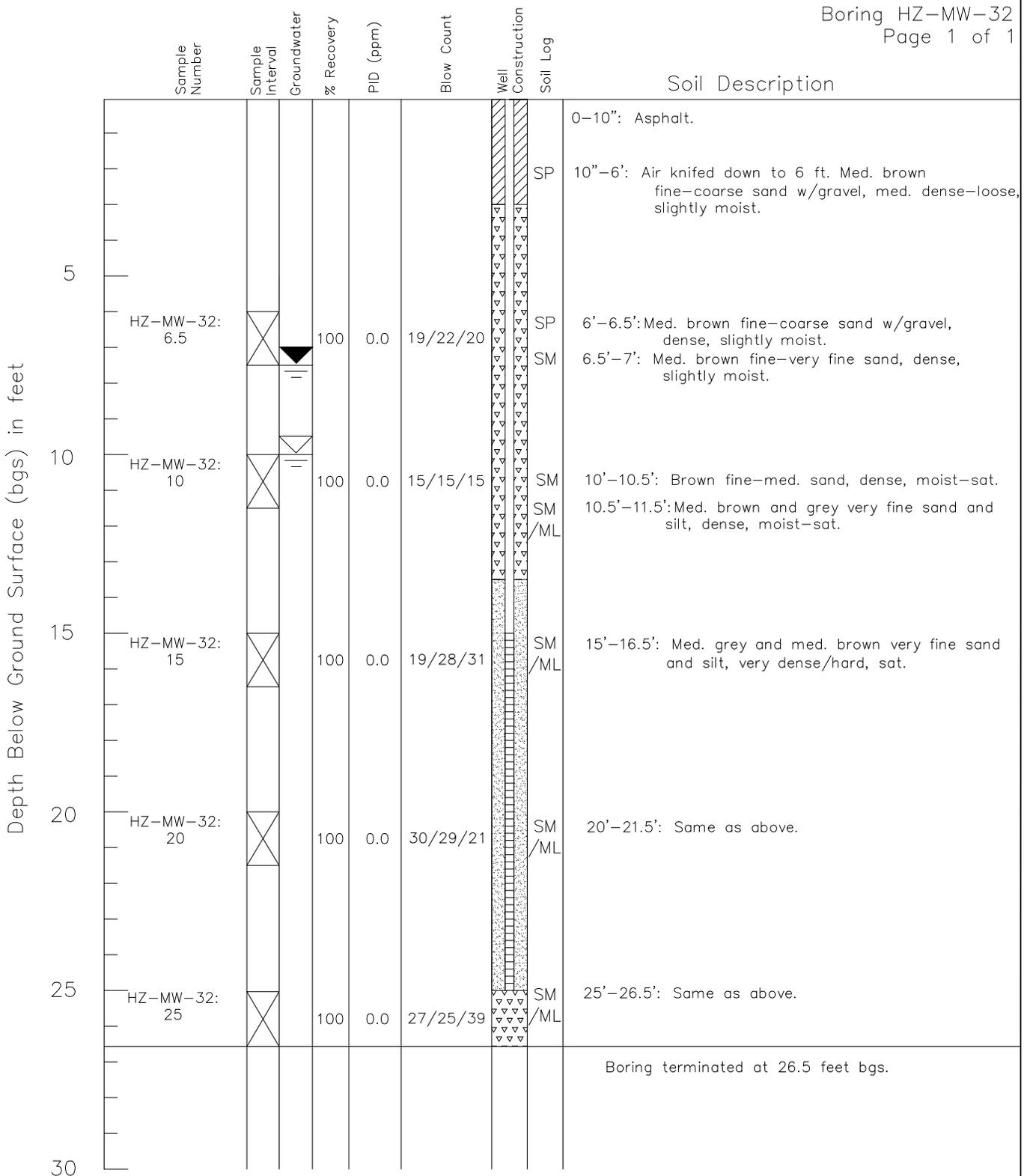
Concrete
 Bentonite
 Sand

Well Screen



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 11/21/16
 Hole Diameter: 6 inch
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 25 feet
 Screened Interval: 15-25 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 7.68 ft on 11/28/16
 Well Tag: BJJ 399

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
5	HZ-MW-33: 5			50	0.0	12/15/12		SP	5'-5.75': Med. brown gravelly fine-med. sand, med. dense, slightly moist.
10	HZ-MW-33: 10.5			50	0.0	11/9/7		ML	10'-10.25': Dark grey/ black silty clay w/ gravel, very stiff, slightly moist.
								ML	10.25'-10.75': Dark grey silt w/ very fine sand, very stiff, slightly moist.
15	HZ-MW-33: 15			100	0.0	10/9/9		ML	15'-15.25': Dark brown silt w/ fine sand, very stiff, sat.
								SP	15.25'-15.5': Med. grey med.-coarse sand w/ gravel, med. dense, sat.
								SM	15.5'-16.5': Olive brown gravelly med.-coarse sand w/ silt, med. dense, sat.
20	HZ-MW-33: 20			100	0.0	12/13/13		SM	20'-21.5': Med. grey very fine sand w/ interbedded lenses of silt and w/ orange mottling, med. dense, sat.
25	HZ-MW-33: 25			100	0.0	12/11/14		SP	25'-26.5': Olive brown silt w/ very fine sand, very stiff, sat.
30									

Logged by: Jeffrey Jensen
 Driller: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 300 lbs
 Date Drilled: 11/22/16
 Hole Diameter: 6 inches
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 3 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~15 feet
 Depth to Water (Static): 6.33 ft on 11/28/16
 Well Tag: -

Concrete
 Bentonite
 Sand

Well Screen

Soils classified visually using the Unified Soils Classification System



Remedial Investigation / Feasibility Study
 18107 Bothell Way NE
 Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	HZ-MW-33: 31	X		100	0.0	15/15/15	GP	GP
35	HZ-MW-33: 35.5	X		50	0.0	14/18/21	SP	SP	35'-35.25': Olive grey gravelly med.-coarse sand, dense, sat. 35.25'-35.75': Olive grey fine-very fine sand w/ trace gravels, dense, sat.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Jeffrey Jensen
 Driller: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 300 lbs
 Date Drilled: 11/22/16
 Hole Diameter: 6 inch
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~15 feet
 Depth to Water (Static): 6.33 ft on 11/28/16
 Well Tag: -

 Concrete
 Bentonite
 Sand

 Well Screen

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Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
									Red brick (Fill).
5	HZ-MW-34: 5.75			100	0.0	6/6/7		SM	5'-5.75': Light brown very fine sand w/ silt and gravel, med. dense, very moist.
								SM	5.75'-6.5': Light brown/ grey very fine sand w/ silt, w/ orange mottling, med. dense, moist.
10	HZ-MW-34: 10			100	0.0	5/7/9		ML	10'-10.5': Olive brown silt w/ trace very fine sand, very stiff, slightly moist-moist.
								SM	10.5'-11.5': Olive brown very fine sand w/ silt, med. dense, slightly moist-moist.
15	HZ-MW-34: 15			100	0.0	8/8/9		SM	Same as above, sat.
20	HZ-MW-34: 20			100	0.0	10/12/15		SM	20'-21': Olive grey silty very fine sand w/ interbedded fine-med. sand, w/ burnt orange mottling, med. dense, sat.
								SP	21'-21.5': Olive grey and burnt orange fine-med. sand, med. dense, sat.
25	HZ-MW-34: 25			100	0.0	12/15/14		SP	25'-26': Olive grey fine-med. sand, med. dense, sat.
								SP	26'-26.25': Olive grey silt w/ burnt orange mottling, very stiff, sat.
								SP	26.25'-26.5': Olive grey fine sand, med. dense, sat.
30									Boring terminated at 26.5 feet bgs.

Logged by: Jeffrey Jensen
 Driller: Cascade Drilling Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 300 lbs
 Date Drilled: 11/22/16
 Hole Diameter: 6 inch
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 25 feet
 Screened Interval: 15-25 feet

Depth to Water (First Encountered): ~5 feet
 Depth to Water (Static): 4.81 ft on 11/28/16
 Well Tag: -

Concrete
 Bentonite
 Sand
 Well Screen

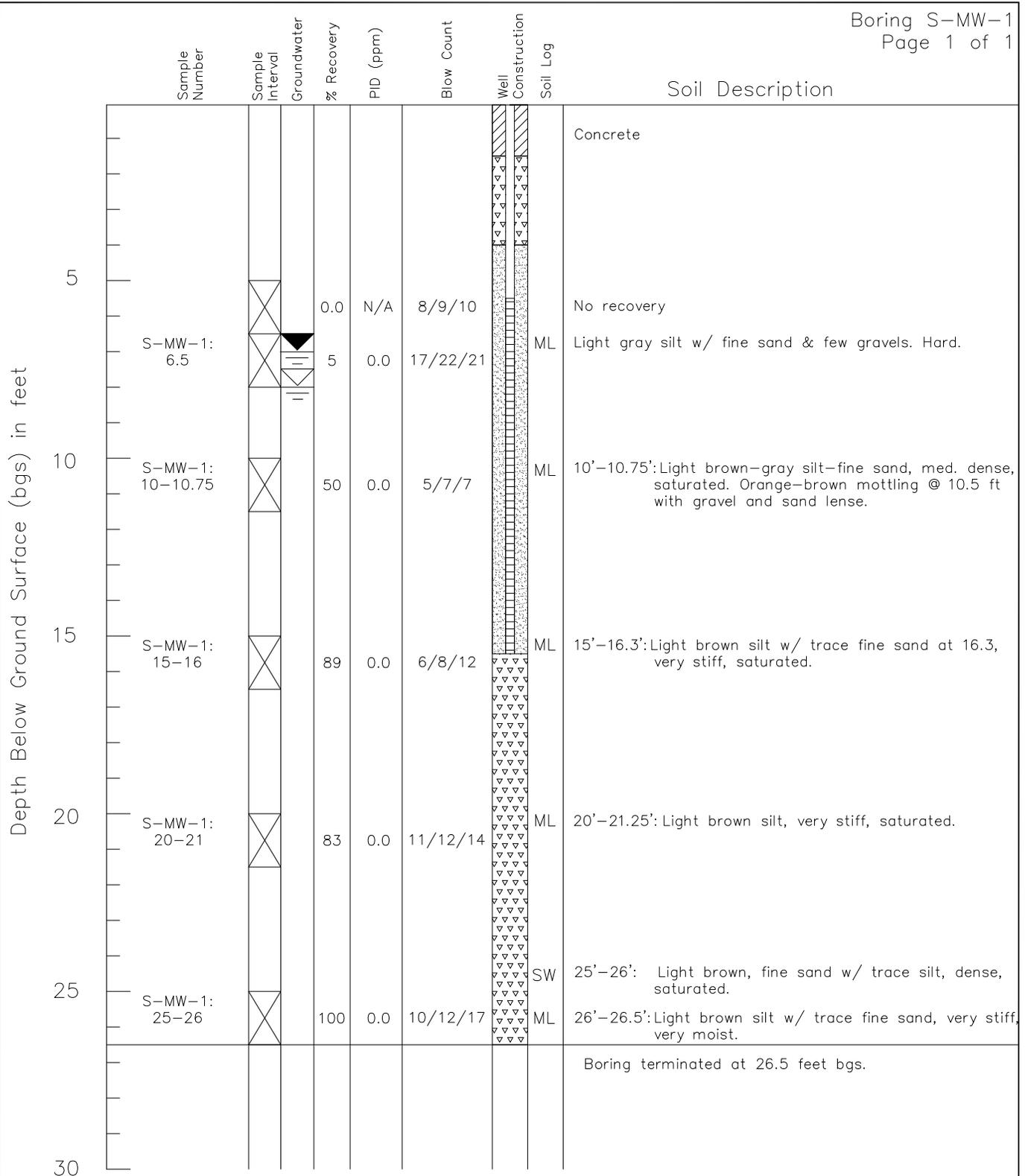
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Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/22/16
 Hole Diameter: 6 inches
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 15.5 feet
 Screened Interval: 5.5-15.5 feet

Depth to Water (First Encountered): ~8 feet
 Depth to Water (Static): 6.96 ft on 9/12/16
 Well Tag: BJX 033

 Concrete
 Bentonite
 Sand

 Well Screen

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Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	5	S-MW-2: 5.25-5.6	X		44	0.0	6/12/11	SP	5'-5.25': Brown fine-med. sand, med. dense, dry.
	S-MW-2: 6.5-7	X	▲	100	-	12/11/12	SM	5.25'-5.66': Grey-brown fine sand-silt, med. dense, slightly moist at base.	
		X					SM	6.5'-7': Grey-brown fine sand-silt w/ trace gravel, med. dense, slightly moist.	
		X					ML	7'-8': Med. brown silt w/ fine sand, stiff, saturated-very moist.	
10	S-MW-2: 10.5-11	X		100	0.0	3/5/8	ML	10'-11.5': Same as above.	
15	S-MW-2: 15-15.5	X		44	0.0	5/9/8	ML	15'-15.66': Same as above, orange mottling @~15 ft in fine sand lense.	
20	S-MW-2: 20.5-21	X		100	0.0	9/10/10	ML	20'-21.5': Same as above, very stiff, orange-red mottling @~21 ft in fine sand lense.	
25	S-MW-2: 25-25.5	X		100	0.0	7/10/12	SP	25'-25.5': Med. brown-orange fine sand, med. dense, saturated.	
		X					ML	25.5'-26.5': Med. brown-grey silt w/fine sand, very stiff, saturated.	
								Boring terminated at 26.5 feet bgs.	
30									

Logged by: Jeffrey Jensen Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 8/24/16 Hole Diameter: 6 inches Hole Depth: 26.5 feet Well Diameter: 2 inch Well Depth: 15 feet Screened Interval: 5-15 feet	Depth to Water (First Encountered): ~7 feet Depth to Water (Static): 6.21 ft on 9/12/16 Well Tag: BJX 036
Soils classified visually using the Unified Soils Classification System	Concrete  Bentonite  Sand 	Well Screen 

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
5	S-MW-3: 5-5.25			16	0.0	7/4/6	ML	5'-5.25': Red-brown silt-med. sand, loose, dry.	
				16	0.0	7/7/6	GM	6.5'-6.75': Red-brown silt-gravels (mostly gravel), med. dense, moist @ base.	
10	S-MW-3: 10-10.5			66	0.6	3/4/4	ML	10'-11': Med. brown silt w/ fine sand, loose, saturated, petroleum odor @ 10 ft.	
15	S-MW-3: 16-16.5			100	2.5	6/7/8	ML	15'-16.5': Med. brown silt w/ fine sand, med. dense, saturated. Lenses of fine sand. Slight petroleum odor throughout.	
20	S-MW-3: 20.5-21			100	0.4	8/14/16	ML SM ML	20'-20.5': Med. brown silt w/ fine sand, very stiff, saturated. 20.5'-21': Med. brown fine sand w/ silt med. dense, saturated. 21'-21.5': Med. brown-grey silt w/ fine sand, very stiff, saturated.	
25	S-MW-3: 25.5-26			66	0.0	9/11/16	ML	25'-26': Same as above. Burnt orange mottling @~26 ft.	

Logged by: Jeffrey Jensen
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/25/16
 Hole Diameter: 6 inches
 Hole Depth: 36.5 feet
 Well Diameter: 2 inch
 Well Depth: 35 feet
 Screened Interval: 25-35 feet

Depth to Water (First Encountered): ~7 feet
 Depth to Water (Static): 6.62 ft on 9/12/16
 Well Tag: BJX 037

 Concrete
 Bentonite
 Sand

 Well Screen

Soils classified visually using the Unified Soils Classification System



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Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	S-MW-3: 31	X		100	0.1	5/9/13		ML
35	S-MW-3: 35.5	X		100	0.3	6/11/12		ML ML	35'-35.5': Same as above. Brunt orange mottling @ 35.5 ft. 35.5'-36.5': Light brown silt, very stiff, saturated.
40									Boring terminated at 36.5 feet bgs.
45									
50									
55									
60									

Logged by: Jeffrey Jensen Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 8/25/16 Hole Diameter: 6 inches Hole Depth: 36.5 feet Well Diameter: 2 inch Well Depth: 35 feet Screened Interval: 25-35 feet	Depth to Water (First Encountered): ~7 feet Depth to Water (Static): 6.62 ft on 9/12/16 Well Tag: BJX 037
---	--	---

Soils classified visually using the Unified Soils Classification System

 Concrete	 Well Screen
 Bentonite	
 Sand	



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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log

Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	5	S-MW-4: 2.5	X		100	0.0	7/7/9	ML	ML
	S-MW-4: 6	X	▼	100	0.4	7/2/2	ML	ML	Same as above, soft, moist grading wet, decreasing mottling.
	S-MW-4: 7.5	X		100	0.0	5/6/7	ML	ML	Same as above, stiff, wet.
10	S-MW-4: 10	X		100	1.7	5/5/4	ML	ML	Same as above.
15	S-MW-4: 16	X		100	0.9	10/15/11	SP	SP	15'-15.75': Med. brown, fine sand, med. dense, saturated. 15.75'-16': Orange-brown, coarse sand.
							ML	ML	16'-16.5': Med. grey silt w/ coarse sand and few gravels at 16.25.
20	S-MW-4: 21	X		100	2.0	11/13/16	ML	ML	Brown silt w/ fine sand, very stiff, wet. Orange mottling seams w/ fine-med. sand seams.
25	S-MW-4: 26	X		100	0.9	13/13/12	ML	ML	Gray-brown silt w/ fine sand, trace mottling, stiff, wet.

Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 8/30/16
 Hole Diameter: 6 inch
 Hole Depth: 56
 Well Diameter: 2 inch
 Well Depth: 50 feet
 Screened Interval: 40-50 feet

Depth to Water (First Encountered): ~6 feet
 Depth to Water (Static): 6.32 ft on 9/12/16
 Well Tag: BJX 044

 Concrete
 Bentonite
 Sand

 Well Screen

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Well Construction Log

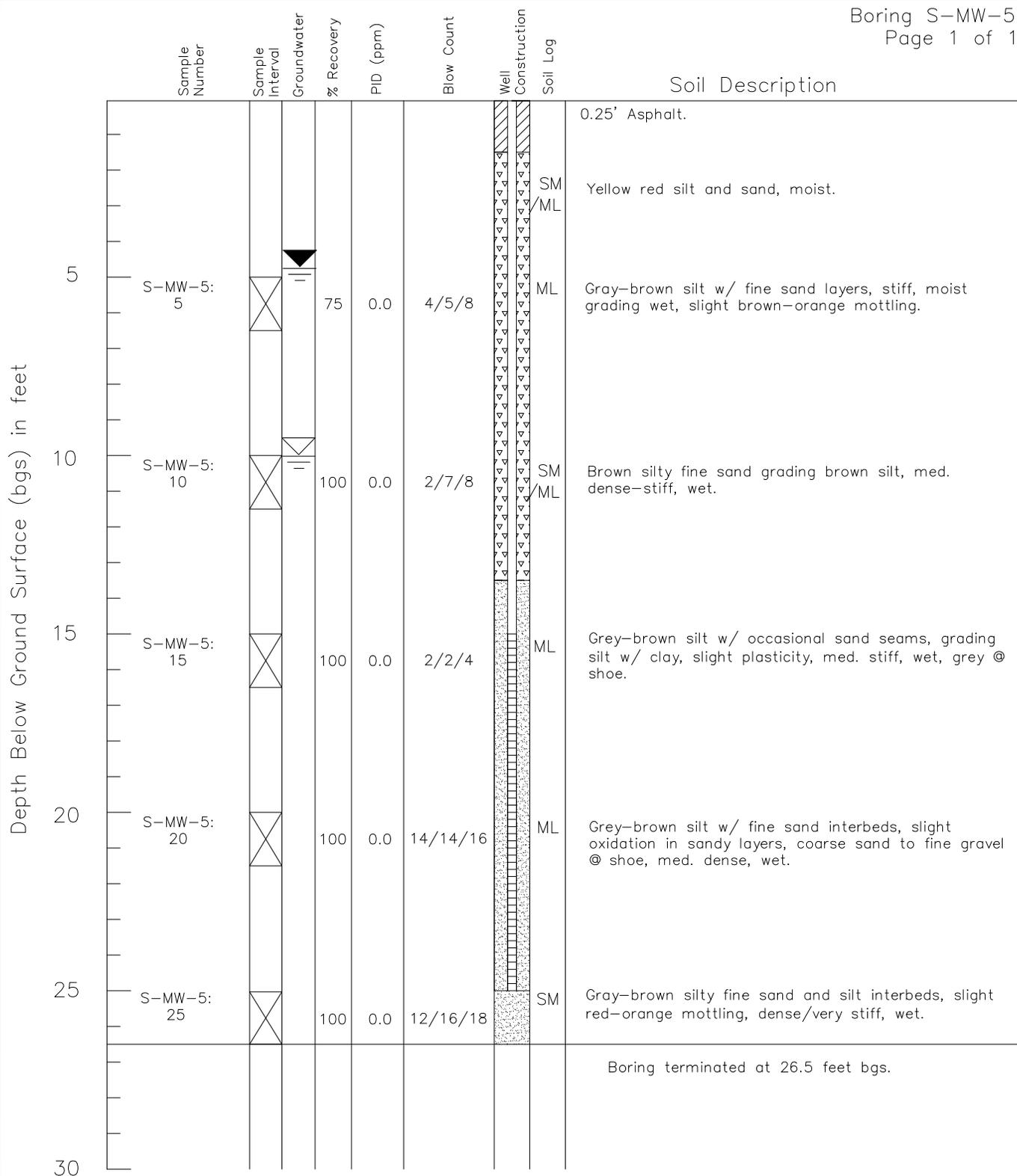
Depth Below Ground Surface (bgs) in feet	Sample Number	Sample Interval	Groundwater	% Recovery	PID (ppm)	Blow Count	Well Construction	Soil Log	Soil Description
	30	S-MW-4: 30.5			100	0.0	9/11/12		SM
35	S-MW-4: 36			83	0.0	10/12/15		SM	Grey-brown silty fine sand w/ med. sand seams, med. dense, wet, trace oxidation.
40	S-MW-4: 41			100	0.0	9/15/22		SM	Grey-brown silty fine sand to sandy silt w/ med. sand seams, very dense, wet.
45	S-MW-4: 46			100	0.0	12/29/38		ML	Brown silt w/ silty sand seams, hard, wet, occasional oxidation. Note: Rig Chatter.
50	S-MW-4: 51			100	0.0	21/41/ 50-4"		ML	Gray silt w/ fine sand w/ med. sand seams, very dense, wet (Till).
55	S-MW-4: 55			100	0.0	46/50-4"		ML	Gray silt & fine sand, very dense, wet, trace gravel (Till).
60									Boring terminated at 56 feet bgs.

Logged by: Vance Atkins Driller: Holt Services, Inc. Drilling Method: Hollow Stem Auger Sampling Method: Split Spoon Casing Type: 2" PVC Annular Pack: Sand Slot Size: 0.010"	Hammer Size: 140 lbs Date Drilled: 8/30/16 Hole Diameter: 6 inch Hole Depth: 56 Well Diameter: 2 inch Well Depth: 50 feet Screened Interval: 40-50 feet	Depth to Water (First Encountered): ~6 feet Depth to Water (Static): 6.32 ft on 9/12/16 Well Tag: BJJ 044
Soils classified visually using the Unified Soils Classification System	Concrete  Bentonite  Sand 	Well Screen 



Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Vance Atkins
 Driller: Holt Services, Inc.
 Drilling Method: Hollow Stem Auger
 Sampling Method: Split Spoon
 Casing Type: 2" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: 140 lbs
 Date Drilled: 10/21/16
 Hole Diameter: 8 inch
 Hole Depth: 26.5 feet
 Well Diameter: 2 inch
 Well Depth: 25 feet
 Screened Interval: 15-25 feet

Depth to Water (First Encountered): ~10 feet
 Depth to Water (Static): 4.77 ft on 10/28/16
 Well Tag: BKY 116

Concrete
 Bentonite
 Sand

Well Screen

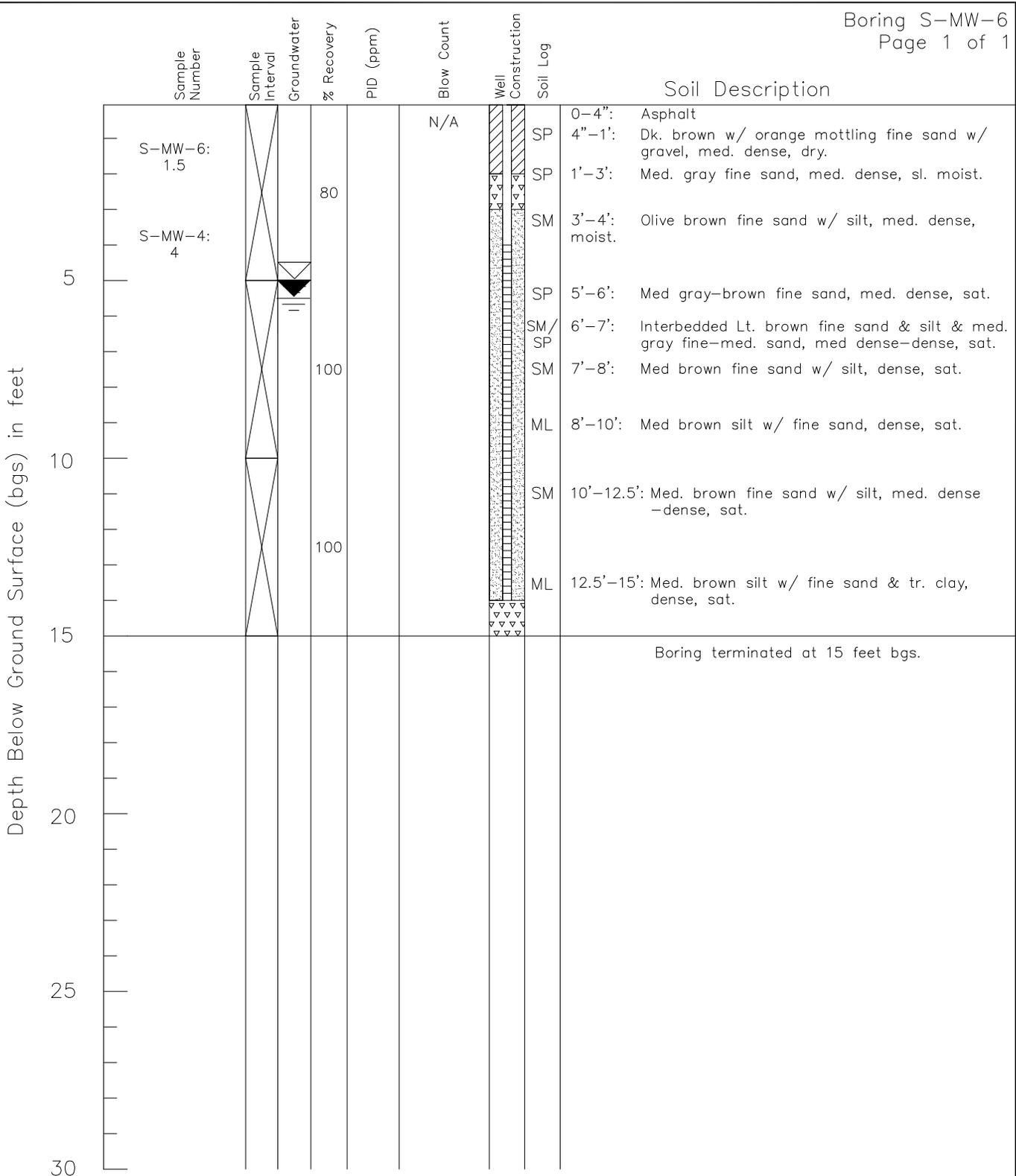
Soils classified visually using the Unified Soils Classification System



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Remedial Investigation / Feasibility Study
18107 Bothell Way NE
Bothell, Washington

Well Construction Log



Logged by: Jeffrey Jensen
 Driller: Cascade Drilling
 Drilling Method: Direct-Push
 Sampling Method: Acetate Liner
 Casing Type: 3/4" PVC
 Annular Pack: Sand
 Slot Size: 0.010"

Hammer Size: N/A
 Date Drilled: 12/29/16
 Hole Diameter: 2 inch
 Hole Depth: 15 feet
 Well Diameter: 3/4 inch
 Well Depth: 14 feet
 Screened Interval: 4-14 feet

Depth to Water (First Encountered): ~5 feet
 Depth to Water (Static): 5.51 ft on 1/3/17
 Well Tag: BKY 423

 Concrete
 Bentonite
 Sand

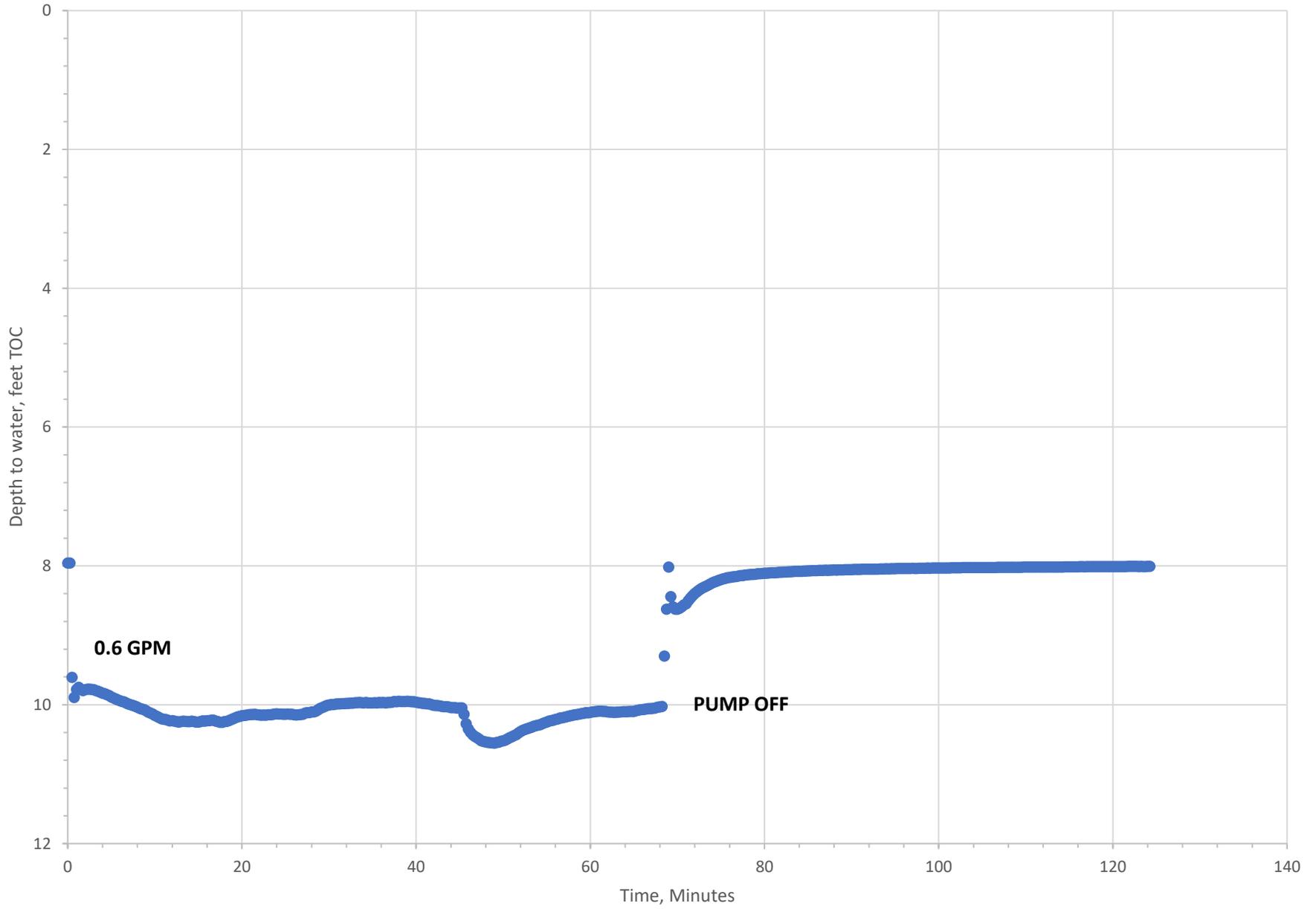
 Well Screen

Soils classified visually using the Unified Soils Classification System

DRAFT

**Attachment B
Aquifer Test Analyses**

MW-06 Pumping Test



WELL ID: MW-06-Recovery

Local ID: MW-06

Date: 2/1/2017

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	7.96 Feet
Top of Aquifer	10 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	Fine Sand
FLOW RATE	0.6 GPM

COMPUTED

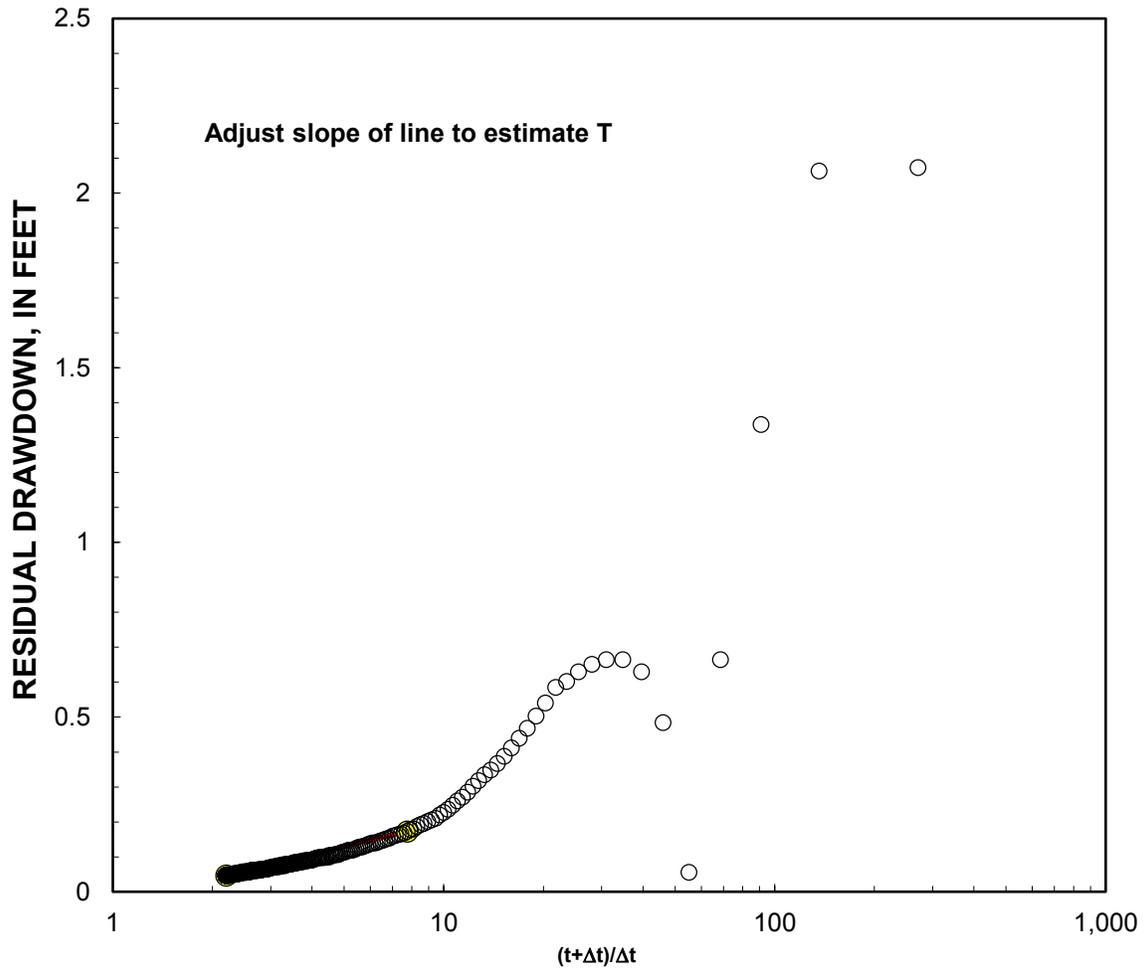
Aquifer thickness = 45 Feet

Slope = 0.230398 Feet/log10

Input is consistent.

K =	2 Feet/Day
T =	92 Feet ² /Day

K= 2 is less than likely minimum of 3 for Fine Sand



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Reduced Data					
Entry	Time, Date Hr:Min:Sec	Water Level Feet	Entry	Time, Date Hr:Min:Sec	Water Level Feet
1	1/0/00 0:00:00	7.96	51	1/0/00 1:32:15	8.05
2	1/0/00 1:07:45	10.03	52	1/0/00 1:32:45	8.05
3	1/0/00 1:08:15	9.30	53	1/0/00 1:33:15	8.04
4	1/0/00 1:08:45	8.02	54	1/0/00 1:33:45	8.04
5	1/0/00 1:09:15	8.59	55	1/0/00 1:34:15	8.04
6	1/0/00 1:09:45	8.63	56	1/0/00 1:34:45	8.04
7	1/0/00 1:10:15	8.59	57	1/0/00 1:35:15	8.04
8	1/0/00 1:10:45	8.55	58	1/0/00 1:35:45	8.04
9	1/0/00 1:11:15	8.46	59	1/0/00 1:36:15	8.04
10	1/0/00 1:11:45	8.40	60	1/0/00 1:36:45	8.04
11	1/0/00 1:12:15	8.35	61	1/0/00 1:37:15	8.04
12	1/0/00 1:12:45	8.31	62	1/0/00 1:37:45	8.04
13	1/0/00 1:13:15	8.28	63	1/0/00 1:38:15	8.04
14	1/0/00 1:13:45	8.25	64	1/0/00 1:38:45	8.04
15	1/0/00 1:14:15	8.22	65	1/0/00 1:39:15	8.03
16	1/0/00 1:14:45	8.20	66	1/0/00 1:39:45	8.03
17	1/0/00 1:15:15	8.18	67	1/0/00 1:40:15	8.03
18	1/0/00 1:15:45	8.17	68	1/0/00 1:40:45	8.03
19	1/0/00 1:16:15	8.16	69	1/0/00 1:41:15	8.03
20	1/0/00 1:16:45	8.15	70	1/0/00 1:41:45	8.03
21	1/0/00 1:17:15	8.14	71	1/0/00 1:42:15	8.03
22	1/0/00 1:17:45	8.13	72	1/0/00 1:42:45	8.03
23	1/0/00 1:18:15	8.12	73	1/0/00 1:43:15	8.03
24	1/0/00 1:18:45	8.12	74	1/0/00 1:43:45	8.03
25	1/0/00 1:19:15	8.11	75	1/0/00 1:44:15	8.03
26	1/0/00 1:19:45	8.11	76	1/0/00 1:44:45	8.02
27	1/0/00 1:20:15	8.10	77	1/0/00 1:45:15	8.02
28	1/0/00 1:20:45	8.10	78	1/0/00 1:45:45	8.02
29	1/0/00 1:21:15	8.10	79	1/0/00 1:46:15	8.02
30	1/0/00 1:21:45	8.09	80	1/0/00 1:46:45	8.02
31	1/0/00 1:22:15	8.09	81	1/0/00 1:47:15	8.02
32	1/0/00 1:22:45	8.08	82	1/0/00 1:47:45	8.02
33	1/0/00 1:23:15	8.08	83	1/0/00 1:48:15	8.02
34	1/0/00 1:23:45	8.08	84	1/0/00 1:48:45	8.02
35	1/0/00 1:24:15	8.07	85	1/0/00 1:49:15	8.02
36	1/0/00 1:24:45	8.07	86	1/0/00 1:49:45	8.02
37	1/0/00 1:25:15	8.07	87	1/0/00 1:50:15	8.02
38	1/0/00 1:25:45	8.07	88	1/0/00 1:50:45	8.02
39	1/0/00 1:26:15	8.07	89	1/0/00 1:51:15	8.02
40	1/0/00 1:26:45	8.06	90	1/0/00 1:51:45	8.02
41	1/0/00 1:27:15	8.06	91	1/0/00 1:52:15	8.02
42	1/0/00 1:27:45	8.06	92	1/0/00 1:52:45	8.02
43	1/0/00 1:28:15	8.06	93	1/0/00 1:53:15	8.02
44	1/0/00 1:28:45	8.06	94	1/0/00 1:53:45	8.02
45	1/0/00 1:29:15	8.06	95	1/0/00 1:54:15	8.01
46	1/0/00 1:29:45	8.05	96	1/0/00 1:54:45	8.01
47	1/0/00 1:30:15	8.05	97	1/0/00 1:55:15	8.01
48	1/0/00 1:30:45	8.05	98	1/0/00 1:55:45	8.01
49	1/0/00 1:31:15	8.05	99	1/0/00 1:56:15	8.01
50	1/0/00 1:31:45	8.05	100	1/0/00 1:56:45	8.01

Inch	0.083333	Second	1.16E-05	GPM	192.5134
Feet		1 Minute	0.000694	ft3/d	1
Meter	3.28084	Hour	0.041667	ft3/s	86400
cm	0.032808	Day	1	m3/d	35.39525
mm	0.003281			m3/s	3058149
PSI	2.31			liters/s	3058.149
				liters/min	50.96915
				cc/s	3.058149
Out Units =					
Convert =		1 Feet2/Day			
Convert =		1 Feet/Day			

Casing dia. (dc) 2 Inch
Annulus dia. (dw) 8 Inch
Screen Length (L) 10 Feet

Depths to:
water level (DTW) 7.96 Feet
Top of Aquifer 10 Feet
Base of Aquifer 55 Feet
Annular Fill:
across screen -- Coarse Sand
above screen -- Bentonite
Aquifer Material -- Fine Sand

wetted hole 10 Feet
Aquifer thickness = 45 Feet
Aquifer thickness = 45 feet
Aquifer thickness = 45 Feet 1
Aquifer thickness = 45 Feet 45

Fraction penetrated = 0.222222

slope points 7.75 0.173
 2.2 0.047

FLOW RATE 0.60 GPM
FLOW RATE 115.508 ft³/d

Rc = 0.083333 ft
Rw = 0.333333 ft

Slope = 0.230398 Feet /log₁₀
Slope = 0.230398 feet/log₁₀

T = 92 ft2/d
 91.75946 Feet2/Day 1
 92 Feet2/Day 92

K = 2.039099 ft/d
 2.039099 Feet/Day 0.1
K = 2 Feet/Day 20

Absolute Shut Down

Input is consistent.

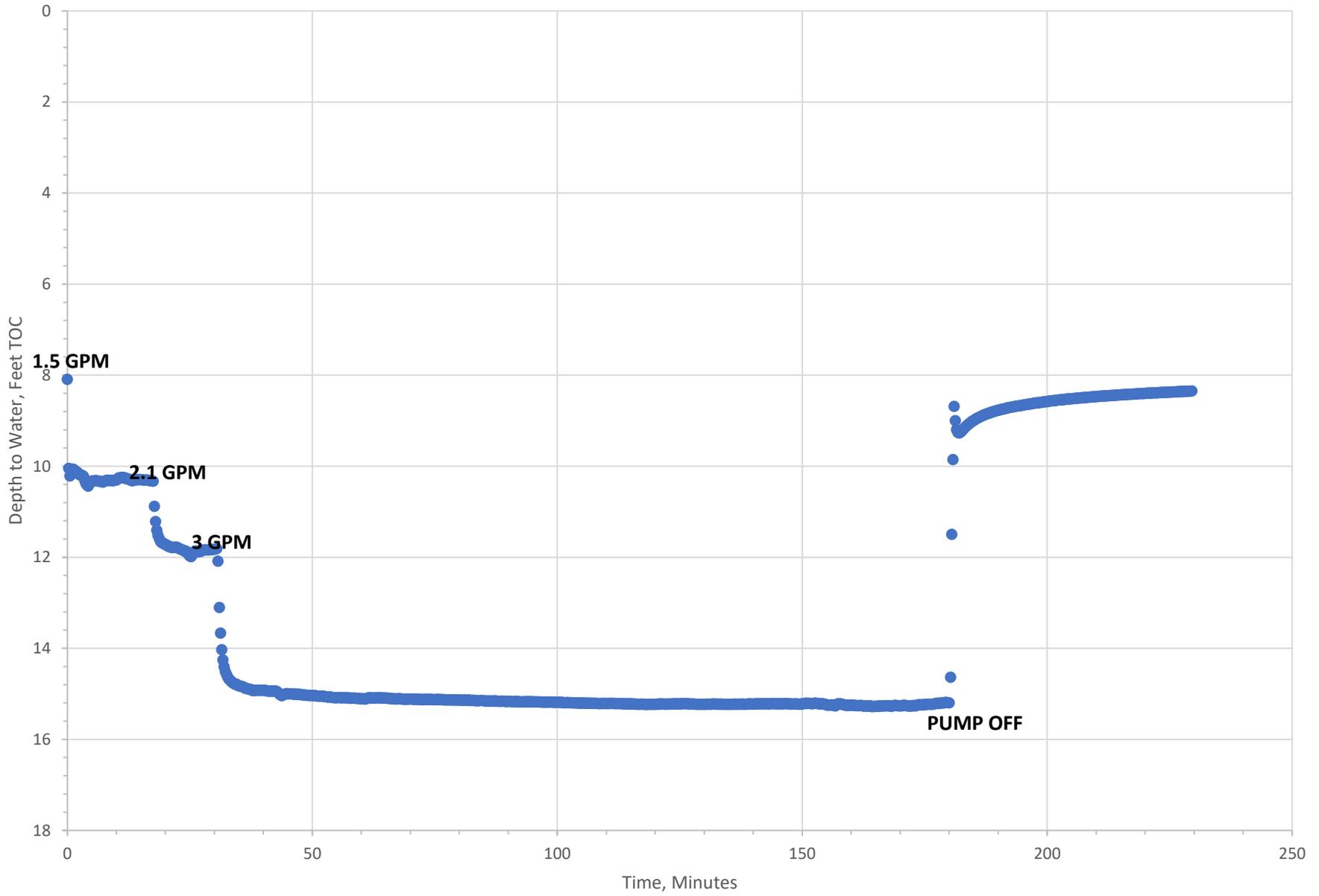
Decision	Option			
	0 Water level is below Base of Aquifer			
	0 Casing diameter is greater than the Annulus			
	0 Top of Aquifer is deeper than Base of Aquifer			
	0 Screen length is less than 1 Feet	1		
	0 Slope will produce a negative K			
	0 K = 2 is less than extreme minimum of 0.05 for Fine Sand	0.05	-2	0.05
	0 K = 2 is greater than extreme maximum of 20 for Fine Sand	20	1	20
	1 Input is consistent.			
	Error			

WARNING

K = 2 is less than likely minimum of 3 for Fine Sand

Decision	Option			
	0			
	1 K = 2 is less than likely minimum of 3 for Fine Sand	3	0	3
	1 K = 2 is greater than likely maximum of 20 for Fine Sand	20	1	20
	2			

MW-11 Pumping test



WELL ID: MW-11-Recovery

Local ID: MW-11

Date: 1/30/2017

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	8.09 Feet
Top of Aquifer	10 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	Fine Sand
FLOW RATE	3 GPM

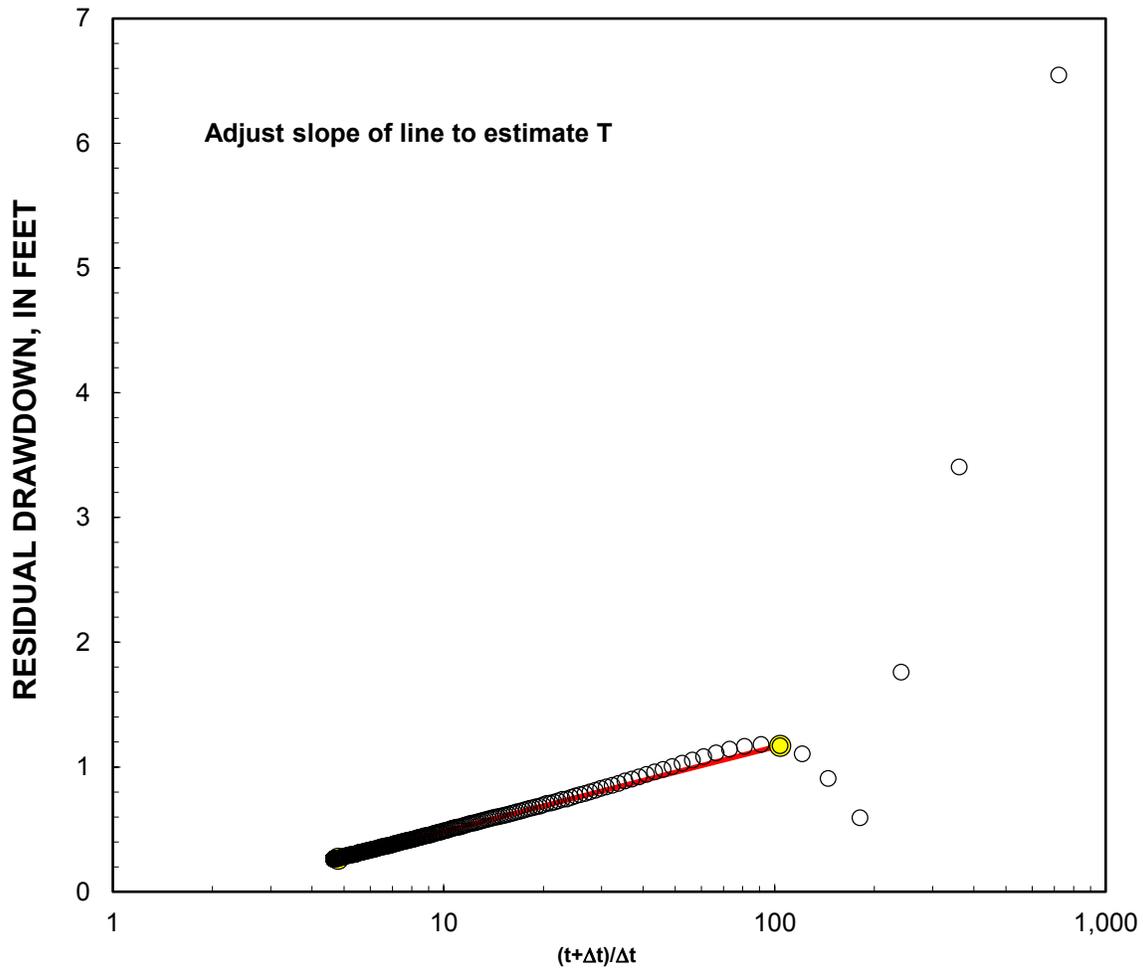
COMPUTED

Aquifer thickness = 45 Feet

Slope = 0.67732 Feet/log10

Input is consistent.

K =	3.5 Feet/Day
T =	160 Feet ² /Day



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Reduced Data					
Entry	Time, Date Hr:Min:Sec	Water Level Feet	Entry	Time, Date Hr:Min:Sec	Water Level Feet
1	1/0/00 0:00:00	8.09	51	1/0/00 3:12:15	8.71
2	1/0/00 3:00:00	15.20	52	1/0/00 3:12:30	8.71
3	1/0/00 3:00:15	14.64	53	1/0/00 3:12:45	8.70
4	1/0/00 3:00:30	11.50	54	1/0/00 3:13:00	8.70
5	1/0/00 3:00:45	9.85	55	1/0/00 3:13:15	8.69
6	1/0/00 3:01:00	8.69	56	1/0/00 3:13:30	8.69
7	1/0/00 3:01:15	9.00	57	1/0/00 3:13:45	8.68
8	1/0/00 3:01:30	9.20	58	1/0/00 3:14:00	8.68
9	1/0/00 3:01:45	9.26	59	1/0/00 3:14:15	8.67
10	1/0/00 3:02:00	9.27	60	1/0/00 3:14:30	8.67
11	1/0/00 3:02:15	9.26	61	1/0/00 3:14:45	8.66
12	1/0/00 3:02:30	9.23	62	1/0/00 3:15:00	8.66
13	1/0/00 3:02:45	9.20	63	1/0/00 3:15:15	8.66
14	1/0/00 3:03:00	9.18	64	1/0/00 3:15:30	8.65
15	1/0/00 3:03:15	9.15	65	1/0/00 3:15:45	8.65
16	1/0/00 3:03:30	9.12	66	1/0/00 3:16:00	8.64
17	1/0/00 3:03:45	9.10	67	1/0/00 3:16:15	8.64
18	1/0/00 3:04:00	9.07	68	1/0/00 3:16:30	8.63
19	1/0/00 3:04:15	9.05	69	1/0/00 3:16:45	8.63
20	1/0/00 3:04:30	9.03	70	1/0/00 3:17:00	8.62
21	1/0/00 3:04:45	9.01	71	1/0/00 3:17:15	8.62
22	1/0/00 3:05:00	9.00	72	1/0/00 3:17:30	8.62
23	1/0/00 3:05:15	8.98	73	1/0/00 3:17:45	8.61
24	1/0/00 3:05:30	8.96	74	1/0/00 3:18:00	8.61
25	1/0/00 3:05:45	8.95	75	1/0/00 3:18:15	8.61
26	1/0/00 3:06:00	8.93	76	1/0/00 3:18:30	8.60
27	1/0/00 3:06:15	8.92	77	1/0/00 3:18:45	8.60
28	1/0/00 3:06:30	8.90	78	1/0/00 3:19:00	8.59
29	1/0/00 3:06:45	8.89	79	1/0/00 3:19:15	8.59
30	1/0/00 3:07:00	8.88	80	1/0/00 3:19:30	8.59
31	1/0/00 3:07:15	8.87	81	1/0/00 3:19:45	8.58
32	1/0/00 3:07:30	8.86	82	1/0/00 3:20:00	8.58
33	1/0/00 3:07:45	8.85	83	1/0/00 3:20:15	8.57
34	1/0/00 3:08:00	8.84	84	1/0/00 3:20:30	8.57
35	1/0/00 3:08:15	8.83	85	1/0/00 3:20:45	8.57
36	1/0/00 3:08:30	8.82	86	1/0/00 3:21:00	8.56
37	1/0/00 3:08:45	8.81	87	1/0/00 3:21:15	8.56
38	1/0/00 3:09:00	8.80	88	1/0/00 3:21:30	8.56
39	1/0/00 3:09:15	8.80	89	1/0/00 3:21:45	8.55
40	1/0/00 3:09:30	8.79	90	1/0/00 3:22:00	8.55
41	1/0/00 3:09:45	8.78	91	1/0/00 3:22:15	8.55
42	1/0/00 3:10:00	8.77	92	1/0/00 3:22:30	8.55
43	1/0/00 3:10:15	8.76	93	1/0/00 3:22:45	8.54
44	1/0/00 3:10:30	8.76	94	1/0/00 3:23:00	8.54
45	1/0/00 3:10:45	8.75	95	1/0/00 3:23:15	8.54
46	1/0/00 3:11:00	8.74	96	1/0/00 3:23:30	8.53
47	1/0/00 3:11:15	8.74	97	1/0/00 3:23:45	8.53
48	1/0/00 3:11:30	8.73	98	1/0/00 3:24:00	8.53
49	1/0/00 3:11:45	8.73	99	1/0/00 3:24:15	8.53
50	1/0/00 3:12:00	8.72	100	1/0/00 3:24:30	8.52

Inch	0.083333	Second	1.16E-05	GPM	192.5134
Feet		1 Minute	0.000694	ft ³ /d	1
Meter	3.28084	Hour	0.041667	ft ³ /s	86400
cm	0.032808	Day	1	m ³ /d	35.39525
mm	0.003281			m ³ /s	3058149
PSI	2.31			liters/s	3058.149
				liters/min	50.96915
				cc/s	3.058149
Out Units =					
Convert =		1 Feet ² /Day			
Convert =		1 Feet/Day			

Casing dia. (dc) 2 Inch
Annulus dia. (dw) 8 Inch
Screen Length (L) 10 Feet

Depths to:
water level (DTW) 8.09 Feet
Top of Aquifer 10 Feet
Base of Aquifer 55 Feet
Annular Fill:
across screen -- Coarse Sand
above screen -- Bentonite
Aquifer Material -- Fine Sand

wetted hole 10 Feet
Aquifer thickness = 45 Feet
Aquifer thickness = 45 feet
Aquifer thickness = 45 Feet 1
Aquifer thickness = 45 Feet 45

Fraction penetrated = 0.222222

slope points 4.789474 0.267
 103.8571 1.172

FLOW RATE 3.00 GPM
FLOW RATE 577.5401 ft³/d

Rc = 0.083333 ft
Rw = 0.333333 ft

Slope = 0.67732 Feet /log₁₀
Slope = 0.67732 feet/log₁₀

T = 156 ft²/d
 156.0653 Feet²/Day 10
 160 Feet²/Day 16

K = 3.468117 ft/d
 3.468117 Feet/Day 0.1
K = 3.5 Feet/Day 35

Absolute Shut Down

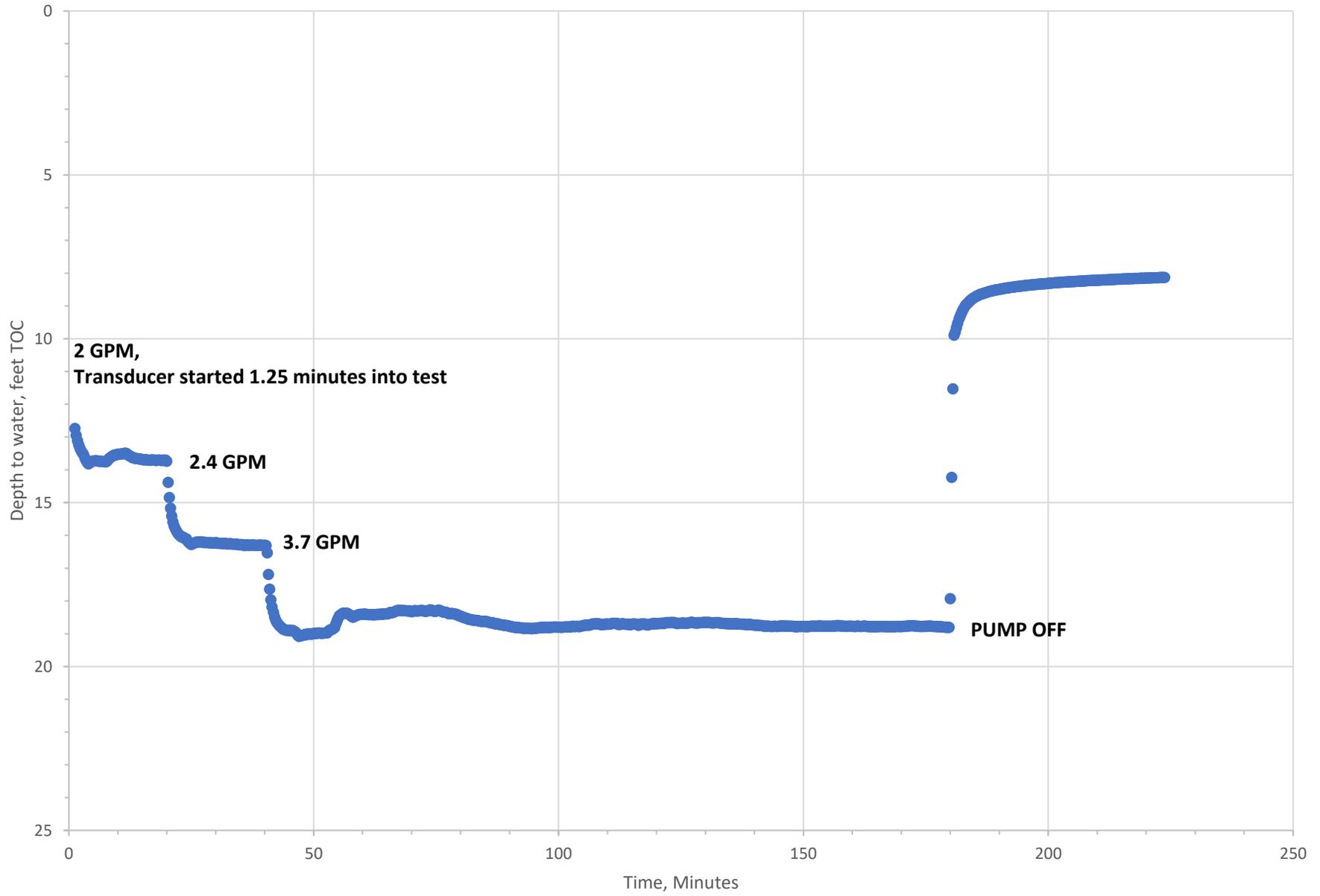
Input is consistent.

Decision	Option			
0	Water level is below Base of Aquifer			
0	Casing diameter is greater than the Annulus			
0	Top of Aquifer is deeper than Base of Aquifer			
0	Screen length is less than 1 Feet	1		
0	Slope will produce a negative K			
0	K = 3.5 is less than extreme minimum of 0.05 for Fine Sand	0.05	-2	0.05
0	K = 3.5 is greater than extreme maximum of 20 for Fine Sa	20	1	20
1	Input is consistent.			
	Error			

WARNING

Decision	Option			
0				
0	K = 3.5 is less than likely minimum of 3 for Fine Sand	3	0	3
0	K = 3.5 is greater than likely maximum of 20 for Fine Sand	20	1	20
1				

MW-34 Pumping Test



WELL ID: MW-34-Recovery

Local ID: MW-34

Date: 2/2/2017

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	8.05 Feet
Top of Aquifer	10 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	Fine Sand
FLOW RATE	3.7 GPM

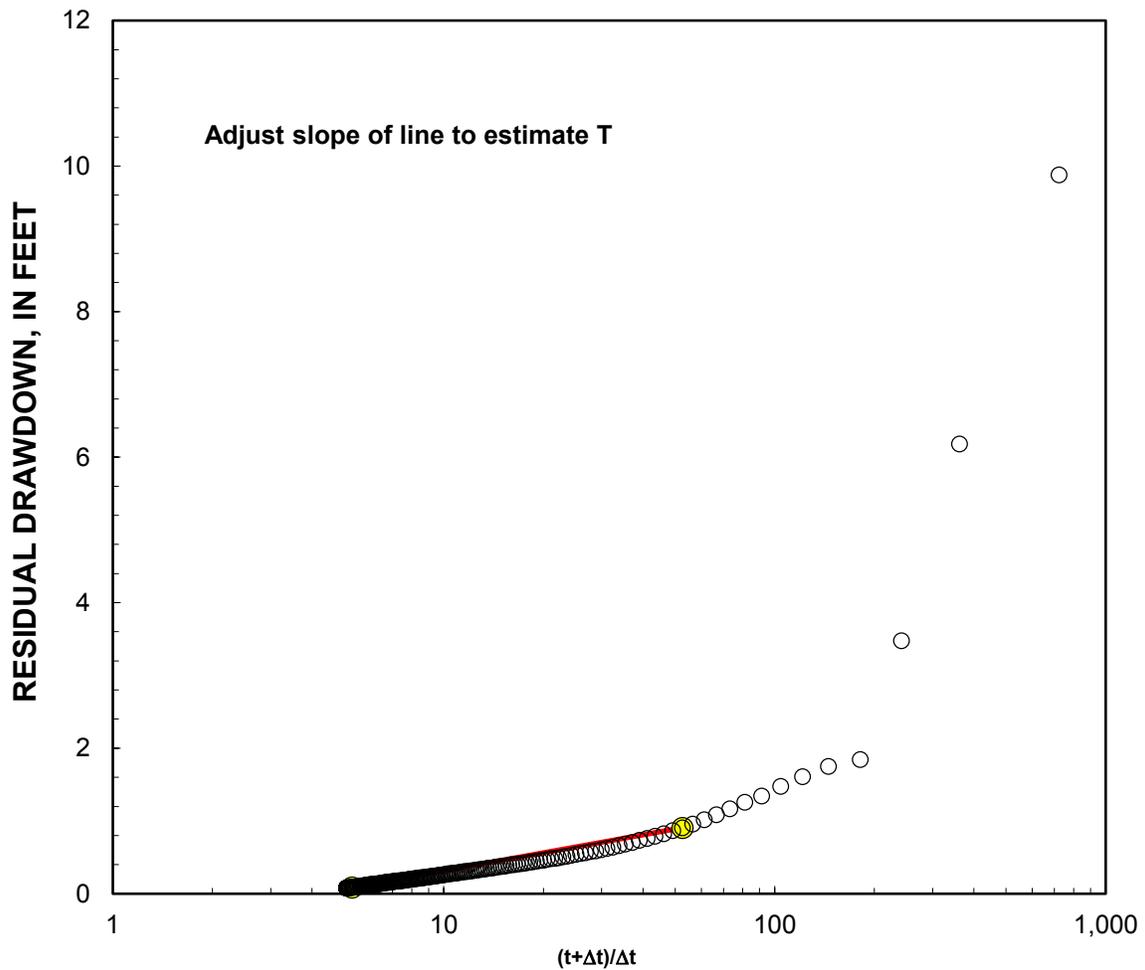
COMPUTED

Aquifer thickness = 45 Feet

Slope = 0.821019 Feet/log10

Input is consistent.

K =	3.5 Feet/Day
T =	160 Feet ² /Day



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Reduced Data					
	Time,	Water Level		Time,	Water Level
Entry	Date Hr:Min:Sec	Feet	Entry	Date Hr:Min:Sec	Feet
1	1/0/00 0:00:00	8.05	51	1/0/00 3:12:45	8.44
2	1/0/00 3:00:30	18.81	52	1/0/00 3:13:00	8.44
3	1/0/00 3:00:45	17.93	53	1/0/00 3:13:15	8.43
4	1/0/00 3:01:00	14.23	54	1/0/00 3:13:30	8.43
5	1/0/00 3:01:15	11.53	55	1/0/00 3:13:45	8.42
6	1/0/00 3:01:30	9.90	56	1/0/00 3:14:00	8.42
7	1/0/00 3:01:45	9.80	57	1/0/00 3:14:15	8.41
8	1/0/00 3:02:00	9.66	58	1/0/00 3:14:30	8.40
9	1/0/00 3:02:15	9.53	59	1/0/00 3:14:45	8.40
10	1/0/00 3:02:30	9.39	60	1/0/00 3:15:00	8.40
11	1/0/00 3:02:45	9.31	61	1/0/00 3:15:15	8.39
12	1/0/00 3:03:00	9.22	62	1/0/00 3:15:30	8.39
13	1/0/00 3:03:15	9.14	63	1/0/00 3:15:45	8.38
14	1/0/00 3:03:30	9.07	64	1/0/00 3:16:00	8.38
15	1/0/00 3:03:45	9.01	65	1/0/00 3:16:15	8.37
16	1/0/00 3:04:00	8.96	66	1/0/00 3:16:30	8.37
17	1/0/00 3:04:15	8.92	67	1/0/00 3:16:45	8.37
18	1/0/00 3:04:30	8.88	68	1/0/00 3:17:00	8.36
19	1/0/00 3:04:45	8.84	69	1/0/00 3:17:15	8.36
20	1/0/00 3:05:00	8.81	70	1/0/00 3:17:30	8.36
21	1/0/00 3:05:15	8.78	71	1/0/00 3:17:45	8.35
22	1/0/00 3:05:30	8.76	72	1/0/00 3:18:00	8.35
23	1/0/00 3:05:45	8.74	73	1/0/00 3:18:15	8.34
24	1/0/00 3:06:00	8.71	74	1/0/00 3:18:30	8.34
25	1/0/00 3:06:15	8.69	75	1/0/00 3:18:45	8.34
26	1/0/00 3:06:30	8.67	76	1/0/00 3:19:00	8.33
27	1/0/00 3:06:45	8.66	77	1/0/00 3:19:15	8.33
28	1/0/00 3:07:00	8.64	78	1/0/00 3:19:30	8.33
29	1/0/00 3:07:15	8.63	79	1/0/00 3:19:45	8.33
30	1/0/00 3:07:30	8.62	80	1/0/00 3:20:00	8.32
31	1/0/00 3:07:45	8.60	81	1/0/00 3:20:15	8.32
32	1/0/00 3:08:00	8.59	82	1/0/00 3:20:30	8.32
33	1/0/00 3:08:15	8.58	83	1/0/00 3:20:45	8.31
34	1/0/00 3:08:30	8.57	84	1/0/00 3:21:00	8.31
35	1/0/00 3:08:45	8.56	85	1/0/00 3:21:15	8.30
36	1/0/00 3:09:00	8.55	86	1/0/00 3:21:30	8.30
37	1/0/00 3:09:15	8.54	87	1/0/00 3:21:45	8.30
38	1/0/00 3:09:30	8.53	88	1/0/00 3:22:00	8.29
39	1/0/00 3:09:45	8.52	89	1/0/00 3:22:15	8.29
40	1/0/00 3:10:00	8.51	90	1/0/00 3:22:30	8.29
41	1/0/00 3:10:15	8.51	91	1/0/00 3:22:45	8.29
42	1/0/00 3:10:30	8.50	92	1/0/00 3:23:00	8.29
43	1/0/00 3:10:45	8.49	93	1/0/00 3:23:15	8.28
44	1/0/00 3:11:00	8.48	94	1/0/00 3:23:30	8.28
45	1/0/00 3:11:15	8.48	95	1/0/00 3:23:45	8.28
46	1/0/00 3:11:30	8.47	96	1/0/00 3:24:00	8.27
47	1/0/00 3:11:45	8.46	97	1/0/00 3:24:15	8.27
48	1/0/00 3:12:00	8.46	98	1/0/00 3:24:30	8.27
49	1/0/00 3:12:15	8.45	99	1/0/00 3:24:45	8.27
50	1/0/00 3:12:30	8.45	100	1/0/00 3:25:00	8.26

Absolute Shut Down

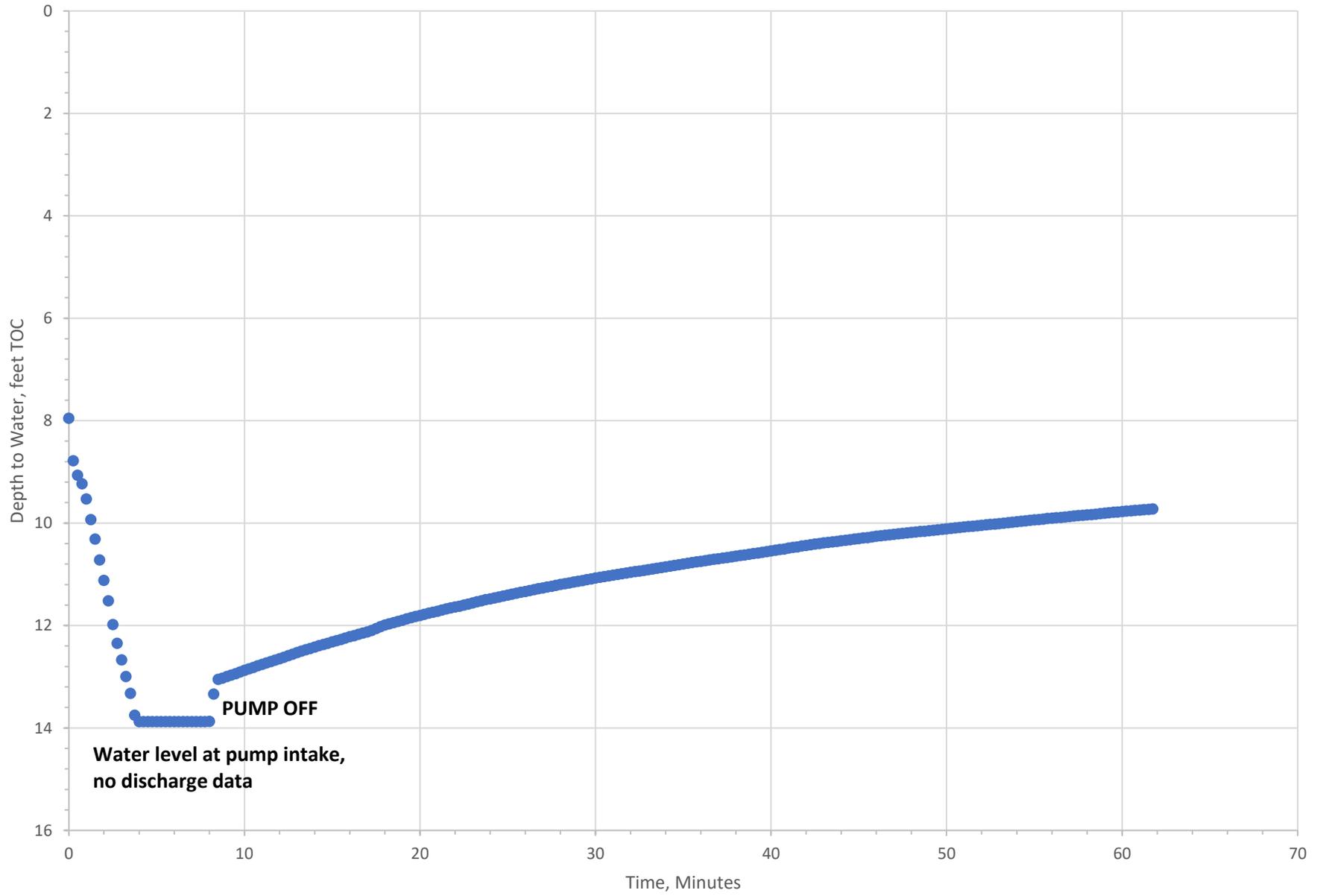
Input is consistent.

Decision	Option			
0	Water level is below Base of Aquifer			
0	Casing diameter is greater than the Annulus			
0	Top of Aquifer is deeper than Base of Aquifer			
0	Screen length is less than 1 Feet	1		
0	Slope will produce a negative K			
0	K= 3.5 is less than extreme minimum of 0.05 for Fine Sand	0.05	-2	0.05
0	K= 3.5 is greater than extreme maximum of 20 for Fine Sand	20	1	20
1	Input is consistent.			
	Error			

WARNING

Decision	Option			
0				
0	K= 3.5 is less than likely minimum of 3 for Fine Sand	3	0	3
0	K= 3.5 is greater than likely maximum of 20 for Fine Sand	20	1	20
1				

MW-25 Pumping Test



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Vol. 8 No. 2

BOUWER AND RICE SLUG-TEST METHOD & SINGLE WELL SOLUTIONS

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Bouwer and Rice Slug-Test Method

Bouwer and Rice (1976) developed a method of determining the hydraulic conductivity of an unconfined aquifer. This method can be used for both fully and partially penetrating wells. While originally developed for unconfined aquifers, it has been found that it can also be used in confined aquifers, provided the top of the well screen is some distance below the bottom of the upper confining layer.

The equations used to determine the hydraulic conductivity with the Bouwer and Rice method are as follows:

$$K = \frac{r_e^2 \ln(R_e/r_w)}{2L_e} \frac{1}{t} \ln\left(\frac{h_0}{h}\right)$$

where :

K is hydraulic conductivity (L/T)

r_e is the radius of the well casing (L)

r_w is the radius of the well (including gravel envelope) (L)

R_e is the radial distance over which head is dissipated (L)

L_e is the length of the screen (L)

t is the time since $h=h_0$ (T)

h₀ is the drawdown at time $t=0$ (L)

h is the drawdown at time $t=t$ (L)

Bouwer has presented a method of estimating $\ln(R_e/r_w)$:

For partially penetrating wells:

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{A + B \ln[(b - L_w)/r_w]}{L_e/r_w} \right]^{-1}$$

For fully penetrating wells:

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

where:

L_w is the length of the well in the aquifer

b is the thickness of the saturated material

A, B, C are dimensionless numbers represented in the following diagram:

February 24, 2017

RISC5 & RBCA Tool
Kit
(Risk Assessment)

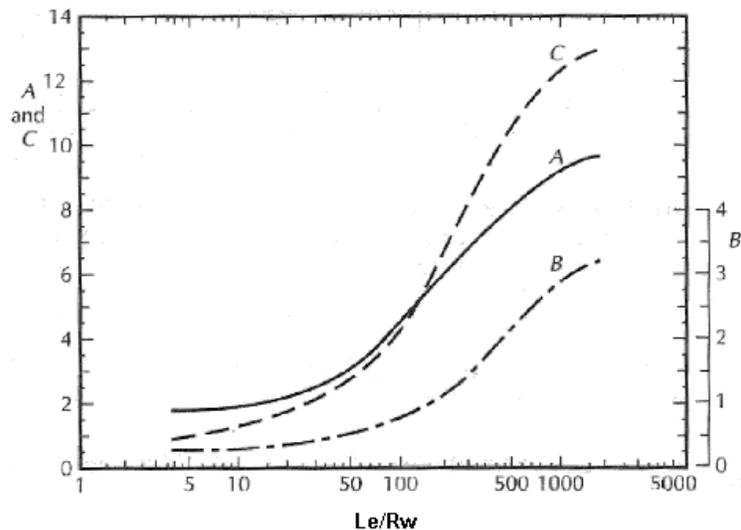


YSI ProPlus
(multiparameter)



Solinst Levelloggers



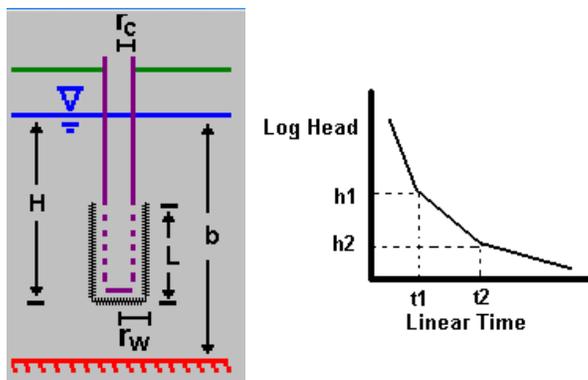


There are many programs available for analyzing slug tests results, including [Single Well Solutions](#)

Bouwer and Rice Slug Test

Calculating conductivity using the Bouwer and Rice slug test method

Graphical Display of Inputs



h_1 (head at time $t=t_1$):

h_2 (head at time $t=t_2$):

t_1 (time at head h_1):

t_2 (time at head h_2):

[How to get this data](#)

Well Type:

b (Aquifer saturated thickness):

H (distance from water table to bottom of pack):

L (length of the screened interval):

r_c (radius of casing):

r_w (radius of well):

****KEEP UNITS CONSISTENT****

Results

Conductivity:

References

Batu, V. (1998). Aquifer Hydraulics; A Comprehensive Guide to Hydrogeologic Data Analysis. Published by John Wiley & Sons, Inc. New York, NY.

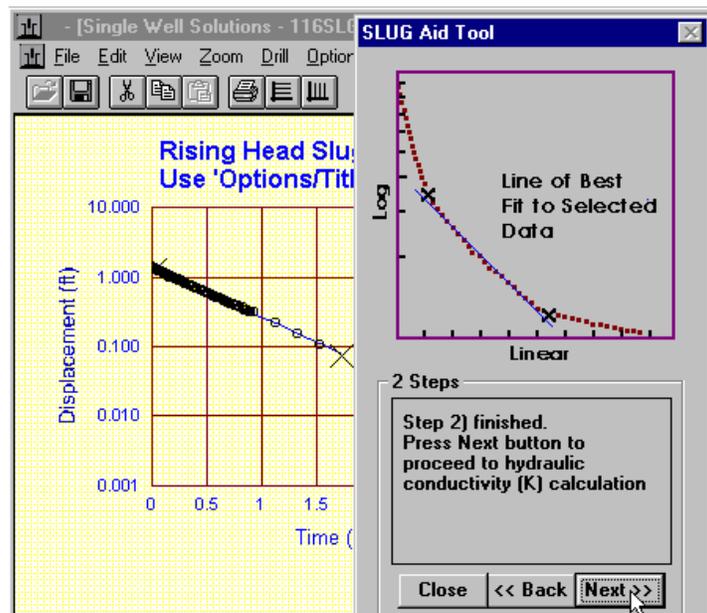
Fetter, C.W. (1994). Applied Hydrogeology; Third Edition. Published by Prentice-Hall, Inc., Englewood Cliffs, NJ.

Schwartz, F.W. and Zhang, H. (2003). Fundamentals of Groundwater. Published by John Wiley & Sons, Inc. New York, NY.

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Single Well Solution

Single Well Solutions is a powerful Windows software product that contains a collection of the most popular analytical solutions from "Analysis and Evaluation of Pumping Test Data," by G.P. Kruseman and N.A. deRidder, second edition (1990), for determining aquifer hydraulic conductivity and pumping well efficiency from single well test data



Wide selection of analysis methods

Single Well Solutions is capable of analyzing single well test data with a variety of methods. These methods include:

Slug Tests:

- Bouwer and Rice (1976)
- Cooper et al. (1967)

Constant Discharge

- Hurr and Worthington (1981)
- Hantush (1964)

Variable Discharge

- Bisroy and Summers (1980) (both Intermittent and Uninterrupted Pumping)

Step Drawdown

- Hantush and Bierschenk (1964)

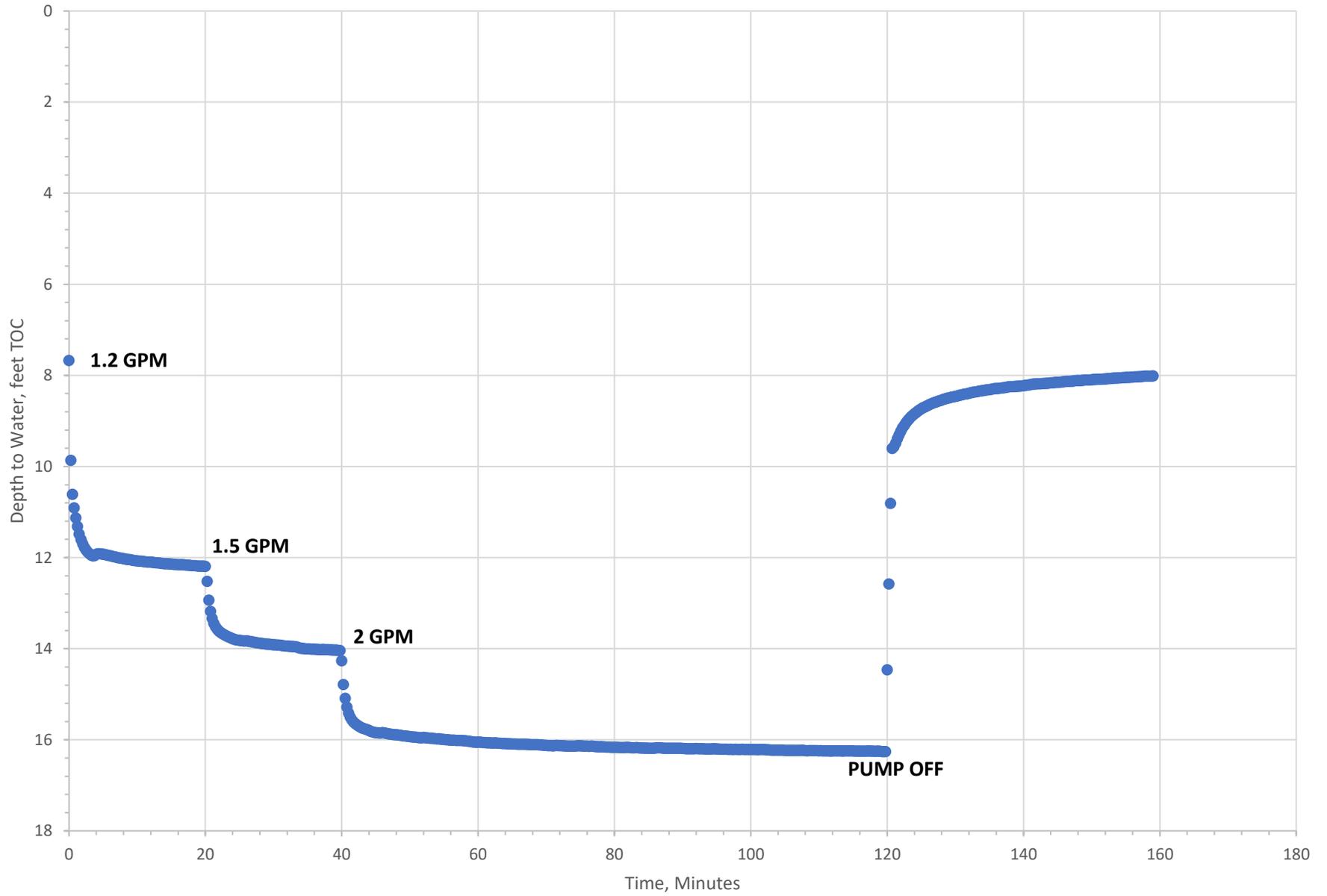
Constant Discharge Recovery

- Theis (1935)

For more info click here: [Single Well Solutions](#)

To demo software click here: [Demo](#)

MW- 26 Pumping Test



WELL ID: MW-26-Recovery

Local ID: MW-25

Date: 2/2/2017

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	7.67 Feet
Top of Aquifer	10 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	Fine Sand
FLOW RATE	2 GPM

COMPUTED

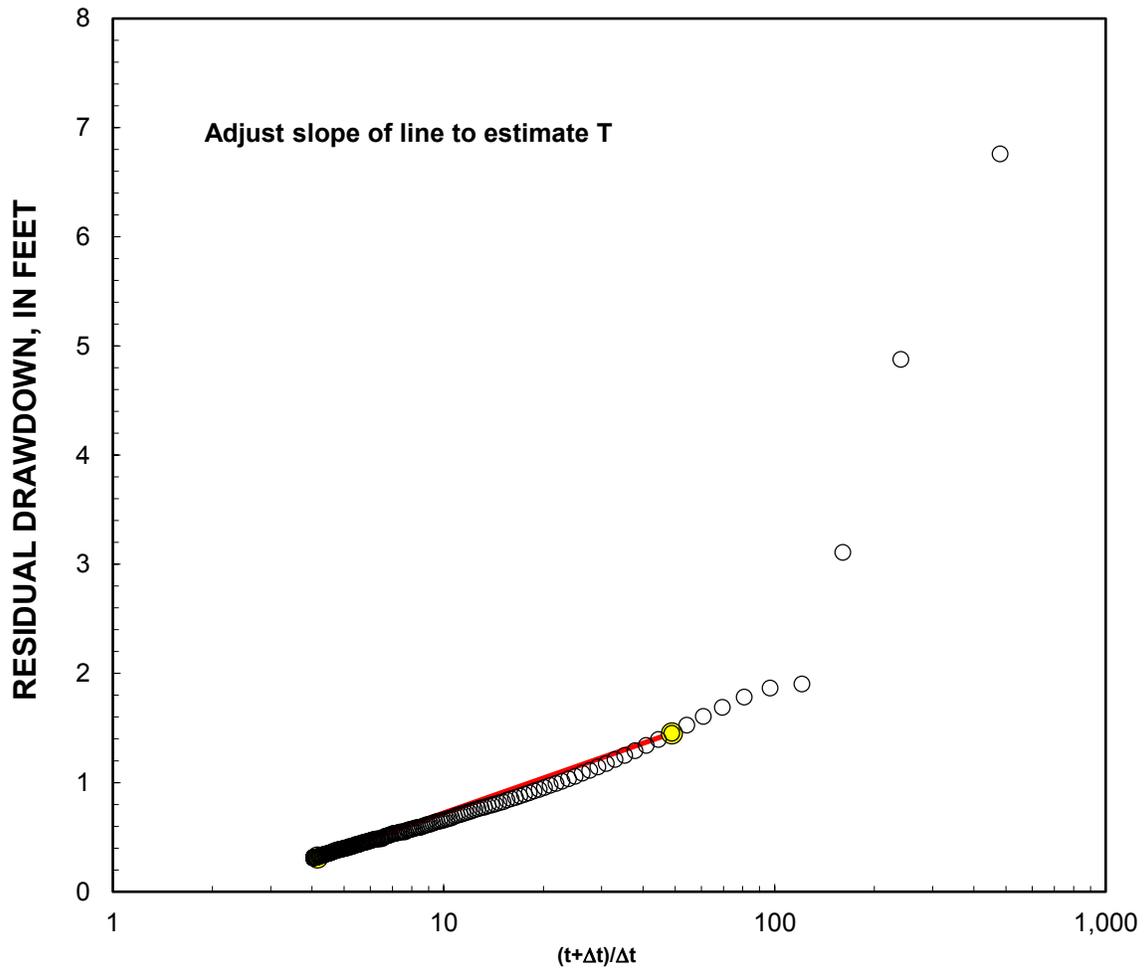
Aquifer thickness = 45 Feet

Slope = 1.060569 Feet/log10

Input is consistent.

K =	1.5 Feet/Day
T =	66 Feet ² /Day

K= 1.5 is less than likely minimum of 3 for Fine Sand



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Reduced Data					
	Time,	Water Level		Time,	Water Level
Entry	Date Hr:Min:Sec	Feet	Entry	Date Hr:Min:Sec	Feet
1	1/0/00 0:00:00	7.70	51	1/0/00 2:12:00	8.39
2	1/0/00 1:59:45	16.26	52	1/0/00 2:12:15	8.38
3	1/0/00 2:00:00	14.46	53	1/0/00 2:12:30	8.37
4	1/0/00 2:00:15	12.58	54	1/0/00 2:12:45	8.37
5	1/0/00 2:00:30	10.81	55	1/0/00 2:13:00	8.36
6	1/0/00 2:00:45	9.60	56	1/0/00 2:13:15	8.35
7	1/0/00 2:01:00	9.57	57	1/0/00 2:13:30	8.35
8	1/0/00 2:01:15	9.48	58	1/0/00 2:13:45	8.34
9	1/0/00 2:01:30	9.39	59	1/0/00 2:14:00	8.34
10	1/0/00 2:01:45	9.31	60	1/0/00 2:14:15	8.33
11	1/0/00 2:02:00	9.23	61	1/0/00 2:14:30	8.32
12	1/0/00 2:02:15	9.15	62	1/0/00 2:14:45	8.32
13	1/0/00 2:02:30	9.10	63	1/0/00 2:15:00	8.31
14	1/0/00 2:02:45	9.04	64	1/0/00 2:15:15	8.30
15	1/0/00 2:03:00	8.99	65	1/0/00 2:15:30	8.30
16	1/0/00 2:03:15	8.95	66	1/0/00 2:15:45	8.29
17	1/0/00 2:03:30	8.91	67	1/0/00 2:16:00	8.29
18	1/0/00 2:03:45	8.88	68	1/0/00 2:16:15	8.29
19	1/0/00 2:04:00	8.84	69	1/0/00 2:16:30	8.28
20	1/0/00 2:04:15	8.81	70	1/0/00 2:16:45	8.28
21	1/0/00 2:04:30	8.79	71	1/0/00 2:17:00	8.27
22	1/0/00 2:04:45	8.76	72	1/0/00 2:17:15	8.27
23	1/0/00 2:05:00	8.74	73	1/0/00 2:17:30	8.26
24	1/0/00 2:05:15	8.71	74	1/0/00 2:17:45	8.25
25	1/0/00 2:05:30	8.69	75	1/0/00 2:18:00	8.25
26	1/0/00 2:05:45	8.68	76	1/0/00 2:18:15	8.25
27	1/0/00 2:06:00	8.66	77	1/0/00 2:18:30	8.25
28	1/0/00 2:06:15	8.64	78	1/0/00 2:18:45	8.24
29	1/0/00 2:06:30	8.62	79	1/0/00 2:19:00	8.24
30	1/0/00 2:06:45	8.61	80	1/0/00 2:19:15	8.24
31	1/0/00 2:07:00	8.59	81	1/0/00 2:19:30	8.24
32	1/0/00 2:07:15	8.58	82	1/0/00 2:19:45	8.23
33	1/0/00 2:07:30	8.57	83	1/0/00 2:20:00	8.23
34	1/0/00 2:07:45	8.55	84	1/0/00 2:20:15	8.22
35	1/0/00 2:08:00	8.54	85	1/0/00 2:20:30	8.22
36	1/0/00 2:08:15	8.53	86	1/0/00 2:20:45	8.21
37	1/0/00 2:08:30	8.52	87	1/0/00 2:21:00	8.21
38	1/0/00 2:08:45	8.50	88	1/0/00 2:21:15	8.20
39	1/0/00 2:09:00	8.50	89	1/0/00 2:21:30	8.19
40	1/0/00 2:09:15	8.49	90	1/0/00 2:21:45	8.19
41	1/0/00 2:09:30	8.48	91	1/0/00 2:22:00	8.19
42	1/0/00 2:09:45	8.47	92	1/0/00 2:22:15	8.18
43	1/0/00 2:10:00	8.46	93	1/0/00 2:22:30	8.18
44	1/0/00 2:10:15	8.45	94	1/0/00 2:22:45	8.18
45	1/0/00 2:10:30	8.44	95	1/0/00 2:23:00	8.18
46	1/0/00 2:10:45	8.43	96	1/0/00 2:23:15	8.18
47	1/0/00 2:11:00	8.43	97	1/0/00 2:23:30	8.17
48	1/0/00 2:11:15	8.42	98	1/0/00 2:23:45	8.17
49	1/0/00 2:11:30	8.41	99	1/0/00 2:24:00	8.17
50	1/0/00 2:11:45	8.40	100	1/0/00 2:24:15	8.16

Absolute Shut Down

Input is consistent.

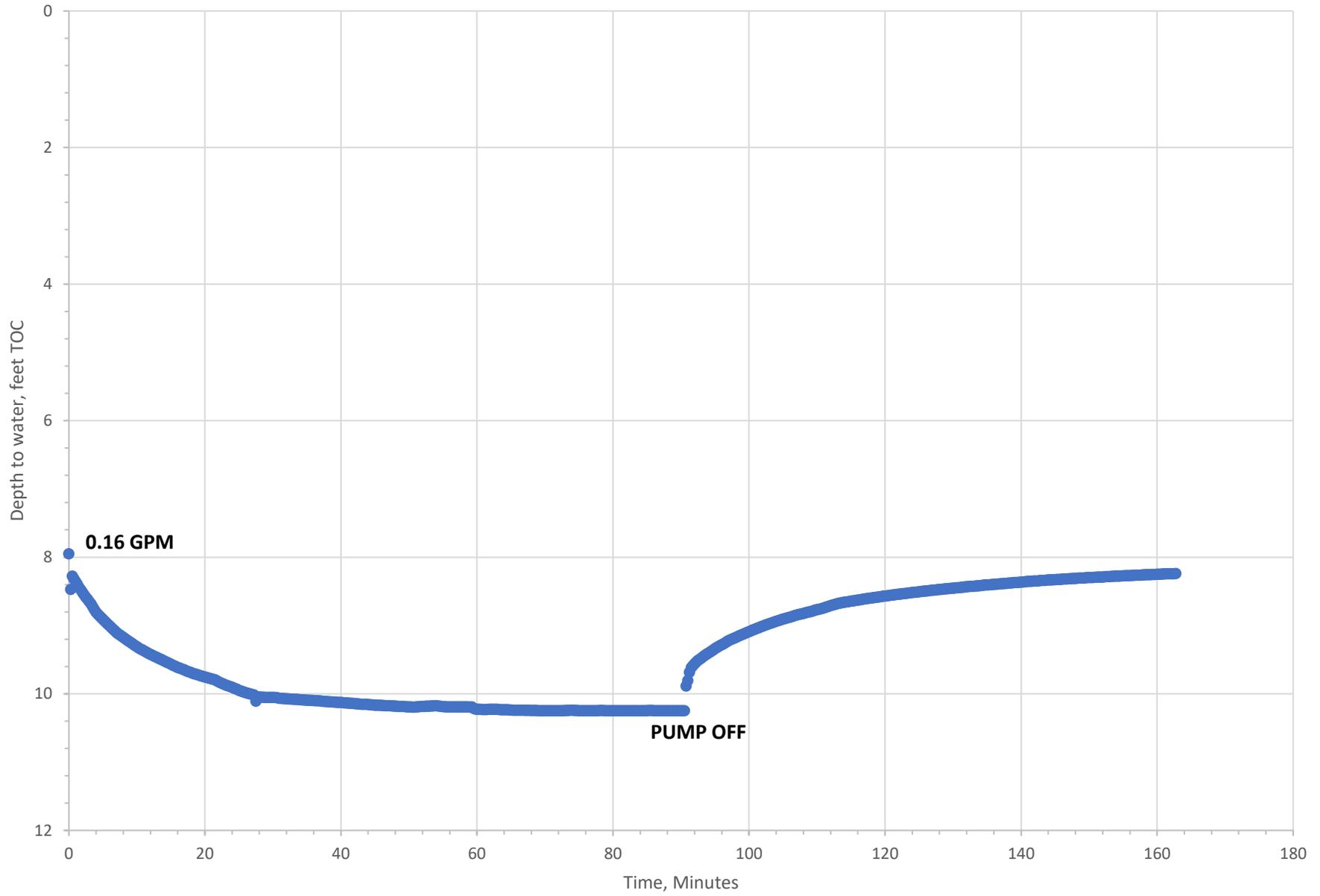
Decision	Option			
0	Water level is below Base of Aquifer			
0	Casing diameter is greater than the Annulus			
0	Top of Aquifer is deeper than Base of Aquifer			
0	Screen length is less than 1 Feet	1		
0	Slope will produce a negative K			
0	K= 1.5 is less than extreme minimum of 0.05 for Fine Sand	0.05	-2	0.05
0	K= 1.5 is greater than extreme maximum of 20 for Fine Sand	20	1	20
1	Input is consistent.			
	Error			

WARNING

K= 1.5 is less than likely minimum of 3 for Fine Sand

Decision	Option			
0				
1	K= 1.5 is less than likely minimum of 3 for Fine Sand	3	0	3
1	K= 1.5 is greater than likely maximum of 20 for Fine Sand	20	1	20
2				

MW-27 Pumping Test



0.16 GPM

PUMP OFF

WELL ID: MW-27-Recovery

Local ID: MW-27

Date: 2/1/2017

Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	7.95 Feet
Top of Aquifer	10 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	
FLOW RATE	0.16 GPM

COMPUTED

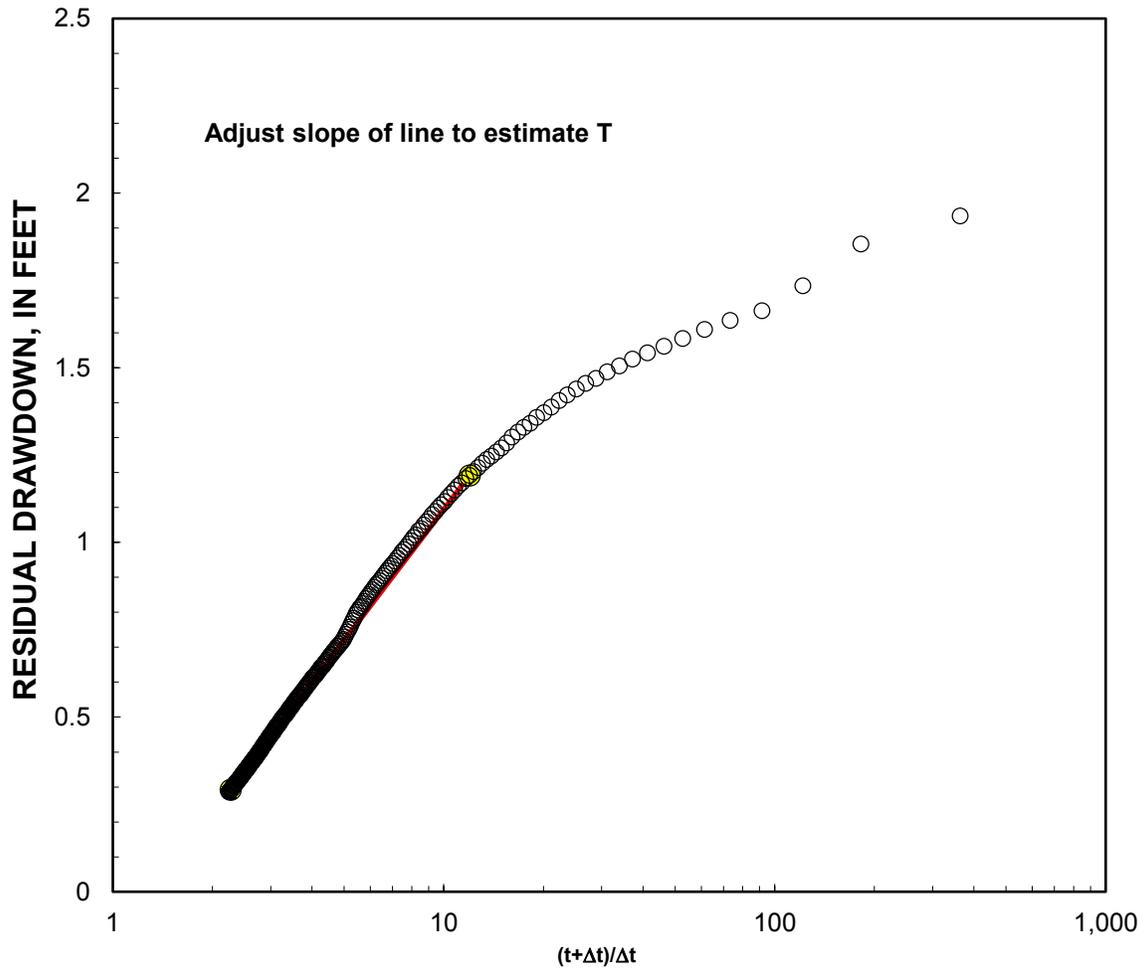
Aquifer thickness = 45 Feet

Slope = 1.246496 Feet/log10

Input is consistent.

K =	0.1 Feet/Day
T =	4.5 Feet ² /Day

K= 0.1 is less than likely minimum of 3 for Fine Sand



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Reduced Data					
Entry	Time, Date Hr:Min:Sec	Water Level Feet	Entry	Time, Date Hr:Min:Sec	Water Level Feet
1	1/0/00 0:00:00	7.95	51	1/0/00 1:55:15	8.64
2	1/0/00 1:30:45	9.89	52	1/0/00 1:55:45	8.63
3	1/0/00 1:31:15	9.69	53	1/0/00 1:56:15	8.62
4	1/0/00 1:31:45	9.59	54	1/0/00 1:56:45	8.61
5	1/0/00 1:32:15	9.53	55	1/0/00 1:57:15	8.61
6	1/0/00 1:32:45	9.49	56	1/0/00 1:57:45	8.60
7	1/0/00 1:33:15	9.46	57	1/0/00 1:58:15	8.59
8	1/0/00 1:33:45	9.42	58	1/0/00 1:58:45	8.58
9	1/0/00 1:34:15	9.39	59	1/0/00 1:59:15	8.58
10	1/0/00 1:34:45	9.36	60	1/0/00 1:59:45	8.57
11	1/0/00 1:35:15	9.32	61	1/0/00 2:00:15	8.57
12	1/0/00 1:35:45	9.29	62	1/0/00 2:00:45	8.56
13	1/0/00 1:36:15	9.27	63	1/0/00 2:01:15	8.55
14	1/0/00 1:36:45	9.24	64	1/0/00 2:01:45	8.54
15	1/0/00 1:37:15	9.21	65	1/0/00 2:02:15	8.54
16	1/0/00 1:37:45	9.19	66	1/0/00 2:02:45	8.53
17	1/0/00 1:38:15	9.17	67	1/0/00 2:03:15	8.53
18	1/0/00 1:38:45	9.14	68	1/0/00 2:03:45	8.52
19	1/0/00 1:39:15	9.12	69	1/0/00 2:04:15	8.51
20	1/0/00 1:39:45	9.10	70	1/0/00 2:04:45	8.51
21	1/0/00 1:40:15	9.08	71	1/0/00 2:05:15	8.50
22	1/0/00 1:40:45	9.06	72	1/0/00 2:05:45	8.50
23	1/0/00 1:41:15	9.04	73	1/0/00 2:06:15	8.49
24	1/0/00 1:41:45	9.02	74	1/0/00 2:06:45	8.49
25	1/0/00 1:42:15	9.00	75	1/0/00 2:07:15	8.48
26	1/0/00 1:42:45	8.98	76	1/0/00 2:07:45	8.48
27	1/0/00 1:43:15	8.97	77	1/0/00 2:08:15	8.47
28	1/0/00 1:43:45	8.95	78	1/0/00 2:08:45	8.46
29	1/0/00 1:44:15	8.93	79	1/0/00 2:09:15	8.46
30	1/0/00 1:44:45	8.91	80	1/0/00 2:09:45	8.46
31	1/0/00 1:45:15	8.90	81	1/0/00 2:10:15	8.45
32	1/0/00 1:45:45	8.88	82	1/0/00 2:10:45	8.45
33	1/0/00 1:46:15	8.87	83	1/0/00 2:11:15	8.44
34	1/0/00 1:46:45	8.86	84	1/0/00 2:11:45	8.43
35	1/0/00 1:47:15	8.84	85	1/0/00 2:12:15	8.43
36	1/0/00 1:47:45	8.83	86	1/0/00 2:12:45	8.43
37	1/0/00 1:48:15	8.82	87	1/0/00 2:13:15	8.42
38	1/0/00 1:48:45	8.80	88	1/0/00 2:13:45	8.42
39	1/0/00 1:49:15	8.79	89	1/0/00 2:14:15	8.41
40	1/0/00 1:49:45	8.78	90	1/0/00 2:14:45	8.41
41	1/0/00 1:50:15	8.76	91	1/0/00 2:15:15	8.40
42	1/0/00 1:50:45	8.75	92	1/0/00 2:15:45	8.40
43	1/0/00 1:51:15	8.73	93	1/0/00 2:16:15	8.39
44	1/0/00 1:51:45	8.72	94	1/0/00 2:16:45	8.39
45	1/0/00 1:52:15	8.70	95	1/0/00 2:17:15	8.39
46	1/0/00 1:52:45	8.69	96	1/0/00 2:17:45	8.38
47	1/0/00 1:53:15	8.67	97	1/0/00 2:18:15	8.38
48	1/0/00 1:53:45	8.66	98	1/0/00 2:18:45	8.37
49	1/0/00 1:54:15	8.65	99	1/0/00 2:19:15	8.37
50	1/0/00 1:54:45	8.65	100	1/0/00 2:19:45	8.37

Inch	0.083333	Second	1.16E-05	GPM	192.5134
Feet		1 Minute	0.000694	ft3/d	1
Meter	3.28084	Hour	0.041667	ft3/s	86400
cm	0.032808	Day	1	m3/d	35.39525
mm	0.003281			m3/s	3058149
PSI	2.31			liters/s	3058.149
				liters/min	50.96915
				cc/s	3.058149
Out Units =					
Convert =		1 Feet2/Day			
Convert =		1 Feet/Day			

Casing dia. (dc) 2 Inch
Annulus dia. (dw) 8 Inch
Screen Length (L) 10 Feet

Depths to:
water level (DTW) 7.95 Feet
Top of Aquifer 10 Feet
Base of Aquifer 55 Feet
Annular Fill:
across screen -- Coarse Sand
above screen -- Bentonite
Aquifer Material -- Fine Sand

wetted hole 10 Feet
Aquifer thickness = 45 Feet
Aquifer thickness = 45 feet
Aquifer thickness = 45 Feet 1
Aquifer thickness = 45 Feet 45

Fraction penetrated = 0.222222

slope points 11.9697 1.192
 2.270175 0.292

FLOW RATE 0.16 GPM
FLOW RATE 30.80214 ft³/d

Rc = 0.083333 ft
Rw = 0.333333 ft

Slope = 1.246496 Feet /log₁₀
Slope = 1.246496 feet/log₁₀

T = 5 ft2/d
 4.522804 Feet2/Day 0.1
 4.5 Feet2/Day 45

K = 0.100507 ft/d
 0.100507 Feet/Day 0.01
K = 0.1 Feet/Day 10

Absolute Shut Down

Input is consistent.

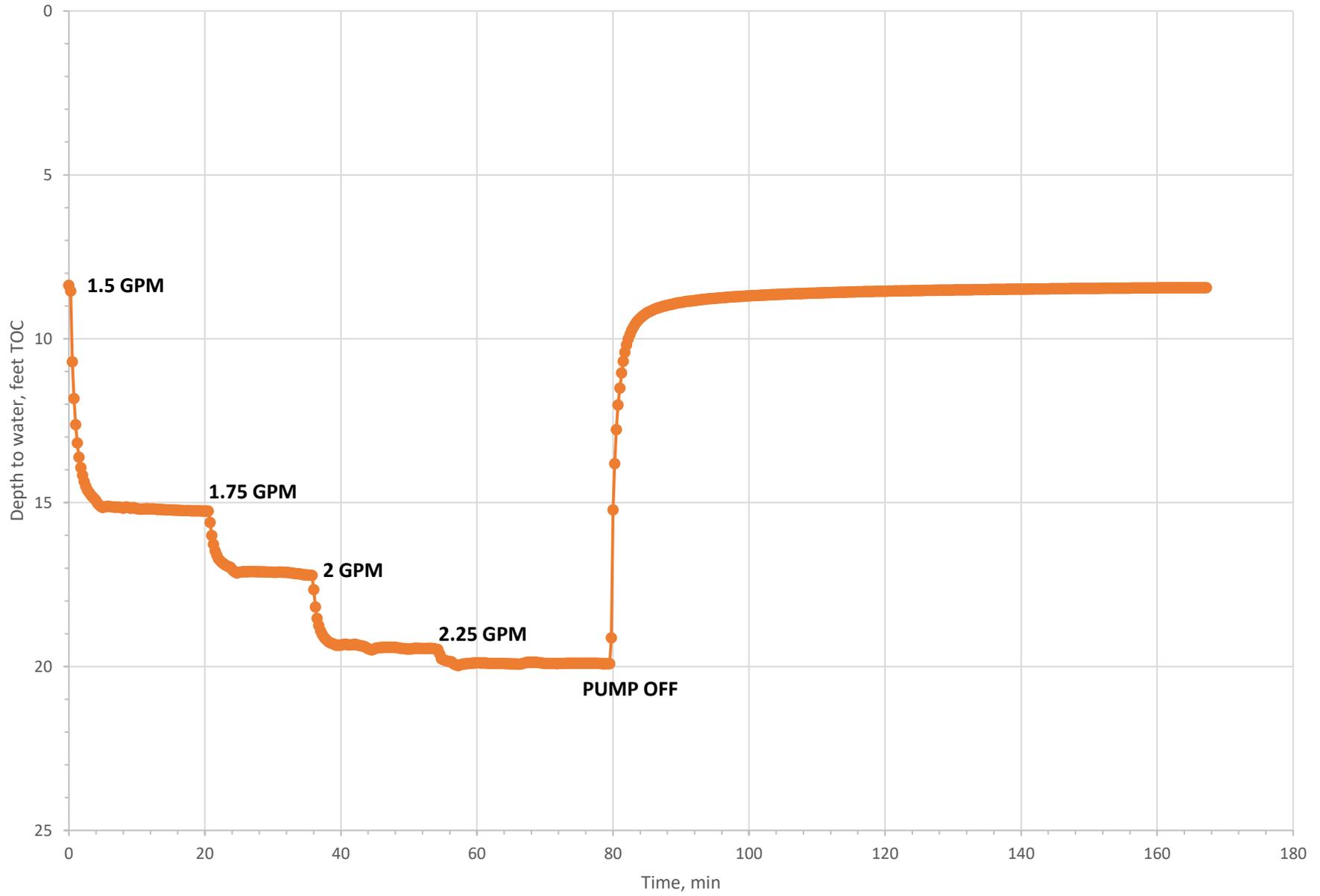
Decision	Option			
	0 Water level is below Base of Aquifer			
	0 Casing diameter is greater than the Annulus			
	0 Top of Aquifer is deeper than Base of Aquifer			
	0 Screen length is less than 1 Feet	1		
	0 Slope will produce a negative K			
	0 K = 0.1 is less than extreme minimum of 0.05 for Fine Sand	0.05	-2	0.05
	0 K = 0.1 is greater than extreme maximum of 20 for Fine Sa	20	1	20
	1 Input is consistent.			
	Error			

WARNING

K= 0.1 is less than likely minimum of 3 for Fine Sand

Decision	Option			
	0			
	1 K = 0.1 is less than likely minimum of 3 for Fine Sand	3	0	3
	1 K = 0.1 is greater than likely maximum of 20 for Fine Sand	20	1	20
	2			

MW-28



WELL ID: MW-28

Local ID: Hypo-1
 Date: 4/4/2001
 Time: 0:00

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	8.37 Feet
Top of Aquifer	8 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	
FLOW RATE	2.25 GPM

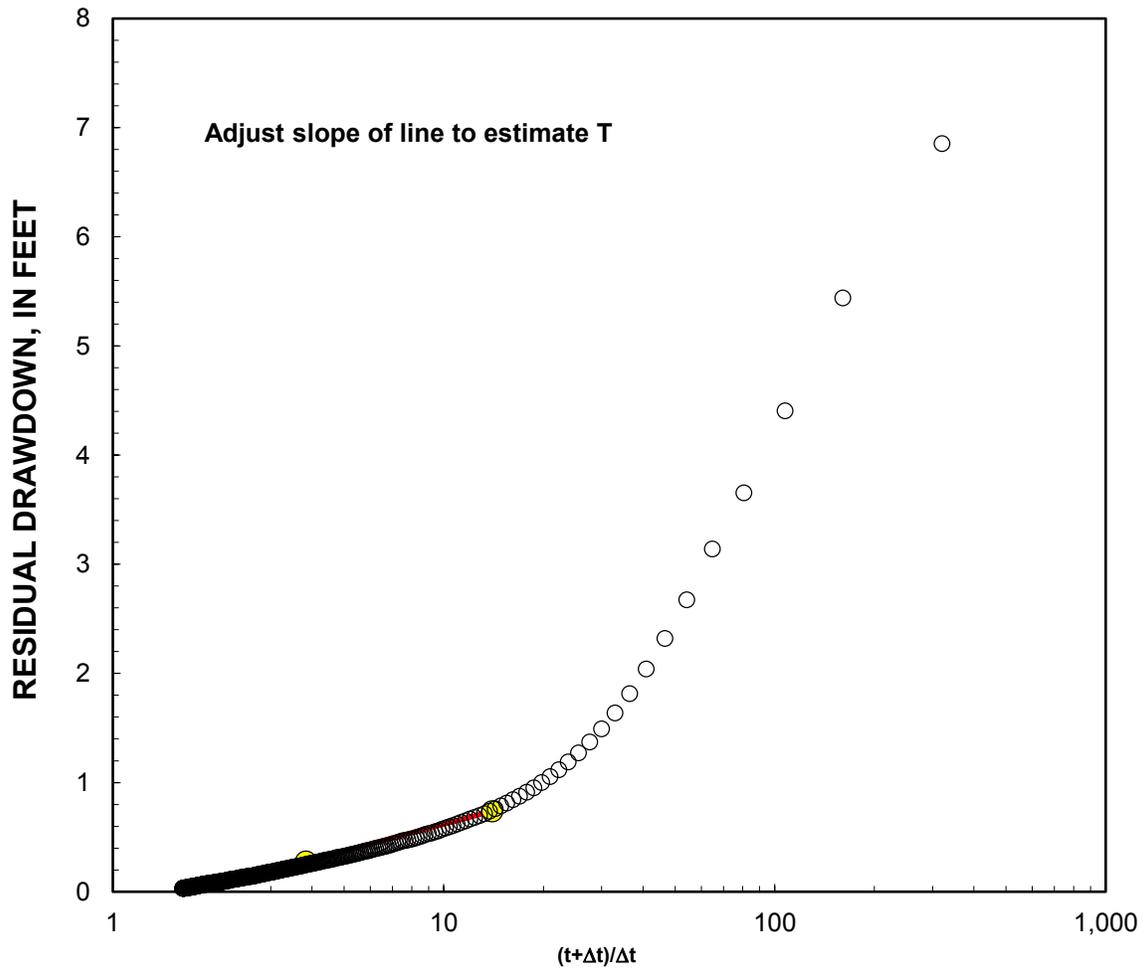
COMPUTED

Aquifer thickness = 47 Feet
 Slope = 0.813601 Feet/log10

Input is consistent.

K =	2.1 Feet/Day
T =	97 Feet ² /Day

K= 2.1 is less than likely minimum of 3 for Fine Sand



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Pumping_Cooper-Jacob_RECOVERY MW-28

Reduced Data					
	Time,	Water Level		Time,	Water Level
Entry	Date Hr:Min:Sec	Feet	Entry	Date Hr:Min:Sec	Feet
1	1/0/00 0:00:00	0.00	51	1/0/00 2:22:00	0.11
2	1/0/00 1:20:45	3.65	52	1/0/00 2:23:15	0.11
3	1/0/00 1:22:00	1.82	53	1/0/00 2:24:30	0.10
4	1/0/00 1:23:15	1.19	54	1/0/00 2:25:45	0.10
5	1/0/00 1:24:30	0.91	55	1/0/00 2:27:00	0.10
6	1/0/00 1:25:45	0.76	56	1/0/00 2:28:15	0.10
7	1/0/00 1:27:00	0.67	57	1/0/00 2:29:30	0.10
8	1/0/00 1:28:15	0.59	58	1/0/00 2:30:45	0.09
9	1/0/00 1:29:30	0.54	59	1/0/00 2:32:00	0.09
10	1/0/00 1:30:45	0.50	60	1/0/00 2:33:15	0.09
11	1/0/00 1:32:00	0.47	61	1/0/00 2:34:30	0.09
12	1/0/00 1:33:15	0.43	62	1/0/00 2:35:45	0.09
13	1/0/00 1:34:30	0.40	63	1/0/00 2:37:00	0.08
14	1/0/00 1:35:45	0.38	64	1/0/00 2:38:15	0.08
15	1/0/00 1:37:00	0.36	65	1/0/00 2:39:30	0.08
16	1/0/00 1:38:15	0.34	66	1/0/00 2:40:45	0.08
17	1/0/00 1:39:30	0.33	67	1/0/00 2:42:00	0.08
18	1/0/00 1:40:45	0.31	68	1/0/00 2:43:15	0.07
19	1/0/00 1:42:00	0.30	69	1/0/00 2:44:30	0.07
20	1/0/00 1:43:15	0.29	70	1/0/00 2:45:45	0.07
21	1/0/00 1:44:30	0.28	71	1/0/00 2:47:00	0.07
22	1/0/00 1:45:45	0.26	72	1/0/00 2:48:15	0.07
23	1/0/00 1:47:00	0.26	73	1/0/00 2:49:30	0.07
24	1/0/00 1:48:15	0.25	74	1/0/00 2:50:45	0.07
25	1/0/00 1:49:30	0.24	75	1/0/00 2:52:00	0.07
26	1/0/00 1:50:45	0.23	76	1/0/00 2:53:15	0.06
27	1/0/00 1:52:00	0.22	77	1/0/00 2:54:30	0.06
28	1/0/00 1:53:15	0.21	78	1/0/00 2:55:45	0.06
29	1/0/00 1:54:30	0.21	79	1/0/00 2:57:00	0.06
30	1/0/00 1:55:45	0.20	80	1/0/00 2:58:15	0.06
31	1/0/00 1:57:00	0.19	81	1/0/00 2:59:30	0.06
32	1/0/00 1:58:15	0.19	82	1/0/00 3:00:45	0.06
33	1/0/00 1:59:30	0.18	83	1/0/00 3:02:00	0.05
34	1/0/00 2:00:45	0.18	84	1/0/00 3:03:15	0.05
35	1/0/00 2:02:00	0.17	85	1/0/00 3:04:30	0.05
36	1/0/00 2:03:15	0.16	86	1/0/00 3:05:45	0.05
37	1/0/00 2:04:30	0.16	87	1/0/00 3:07:00	0.05
38	1/0/00 2:05:45	0.15	88	1/0/00 3:08:15	0.05
39	1/0/00 2:07:00	0.15	89	1/0/00 3:09:30	0.05
40	1/0/00 2:08:15	0.15	90	1/0/00 3:10:45	0.04
41	1/0/00 2:09:30	0.15	91	1/0/00 3:12:00	0.04
42	1/0/00 2:10:45	0.14	92	1/0/00 3:13:15	0.04
43	1/0/00 2:12:00	0.14	93	1/0/00 3:14:30	0.04
44	1/0/00 2:13:15	0.13	94	1/0/00 3:15:45	0.04
45	1/0/00 2:14:30	0.13	95	1/0/00 3:17:00	0.04
46	1/0/00 2:15:45	0.13	96	1/0/00 3:18:15	0.04
47	1/0/00 2:17:00	0.12	97	1/0/00 3:19:30	0.04
48	1/0/00 2:18:15	0.12	98	1/0/00 3:20:45	0.04
49	1/0/00 2:19:30	0.12	99	1/0/00 3:22:00	0.04
50	1/0/00 2:20:45	0.11	100	#N/A	#N/A

Inch	0.083333	Second	1.16E-05	GPM	192.5134
Feet		1 Minute	0.000694	ft3/d	1
Meter	3.28084	Hour	0.041667	ft3/s	86400
cm	0.032808	Day	1	m3/d	35.39525
mm	0.003281			m3/s	3058149
PSI	2.31			liters/s	3058.149
				liters/min	50.96915
				cc/s	3.058149
Out Units =					
Convert =		1 Feet2/Day			
Convert =		1 Feet/Day			

Casing dia. (dc) 2 Inch
Annulus dia. (dw) 8 Inch
Screen Length (L) 10 Feet

Depths to:
water level (DTW) 8.37 Feet
Top of Aquifer 8 Feet
Base of Aquifer 55 Feet
Annular Fill:
across screen -- Coarse Sand
above screen -- Bentonite
Aquifer Material -- Fine Sand

wetted hole 9.63 Feet
Aquifer thickness = 46.63 Feet
Aquifer thickness = 46.63 feet
Aquifer thickness = 46.63 Feet **1**
Aquifer thickness = 47 Feet **47**

Fraction penetrated = 0.206519

slope points	14	0.738
	3.83	0.28

FLOW RATE 2.25 GPM
FLOW RATE 433.1551 ft³/d

Rc = 0.083333 ft
Rw = 0.333333 ft

Slope = 0.813601 Feet /log₁₀
Slope = 0.813601 feet/log₁₀

T = 97 ft2/d
97.44279 Feet2/Day **1**
97 Feet2/Day **97**

K = 2.089702 ft/d
2.089702 Feet/Day **0.1**
K = 2.1 Feet/Day **21**

Absolute Shut Down

Input is consistent.

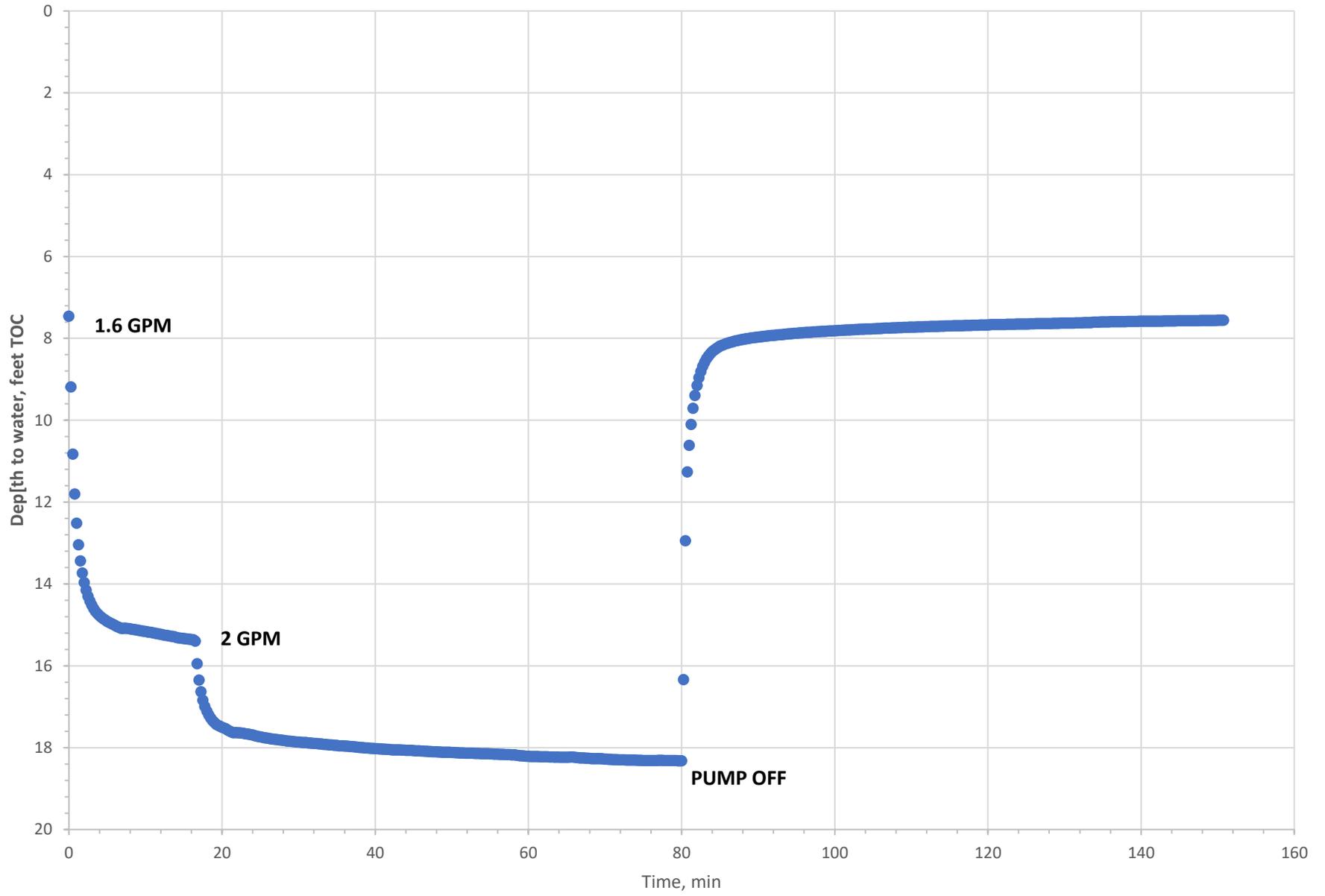
Decision	Option			
	0 Water level is below Base of Aquifer			
	0 Casing diameter is greater than the Annulus			
	0 Top of Aquifer is deeper than Base of Aquifer			
	0 Screen length is less than 1 Feet	1		
	0 Slope will produce a negative K			
	0 K = 2.1 is less than extreme minimum of 0.05 for Fine Sand	0.05	-2	0.05
	0 K = 2.1 is greater than extreme maximum of 20 for Fine Sa	20	1	20
	1 Input is consistent.			
	Error			

WARNING

K= 2.1 is less than likely minimum of 3 for Fine Sand

Decision	Option			
	0			
	1 K = 2.1 is less than likely minimum of 3 for Fine Sand	3	0	3
	1 K = 2.1 is greater than likely maximum of 20 for Fine Sand	20	1	20
	2			

MW-20



WELL ID: MW-20

Local ID: Hypo-1
 Date: 4/4/2001
 Time: 0:00

INPUT

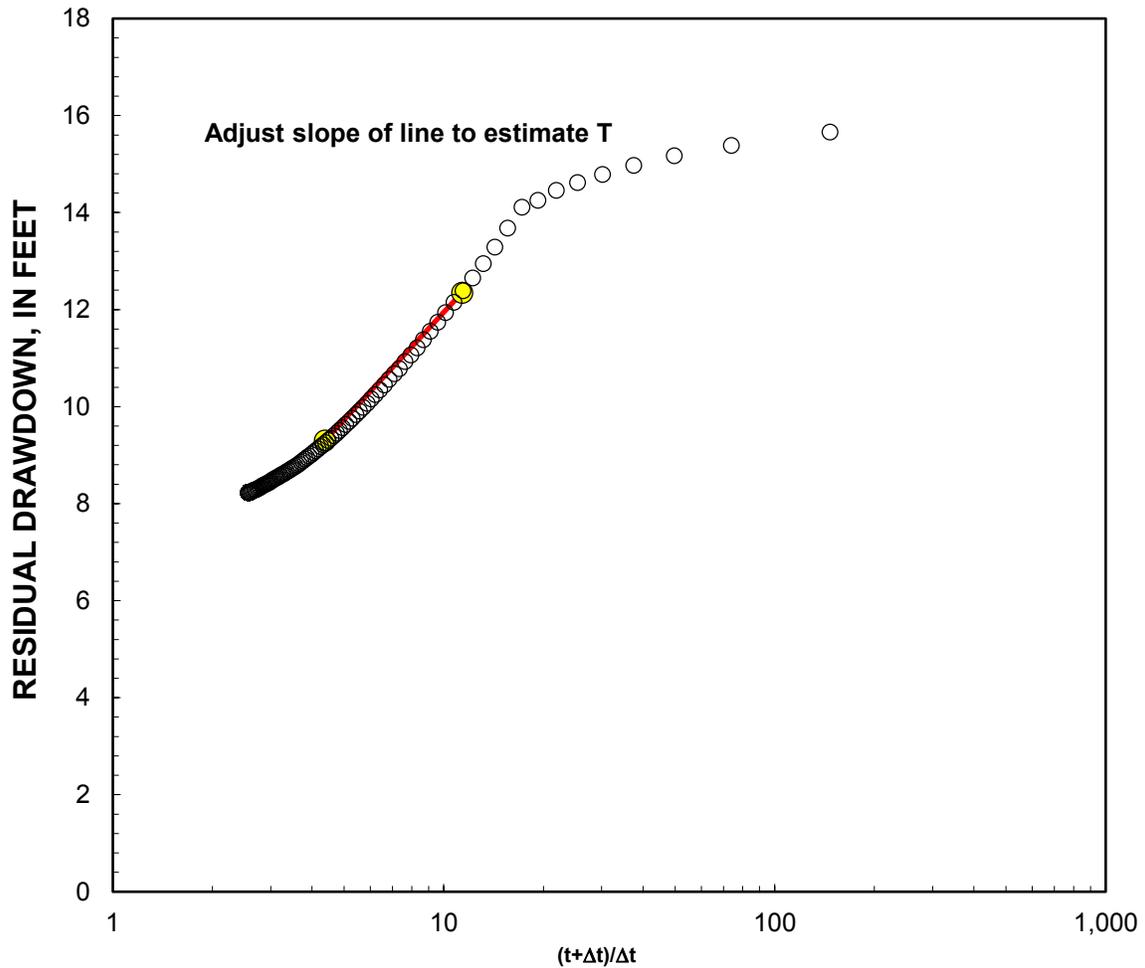
Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	7.7 Feet
Top of Aquifer	8 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material -- Silt, Loess	
FLOW RATE	0.5 GPM

COMPUTED

Aquifer thickness = 47 Feet
 Slope = 7.356781 Feet/log10

Input is consistent.

K =	0.051 Feet/Day
T =	2.4 Feet ² /Day



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Reduced Data					
	Time,	Water Level		Time,	Water Level
Entry	Date Hr:Min:Sec	Feet	Entry	Date Hr:Min:Sec	Feet
1	1/0/00 0:00:00	0.00	51	1/0/00 0:48:45	9.02
2	1/0/00 0:36:30	15.96	52	1/0/00 0:49:00	8.98
3	1/0/00 0:36:45	15.66	53	1/0/00 0:49:15	8.95
4	1/0/00 0:37:00	15.39	54	1/0/00 0:49:30	8.92
5	1/0/00 0:37:15	15.17	55	1/0/00 0:49:45	8.89
6	1/0/00 0:37:30	14.98	56	1/0/00 0:50:00	8.86
7	1/0/00 0:37:45	14.79	57	1/0/00 0:50:15	8.83
8	1/0/00 0:38:00	14.62	58	1/0/00 0:50:30	8.80
9	1/0/00 0:38:15	14.46	59	1/0/00 0:50:45	8.77
10	1/0/00 0:38:30	14.26	60	1/0/00 0:51:00	8.74
11	1/0/00 0:38:45	14.11	61	1/0/00 0:51:15	8.72
12	1/0/00 0:39:00	13.68	62	1/0/00 0:51:30	8.70
13	1/0/00 0:39:15	13.29	63	1/0/00 0:51:45	8.68
14	1/0/00 0:39:30	12.95	64	1/0/00 0:52:00	8.66
15	1/0/00 0:39:45	12.65	65	1/0/00 0:52:15	8.64
16	1/0/00 0:40:00	12.39	66	1/0/00 0:52:30	8.62
17	1/0/00 0:40:15	12.15	67	1/0/00 0:52:45	8.60
18	1/0/00 0:40:30	11.94	68	1/0/00 0:53:00	8.59
19	1/0/00 0:40:45	11.74	69	1/0/00 0:53:15	8.57
20	1/0/00 0:41:00	11.55	70	1/0/00 0:53:30	8.55
21	1/0/00 0:41:15	11.38	71	1/0/00 0:53:45	8.53
22	1/0/00 0:41:30	11.21	72	1/0/00 0:54:00	8.52
23	1/0/00 0:41:45	11.06	73	1/0/00 0:54:15	8.50
24	1/0/00 0:42:00	10.93	74	1/0/00 0:54:30	8.48
25	1/0/00 0:42:15	10.79	75	1/0/00 0:54:45	8.46
26	1/0/00 0:42:30	10.68	76	1/0/00 0:55:00	8.44
27	1/0/00 0:42:45	10.56	77	1/0/00 0:55:15	8.43
28	1/0/00 0:43:00	10.45	78	1/0/00 0:55:30	8.42
29	1/0/00 0:43:15	10.34	79	1/0/00 0:55:45	8.40
30	1/0/00 0:43:30	10.25	80	1/0/00 0:56:00	8.39
31	1/0/00 0:43:45	10.16	81	1/0/00 0:56:15	8.38
32	1/0/00 0:44:00	10.07	82	1/0/00 0:56:30	8.36
33	1/0/00 0:44:15	9.99	83	1/0/00 0:56:45	8.35
34	1/0/00 0:44:30	9.91	84	1/0/00 0:57:00	8.33
35	1/0/00 0:44:45	9.84	85	1/0/00 0:57:15	8.32
36	1/0/00 0:45:00	9.76	86	1/0/00 0:57:30	8.31
37	1/0/00 0:45:15	9.70	87	1/0/00 0:57:45	8.29
38	1/0/00 0:45:30	9.63	88	1/0/00 0:58:00	8.29
39	1/0/00 0:45:45	9.57	89	1/0/00 0:58:15	8.28
40	1/0/00 0:46:00	9.51	90	1/0/00 0:58:30	8.28
41	1/0/00 0:46:15	9.45	91	1/0/00 0:58:45	8.26
42	1/0/00 0:46:30	9.40	92	1/0/00 0:59:00	8.25
43	1/0/00 0:46:45	9.35	93	1/0/00 0:59:15	8.24
44	1/0/00 0:47:00	9.30	94	1/0/00 0:59:30	8.23
45	1/0/00 0:47:15	9.26			
46	1/0/00 0:47:30	9.21			
47	1/0/00 0:47:45	9.17			
48	1/0/00 0:48:00	9.13			
49	1/0/00 0:48:15	9.09			
50	1/0/00 0:48:30	9.05			

Inch	0.083333	Second	1.16E-05	GPM	192.5134
Feet		1 Minute	0.000694	ft3/d	1
Meter	3.28084	Hour	0.041667	ft3/s	86400
cm	0.032808	Day	1	m3/d	35.39525
mm	0.003281			m3/s	3058149
PSI	2.31			liters/s	3058.149
				liters/min	50.96915
				cc/s	3.058149
Out Units =					
Convert =		1 Feet2/Day			
Convert =		1 Feet/Day			

Casing dia. (dc) 2 Inch
Annulus dia. (dw) 8 Inch
Screen Length (L) 5 Feet

Depths to:
water level (DTW) 7.7 Feet
Top of Aquifer 8 Feet
Base of Aquifer 55 Feet
Annular Fill:
across screen -- Coarse Sand
above screen -- Bentonite
Aquifer Material -- Silt, Loess

wetted hole 5 Feet
Aquifer thickness = 47 Feet
Aquifer thickness = 47 feet
Aquifer thickness = 47 Feet 1
Aquifer thickness = 47 Feet 47

Fraction penetrated = 0.106383

slope points	11.357	12.353
	4.372	9.303

FLOW RATE 0.50 GPM
FLOW RATE 96.25668 ft³/d

Rc = 0.083333 ft
Rw = 0.333333 ft

Slope = 7.356781 Feet /log₁₀
Slope = 7.356781 feet/log₁₀

T = 2 ft2/d
 2.394755 Feet2/Day 0.1
 2.4 Feet2/Day 24

K = 0.050952 ft/d
 0.050952 Feet/Day 0.001
K = 0.051 Feet/Day 51

Absolute Shut Down

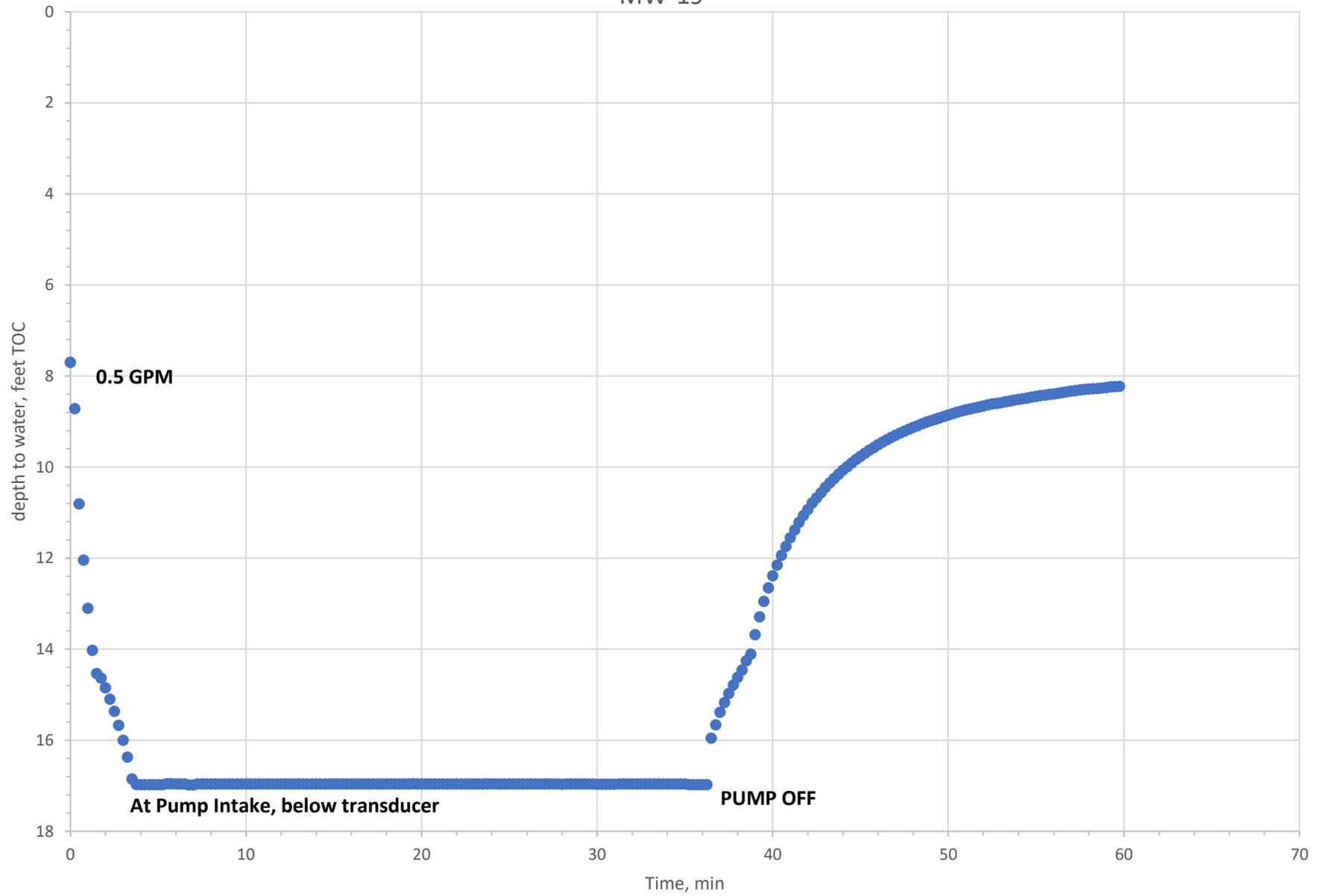
Input is consistent.

Decision	Option			
0	Water level is below Base of Aquifer			
0	Casing diameter is greater than the Annulus			
0	Top of Aquifer is deeper than Base of Aquifer			
0	Screen length is less than 1 Feet		1	
0	Slope will produce a negative K			
0	K = 0.051 is less than extreme minimum of 0.0003 for Silt, L	0.0003	-4	0.0003
0	K = 0.051 is greater than extreme maximum of 6 for Silt, L	6	0	6
1	Input is consistent.			
	Error			

WARNING

Decision	Option			
0				
0	K = 0.051 is less than likely minimum of 0.001 for Silt, L or	0.001	-3	0.001
0	K = 0.051 is greater than likely maximum of 0.1 for Silt, L or	0.1	-1	0.1
1				

MW-19



WELL ID: MW-19

Local ID: Hypo-1
 Date: 4/4/2001
 Time: 0:00

INPUT

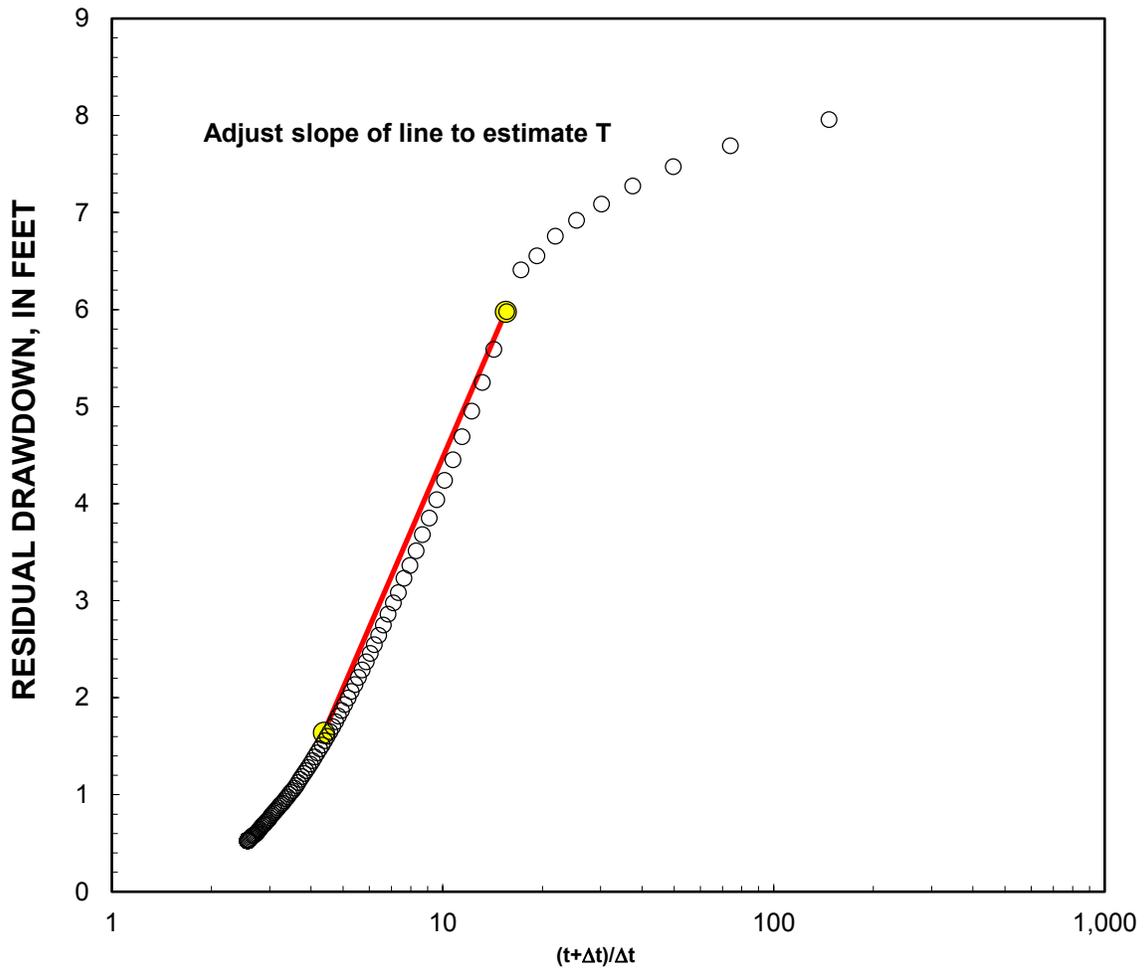
Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8 Inch
Screen Length (L)	5 Feet
Depths to:	
water level (DTW)	7.7 Feet
Top of Aquifer	8 Feet
Base of Aquifer	55 Feet
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material -- Silt, Loess	
FLOW RATE	0.5 GPM

COMPUTED

Aquifer thickness = 47 Feet
 Slope = 7.894092 Feet/log10

Input is consistent.

K =	0.047 Feet/Day
T =	2.2 Feet ² /Day



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

Reduced Data					
Entry	Time, Date Hr:Min:Sec	Water Level Feet	Entry	Time, Date Hr:Min:Sec	Water Level Feet
1	1/0/00 0:00:00	7.70	51	1/0/00 0:48:45	9.02
2	1/0/00 0:36:30	15.96	52	1/0/00 0:49:00	8.98
3	1/0/00 0:36:45	15.66	53	1/0/00 0:49:15	8.95
4	1/0/00 0:37:00	15.39	54	1/0/00 0:49:30	8.92
5	1/0/00 0:37:15	15.17	55	1/0/00 0:49:45	8.89
6	1/0/00 0:37:30	14.98	56	1/0/00 0:50:00	8.86
7	1/0/00 0:37:45	14.79	57	1/0/00 0:50:15	8.83
8	1/0/00 0:38:00	14.62	58	1/0/00 0:50:30	8.80
9	1/0/00 0:38:15	14.46	59	1/0/00 0:50:45	8.77
10	1/0/00 0:38:30	14.26	60	1/0/00 0:51:00	8.74
11	1/0/00 0:38:45	14.11	61	1/0/00 0:51:15	8.72
12	1/0/00 0:39:00	13.68	62	1/0/00 0:51:30	8.70
13	1/0/00 0:39:15	13.29	63	1/0/00 0:51:45	8.68
14	1/0/00 0:39:30	12.95	64	1/0/00 0:52:00	8.66
15	1/0/00 0:39:45	12.65	65	1/0/00 0:52:15	8.64
16	1/0/00 0:40:00	12.39	66	1/0/00 0:52:30	8.62
17	1/0/00 0:40:15	12.15	67	1/0/00 0:52:45	8.60
18	1/0/00 0:40:30	11.94	68	1/0/00 0:53:00	8.59
19	1/0/00 0:40:45	11.74	69	1/0/00 0:53:15	8.57
20	1/0/00 0:41:00	11.55	70	1/0/00 0:53:30	8.55
21	1/0/00 0:41:15	11.38	71	1/0/00 0:53:45	8.53
22	1/0/00 0:41:30	11.21	72	1/0/00 0:54:00	8.52
23	1/0/00 0:41:45	11.06	73	1/0/00 0:54:15	8.50
24	1/0/00 0:42:00	10.93	74	1/0/00 0:54:30	8.48
25	1/0/00 0:42:15	10.79	75	1/0/00 0:54:45	8.46
26	1/0/00 0:42:30	10.68	76	1/0/00 0:55:00	8.44
27	1/0/00 0:42:45	10.56	77	1/0/00 0:55:15	8.43
28	1/0/00 0:43:00	10.45	78	1/0/00 0:55:30	8.42
29	1/0/00 0:43:15	10.34	79	1/0/00 0:55:45	8.40
30	1/0/00 0:43:30	10.25	80	1/0/00 0:56:00	8.39
31	1/0/00 0:43:45	10.16	81	1/0/00 0:56:15	8.38
32	1/0/00 0:44:00	10.07	82	1/0/00 0:56:30	8.36
33	1/0/00 0:44:15	9.99	83	1/0/00 0:56:45	8.35
34	1/0/00 0:44:30	9.91	84	1/0/00 0:57:00	8.33
35	1/0/00 0:44:45	9.84	85	1/0/00 0:57:15	8.32
36	1/0/00 0:45:00	9.76	86	1/0/00 0:57:30	8.31
37	1/0/00 0:45:15	9.70	87	1/0/00 0:57:45	8.29
38	1/0/00 0:45:30	9.63	88	1/0/00 0:58:00	8.29
39	1/0/00 0:45:45	9.57	89	1/0/00 0:58:15	8.28
40	1/0/00 0:46:00	9.51	90	1/0/00 0:58:30	8.28
41	1/0/00 0:46:15	9.45	91	1/0/00 0:58:45	8.26
42	1/0/00 0:46:30	9.40	92	1/0/00 0:59:00	8.25
43	1/0/00 0:46:45	9.35	93	1/0/00 0:59:15	8.24
44	1/0/00 0:47:00	9.30	94	1/0/00 0:59:30	8.23
45	1/0/00 0:47:15	9.26			
46	1/0/00 0:47:30	9.21			
47	1/0/00 0:47:45	9.17			
48	1/0/00 0:48:00	9.13			
49	1/0/00 0:48:15	9.09			
50	1/0/00 0:48:30	9.05			

Inch	0.083333	Second	1.16E-05	GPM	192.5134
Feet		1 Minute	0.000694	ft ³ /d	1
Meter	3.28084	Hour	0.041667	ft ³ /s	86400
cm	0.032808	Day	1	m ³ /d	35.39525
mm	0.003281			m ³ /s	3058149
PSI	2.31			liters/s	3058.149
				liters/min	50.96915
				cc/s	3.058149
Out Units =					
Convert =		1 Feet ² /Day			
Convert =		1 Feet/Day			

Casing dia. (dc) 2 Inch
Annulus dia. (dw) 8 Inch
Screen Length (L) 5 Feet

Depths to:
water level (DTW) 7.7 Feet
Top of Aquifer 8 Feet
Base of Aquifer 55 Feet
Annular Fill:
across screen -- Coarse Sand
above screen -- Bentonite
Aquifer Material -- Silt, Loess

wetted hole 5 Feet
Aquifer thickness = 47 Feet
Aquifer thickness = 47 feet
Aquifer thickness = 47 Feet 1
Aquifer thickness = 47 Feet 47

Fraction penetrated = 0.106383

slope points	15.5	5.979
	4.372	1.64

FLOW RATE 0.50 GPM
FLOW RATE 96.25668 ft³/d

Rc = 0.083333 ft
Rw = 0.333333 ft

Slope = 7.894092 Feet /log₁₀
Slope = 7.894092 feet/log₁₀

T = 2 ft²/d
 2.231756 Feet²/Day 0.1
 2.2 Feet²/Day 22

K = 0.047484 ft/d
 0.047484 Feet/Day 0.001
K = 0.047 Feet/Day 47

Absolute Shut Down

Input is consistent.

Decision	Option			
0	Water level is below Base of Aquifer			
0	Casing diameter is greater than the Annulus			
0	Top of Aquifer is deeper than Base of Aquifer			
0	Screen length is less than 1 Feet		1	
0	Slope will produce a negative K			
0	K = 0.047 is less than extreme minimum of 0.0003 for Silt, L	0.0003	-4	0.0003
0	K = 0.047 is greater than extreme maximum of 6 for Silt, L	6	0	6
1	Input is consistent.			
	Error			

WARNING

Decision	Option			
0				
0	K = 0.047 is less than likely minimum of 0.001 for Silt, L or:	0.001	-3	0.001
0	K = 0.047 is greater than likely maximum of 0.1 for Silt, L or	0.1	-1	0.1
1				

DRAFT

**Attachment C
Analytical Laboratory Reports**



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

November 3, 2015

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1510-195

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on October 24, 2015.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures

Date of Report: November 3, 2015
Samples Submitted: October 24, 2015
Laboratory Reference: 1510-195
Project: 2007-098-2036

Case Narrative

Samples were collected on October 23 and 24, 2015 and received by the laboratory on October 24, 2015. 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: November 3, 2015
 Samples Submitted: October 24, 2015
 Laboratory Reference: 1510-195
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-1-4'					
Laboratory ID:	10-195-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloromethane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromomethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloroethane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Iodomethane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
Methylene Chloride	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromochloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloroform	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Trichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Dibromomethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	

Date of Report: November 3, 2015
 Samples Submitted: October 24, 2015
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HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-1-4'					
Laboratory ID:	10-195-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Tetrachloroethene	0.0013	0.0010	EPA 8260C	10-28-15	10-28-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromoform	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-126</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>60-146</i>				

Date of Report: November 3, 2015
 Samples Submitted: October 24, 2015
 Laboratory Reference: 1510-195
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-1-6'					
Laboratory ID:	10-195-03					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Chloromethane	ND	0.0045	EPA 8260C	10-28-15	10-28-15	
Vinyl Chloride	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Bromomethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Chloroethane	ND	0.0045	EPA 8260C	10-28-15	10-28-15	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Iodomethane	ND	0.0045	EPA 8260C	10-28-15	10-28-15	
Methylene Chloride	ND	0.0045	EPA 8260C	10-28-15	10-28-15	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Bromochloromethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Chloroform	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Trichloroethene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Dibromomethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Bromodichloromethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	10-28-15	10-28-15	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	

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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-1-6'					
Laboratory ID:	10-195-03					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Tetrachloroethene	0.0069	0.00091	EPA 8260C	10-28-15	10-28-15	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Dibromochloromethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Chlorobenzene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Bromoform	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Bromobenzene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
2-Chlorotoluene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
4-Chlorotoluene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	10-28-15	10-28-15	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	10-28-15	10-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>83-126</i>				
<i>4-Bromofluorobenzene</i>	<i>119</i>	<i>60-146</i>				

Date of Report: November 3, 2015
 Samples Submitted: October 24, 2015
 Laboratory Reference: 1510-195
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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:	Int B-2-4'					
Laboratory ID:	10-195-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloromethane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromomethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloroethane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Iodomethane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
Methylene Chloride	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromochloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloroform	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Trichloroethene	0.0012	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Dibromomethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	

Date of Report: November 3, 2015
 Samples Submitted: October 24, 2015
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-2-4'					
Laboratory ID:	10-195-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Tetrachloroethene	0.0083	0.0010	EPA 8260C	10-28-15	10-28-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromoform	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-126</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>60-146</i>				

Date of Report: November 3, 2015
 Samples Submitted: October 24, 2015
 Laboratory Reference: 1510-195
 Project: 2007-098-2036

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-2-5'					
Laboratory ID:	10-195-06					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Chloromethane	ND	0.0046	EPA 8260C	10-28-15	10-28-15	
Vinyl Chloride	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Bromomethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Chloroethane	ND	0.0046	EPA 8260C	10-28-15	10-28-15	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Iodomethane	ND	0.0046	EPA 8260C	10-28-15	10-28-15	
Methylene Chloride	ND	0.0046	EPA 8260C	10-28-15	10-28-15	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Bromochloromethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Chloroform	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Trichloroethene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Dibromomethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Bromodichloromethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	10-28-15	10-28-15	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-2-5'					
Laboratory ID:	10-195-06					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Tetrachloroethene	0.0021	0.00093	EPA 8260C	10-28-15	10-28-15	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Dibromochloromethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Chlorobenzene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Bromoform	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Bromobenzene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
2-Chlorotoluene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
4-Chlorotoluene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	10-28-15	10-28-15	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	10-28-15	10-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>83-126</i>				
<i>4-Bromofluorobenzene</i>	<i>120</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-3-2'					
Laboratory ID:	10-195-07					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Chloromethane	ND	0.0049	EPA 8260C	10-28-15	10-29-15	
Vinyl Chloride	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Bromomethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Chloroethane	ND	0.0049	EPA 8260C	10-28-15	10-29-15	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Iodomethane	ND	0.0049	EPA 8260C	10-28-15	10-29-15	
Methylene Chloride	ND	0.0049	EPA 8260C	10-28-15	10-29-15	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Bromochloromethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Chloroform	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Trichloroethene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Dibromomethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Bromodichloromethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	10-28-15	10-29-15	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-3-2'					
Laboratory ID:	10-195-07					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Tetrachloroethene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Dibromochloromethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Chlorobenzene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Bromoform	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Bromobenzene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
2-Chlorotoluene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
4-Chlorotoluene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	10-28-15	10-29-15	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	10-28-15	10-29-15	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	10-28-15	10-29-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>83-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				

Date of Report: November 3, 2015
 Samples Submitted: October 24, 2015
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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:	MB1028S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloromethane	ND	0.0050	EPA 8260C	10-28-15	10-28-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromomethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloroethane	ND	0.0050	EPA 8260C	10-28-15	10-28-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Iodomethane	ND	0.0050	EPA 8260C	10-28-15	10-28-15	
Methylene Chloride	ND	0.0050	EPA 8260C	10-28-15	10-28-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromochloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chloroform	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Trichloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Dibromomethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-28-15	10-28-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	

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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:	MB1028S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Chlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromoform	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Bromobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-28-15	10-28-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-28-15	10-28-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-28-15	10-28-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-126</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>60-146</i>				

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**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:	SB1028S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0521	0.0530	0.0500	0.0500	104	106	68-126	2	15	
Benzene	0.0494	0.0501	0.0500	0.0500	99	100	75-121	1	15	
Trichloroethene	0.0454	0.0454	0.0500	0.0500	91	91	83-116	0	15	
Toluene	0.0489	0.0491	0.0500	0.0500	98	98	80-115	0	15	
Chlorobenzene	0.0504	0.0499	0.0500	0.0500	101	100	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>89</i>	<i>93</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>90</i>	<i>94</i>	<i>83-126</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>110</i>	<i>60-146</i>			

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**TOTAL ORGANIC CARBON
 EPA 9060A**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Int B-1-4'					
Laboratory ID:	10-195-02					
Total Organic Carbon	0.087	0.081	EPA 9060	11-2-15	11-2-15	
Client ID:	Int B-1-6'					
Laboratory ID:	10-195-03					
Total Organic Carbon	0.24	0.077	EPA 9060	11-2-15	11-2-15	
Client ID:	Int B-2-4'					
Laboratory ID:	10-195-05					
Total Organic Carbon	0.39	0.084	EPA 9060	11-2-15	11-2-15	
Client ID:	Int B-2-5'					
Laboratory ID:	10-195-06					
Total Organic Carbon	0.38	0.071	EPA 9060	11-2-15	11-2-15	
Client ID:	Int B-3-2'					
Laboratory ID:	10-195-07					
Total Organic Carbon	0.64	0.071	EPA 9060	11-2-15	11-2-15	

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**TOTAL ORGANIC CARBON
 EPA 9060A
 QUALITY CONTROL**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102S1					
Total Organic Carbon	ND	0.042	EPA 9060	11-2-15	11-2-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-195-05							
	ORIG	DUP						
Total Organic Carbon	0.390	0.380	NA	NA	NA	3	26	

SPIKE BLANK								
Laboratory ID:	SB1102S1							
	SB	SB		SB				
Total Organic Carbon	45.0	42.1	NA	107	85-131	NA	NA	

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% MOISTURE

Date Analyzed: 10-28-15

Client ID	Lab ID	% Moisture
Int B-1-4'	10-195-02	4
Int B-1-6'	10-195-03	4
Int B-2-4'	10-195-05	8
Int B-2-5'	10-195-06	3
Int B-3-2'	10-195-07	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



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

Chain of Custody

Laboratory Number: **10-195**

Turnaround Request
 (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 (other) _____

Company: **HWA Geosciences**

Project Number: **2007-098-2036**

Project Name: **Bethell Service Center**

Project Manager: **Arnie Sugar**

Sampled by: **Austin York**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	Int B-1-2'	10-23-15	1050pm	Soil
2	Int B-1-4'		1100pm	
3	Int B-1-6'		1110pm	
4	Int B-2-2'		1140pm	
5	Int B-2-4'		1148pm	
6	Int B-2-5'	10-23-15	1155pm	
7	Int B-3-2'	10-24-15	1230am	Soil

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	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	TOC-EPA 9060A	Archive	% Moisture
5						(X)											(X)	(X)	
						(X)											(X)	(X)	
						(X)											(X)	(X)	
						(X)											(X)	(X)	
						(X)											(X)	(X)	
						(X)											(X)	(X)	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Austin York</i>	HWA Geosciences	10-24-15	2:30am	(X) Added 10/26/15. DB (57A)
<i>[Signature]</i>	HWA	10/24/15	11:23:00	
<i>[Signature]</i>	HWA	10/24/15	11:57	
<i>[Signature]</i>	HWA	10/24/15	11:57	

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Reviewed/Date

Reviewed/Date

Standard (7 Days) (TPH analysis 5 Days)

Level III Level IV

Electronic Data Deliverables (EDDs)

Chromatograms with final report



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

November 18, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-22
Laboratory Reference No. 1511-081

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 10, 2015.

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

Date of Report: November 18, 2015
Samples Submitted: November 10, 2015
Laboratory Reference: 1511-081
Project: 2007-098-22

Case Narrative

Samples were collected on November 9, 2015 and received by the laboratory on November 10, 2015. 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.

TOC by SM 5310B Analysis

Sample BSCMW-2-Int (11-081-08) was received at a pH of 6.0. The sample was preserved with 1:1 HCl to a pH of less than 2 before analysis.

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

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSCMW-2-Int					
Laboratory ID:	11-081-08					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chloromethane	ND	50	EPA 8260C	11-11-15	11-11-15	
Vinyl Chloride	23	10	EPA 8260C	11-11-15	11-11-15	
Bromomethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chloroethane	ND	50	EPA 8260C	11-11-15	11-11-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-11-15	11-11-15	
Iodomethane	ND	80	EPA 8260C	11-11-15	11-11-15	
Methylene Chloride	ND	50	EPA 8260C	11-11-15	11-11-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
(cis) 1,2-Dichloroethene	43	10	EPA 8260C	11-11-15	11-11-15	
Bromochloromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chloroform	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Trichloroethene	77	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
Dibromomethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Bromodichloromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
2-Chloroethyl Vinyl Ether	ND	120	EPA 8260C	11-11-15	11-11-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-11-15	11-11-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-11-15	11-11-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSCMW-2-Int					
Laboratory ID:	11-081-08					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Tetrachloroethene	780	10	EPA 8260C	11-11-15	11-11-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
Dibromochloromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Bromoform	ND	50	EPA 8260C	11-11-15	11-11-15	
Bromobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-11-15	11-11-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-11-15	11-11-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	71-131				
<i>Toluene-d8</i>	93	80-120				
<i>4-Bromofluorobenzene</i>	88	80-120				

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSCMW-2-Deep					
Laboratory ID:	11-081-09					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chloromethane	ND	50	EPA 8260C	11-11-15	11-11-15	
Vinyl Chloride	23	10	EPA 8260C	11-11-15	11-11-15	
Bromomethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chloroethane	ND	50	EPA 8260C	11-11-15	11-11-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-11-15	11-11-15	
Iodomethane	ND	80	EPA 8260C	11-11-15	11-11-15	
Methylene Chloride	ND	50	EPA 8260C	11-11-15	11-11-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
(cis) 1,2-Dichloroethene	190	10	EPA 8260C	11-11-15	11-11-15	
Bromochloromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chloroform	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Trichloroethene	80	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
Dibromomethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Bromodichloromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
2-Chloroethyl Vinyl Ether	ND	120	EPA 8260C	11-11-15	11-11-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-11-15	11-11-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-11-15	11-11-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSCMW-2-Deep					
Laboratory ID:	11-081-09					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Tetrachloroethene	1200	10	EPA 8260C	11-11-15	11-11-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
Dibromochloromethane	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Chlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
Bromoform	ND	50	EPA 8260C	11-11-15	11-11-15	
Bromobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-11-15	11-11-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-11-15	11-11-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-11-15	11-11-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-11-15	11-11-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-120</i>				

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-081-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chloromethane	ND	1.0	EPA 8260C	11-11-15	11-11-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromomethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chloroethane	ND	1.0	EPA 8260C	11-11-15	11-11-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Iodomethane	ND	1.6	EPA 8260C	11-11-15	11-11-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-15	11-11-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chloroform	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Trichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Dibromomethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	11-11-15	11-11-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-15	11-11-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-081-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromoform	ND	1.0	EPA 8260C	11-11-15	11-11-15	
Bromobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-11-15	11-11-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-120</i>				

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1111W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chloromethane	ND	1.0	EPA 8260C	11-11-15	11-11-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromomethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chloroethane	ND	1.0	EPA 8260C	11-11-15	11-11-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Iodomethane	ND	1.6	EPA 8260C	11-11-15	11-11-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-11-15	11-11-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chloroform	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Trichloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Dibromomethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	11-11-15	11-11-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-11-15	11-11-15	

Date of Report: November 18, 2015
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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:		MB1111W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Bromoform	ND	1.0	EPA 8260C	11-11-15	11-11-15	
Bromobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-11-15	11-11-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-11-15	11-11-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-11-15	11-11-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: November 18, 2015
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 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1111W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	9.37	10.0	10.0	101	94	62-132	7	20	
Benzene	10.1	9.67	10.0	10.0	101	97	75-121	4	15	
Trichloroethene	9.40	8.76	10.0	10.0	94	88	65-115	7	15	
Toluene	10.1	9.51	10.0	10.0	101	95	78-116	6	15	
Chlorobenzene	9.57	9.08	10.0	10.0	96	91	77-118	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	104	71-131			
Toluene-d8					97	99	80-120			
4-Bromofluorobenzene					93	96	80-120			

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 Project: 2007-098-22

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-6					
Laboratory ID:	11-081-01					
Dichlorodifluoromethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0043	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0043	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0043	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0043	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	

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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-6					
Laboratory ID:	11-081-01					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>127</i>	<i>60-146</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:	MW-20-10					
Laboratory ID:	11-081-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	0.0055	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	0.0055	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	0.0055	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	0.0055	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-10					
Laboratory ID:	11-081-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</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:	MW-20-15					
Laboratory ID:	11-081-03					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	0.011	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	0.024	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-15					
Laboratory ID:	11-081-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	5.0	0.12	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>122</i>	<i>60-146</i>				

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 Samples Submitted: November 10, 2015
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 Project: 2007-098-22

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-20					
Laboratory ID:	11-081-04					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	0.0033	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	0.0049	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-20					
Laboratory ID:	11-081-04					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	0.66	0.057	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>129</i>	<i>60-146</i>				

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 Samples Submitted: November 10, 2015
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 Project: 2007-098-22

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-35					
Laboratory ID:	11-081-05					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0058	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0058	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0058	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0058	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	0.0037	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	0.0023	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-35					
Laboratory ID:	11-081-05					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	0.21	0.0012	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>128</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-41					
Laboratory ID:	11-081-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0062	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0062	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0062	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0062	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	0.028	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	0.34	0.067	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-41					
Laboratory ID:	11-081-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	1.5	0.067	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>129</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-46					
Laboratory ID:	11-081-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0055	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0055	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0055	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0055	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	0.0011	0.0011	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-46					
Laboratory ID:	11-081-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	0.0051	0.0011	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>122</i>	<i>60-146</i>				

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 Samples Submitted: November 10, 2015
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 Project: 2007-098-22

**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:	MB1113S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1113S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>128</i>	<i>60-146</i>				

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

**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:	MB1116S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	0.0050	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	0.0050	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	0.0050	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
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 Project: 2007-098-22

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>119</i>	<i>60-146</i>				

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

**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:	SB1113S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0554	0.0551	0.0500	0.0500	111	110	68-126	1	15	
Benzene	0.0555	0.0560	0.0500	0.0500	111	112	75-121	1	15	
Trichloroethene	0.0436	0.0438	0.0500	0.0500	87	88	83-116	0	15	
Toluene	0.0537	0.0546	0.0500	0.0500	107	109	80-115	2	15	
Chlorobenzene	0.0481	0.0486	0.0500	0.0500	96	97	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	95	76-131			
<i>Toluene-d8</i>					96	98	80-126			
<i>4-Bromofluorobenzene</i>					116	115	60-146			

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1116S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0473	0.0466	0.0500	0.0500	95	93	68-126	1	15	
Benzene	0.0490	0.0480	0.0500	0.0500	98	96	75-121	2	15	
Trichloroethene	0.0418	0.0407	0.0500	0.0500	84	81	80-116	3	15	
Toluene	0.0497	0.0476	0.0500	0.0500	99	95	80-115	4	15	
Chlorobenzene	0.0498	0.0482	0.0500	0.0500	100	96	76-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	94	76-131			
<i>Toluene-d8</i>					97	94	80-126			
<i>4-Bromofluorobenzene</i>					109	103	60-146			

Date of Report: November 18, 2015
Samples Submitted: November 10, 2015
Laboratory Reference: 1511-081
Project: 2007-098-22

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-Int					
Laboratory ID:	11-081-08					
Total Organic Carbon	2.5	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-20-Deep					
Laboratory ID:	11-081-09					
Total Organic Carbon	2.1	1.0	SM 5310B	11-12-15	11-12-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
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 Project: 2007-098-22

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Total Organic Carbon	2.06	2.03	NA	NA	NA	NA	1	15

MATRIX SPIKE

Laboratory ID:	11-081-09							
	MS	MS		MS				
Total Organic Carbon	12.4		10.0	2.06	103	85-119	NA	NA

SPIKE BLANK

Laboratory ID:	SB1112W1							
	SB	SB		SB				
Total Organic Carbon	10.7		10.0	NA	107	86-115	NA	NA

Date of Report: November 18, 2015
Samples Submitted: November 10, 2015
Laboratory Reference: 1511-081
Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-Int					
Laboratory ID:	11-081-08					
Nitrate	ND	0.050	EPA 353.2	11-10-15	11-11-15	

Client ID:	MW-20-Deep					
Laboratory ID:	11-081-09					
Nitrate	0.051	0.050	EPA 353.2	11-10-15	11-11-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1110F1					
Nitrate	ND	0.050	EPA 353.2	11-10-15	11-11-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-08							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	12	

MATRIX SPIKE								
Laboratory ID:	11-081-08							
	MS	MS		MS				
Nitrate	2.20	2.00	ND	110	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1110F1							
	SB	SB		SB				
Nitrate	2.21	2.00	NA	111	96-119	NA	NA	

Date of Report: November 18, 2015
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Project: 2007-098-22

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-Int					
Laboratory ID:	11-081-08					
Sulfate	17	10	ASTM D516-07	11-10-15	11-18-15	

Client ID:	MW-20-Deep					
Laboratory ID:	11-081-09					
Sulfate	ND	5.0	ASTM D516-07	11-10-15	11-18-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1110F1					
Sulfate	ND	5.0	ASTM D516-07	11-10-15	11-18-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-03							
	ORIG	DUP						
Sulfate	25.7	26.4	NA	NA	NA	3	9	

MATRIX SPIKE								
Laboratory ID:	11-119-03							
	MS	MS		MS				
Sulfate	43.9	20.0	25.7	91	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1113F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	86-116	NA	NA	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-Int					
Laboratory ID:	11-081-08					
Methane	1900	250	RSK 175	11-13-15	11-13-15	
Ethane	ND	250	RSK 175	11-13-15	11-13-15	
Ethene	19	0.50	RSK 175	11-13-15	11-13-15	

Client ID:	MW-20-Deep					
Laboratory ID:	11-081-09					
Methane	2700	250	RSK 175	11-13-15	11-13-15	
Ethane	ND	250	RSK 175	11-13-15	11-13-15	
Ethene	26	0.50	RSK 175	11-13-15	11-13-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
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 Project: 2007-098-22

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113W2					
Methane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1113W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.42	4.49	4.42	4.42	N/A	100	102	75-125	2	25	
Ethane	8.02	7.56	8.32	8.32	N/A	96	91	75-125	6	25	
Ethene	7.79	6.98	7.77	7.77	N/A	100	90	75-125	11	25	

Date of Report: November 18, 2015
Samples Submitted: November 10, 2015
Laboratory Reference: 1511-081
Project: 2007-098-22

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20-Int					
Laboratory ID:	11-081-08					
Chloride	71	2.0	SM 4500-Cl E	11-10-15	11-12-15	

Client ID:	MW-20-Deep					
Laboratory ID:	11-081-09					
Chloride	7.7	2.0	SM 4500-Cl E	11-10-15	11-12-15	

Date of Report: November 18, 2015
 Samples Submitted: November 10, 2015
 Laboratory Reference: 1511-081
 Project: 2007-098-22

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1110F1					
Chloride	ND	2.0	SM 4500-Cl E	11-10-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Chloride	7.74	7.54	NA	NA	NA	NA	3	10

MATRIX SPIKE								
Laboratory ID:	11-081-09							
	MS	MS		MS				
Chloride	58.4	50.0	7.74	101	96-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1110F1							
	SB	SB		SB				
Chloride	52.0	50.0	NA	104	96-124	NA	NA	

Date of Report: November 18, 2015
Samples Submitted: November 10, 2015
Laboratory Reference: 1511-081
Project: 2007-098-22

% MOISTURE

Date Analyzed: 11-12-15

Client ID	Lab ID	% Moisture
MW-20-6	11-081-01	11
MW-20-10	11-081-02	17
MW-20-15	11-081-03	14
MW-20-20	11-081-04	12
MW-20-35	11-081-05	19
MW-20-41	11-081-06	19
MW-20-46	11-081-07	19



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

November 20, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1511-097

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 11, 2015.

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

Date of Report: November 20, 2015
Samples Submitted: November 11, 2015
Laboratory Reference: 1511-097
Project: 2007-098-2036

Case Narrative

Samples were collected on November 10, 2015 and received by the laboratory on November 11, 2015. 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 (soil) 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: November 20, 2015
 Samples Submitted: November 11, 2015
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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:	MW-19-5					
Laboratory ID:	11-097-01					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	0.0019	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	0.0013	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-5					
Laboratory ID:	11-097-01					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-10					
Laboratory ID:	11-097-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0056	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0056	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0056	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0056	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	0.11	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	0.040	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-10					
Laboratory ID:	11-097-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	0.12	0.0011	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>121</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-15					
Laboratory ID:	11-097-03					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	0.0012	0.00097	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	0.059	0.00097	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	0.037	0.00097	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-15					
Laboratory ID:	11-097-03					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	4.1	0.11	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>60-146</i>				

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 Samples Submitted: November 11, 2015
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-18					
Laboratory ID:	11-097-04					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0047	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0047	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0047	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0047	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-18					
Laboratory ID:	11-097-04					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	0.0079	0.00095	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>119</i>	<i>60-146</i>				

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-21					
Laboratory ID:	11-097-05					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	0.0045	0.00096	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	0.0047	0.00096	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-21					
Laboratory ID:	11-097-05					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	0.80	0.056	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-30					
Laboratory ID:	11-097-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0055	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0055	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0055	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0055	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	0.0016	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	0.0011	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-30					
Laboratory ID:	11-097-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	0.053	0.0011	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>120</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-40					
Laboratory ID:	11-097-09					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0057	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0057	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0057	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0057	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-40					
Laboratory ID:	11-097-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	0.0034	0.0011	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>123</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-45					
Laboratory ID:	11-097-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0059	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0059	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0059	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0059	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-45					
Laboratory ID:	11-097-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>126</i>	<i>60-146</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:	MW-19-60					
Laboratory ID:	11-097-11					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	0.0017	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	0.0020	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-60					
Laboratory ID:	11-097-11					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	0.16	0.00089	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>122</i>	<i>60-146</i>				

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 Project: 2007-098-2036

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-75					
Laboratory ID:	11-097-14					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0046	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0046	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0046	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0046	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-75					
Laboratory ID:	11-097-14					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>60-146</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:	MB1112S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	0.0050	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	0.0050	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	0.0050	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	

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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:	MB1112S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>126</i>	<i>60-146</i>				

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
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 Project: 2007-098-2036

**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:	MB1113S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	

Date of Report: November 20, 2015
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 Project: 2007-098-2036

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1113S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>128</i>	<i>60-146</i>				

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 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1112S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0543	0.0538	0.0500	0.0500	109	108	68-126	1	15	
Benzene	0.0559	0.0548	0.0500	0.0500	112	110	75-121	2	15	
Trichloroethene	0.0448	0.0443	0.0500	0.0500	90	89	83-116	1	15	
Toluene	0.0539	0.0534	0.0500	0.0500	108	107	80-115	1	15	
Chlorobenzene	0.0480	0.0478	0.0500	0.0500	96	96	76-120	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	92	76-131			
<i>Toluene-d8</i>					97	95	80-126			
<i>4-Bromofluorobenzene</i>					113	115	60-146			

Date of Report: November 20, 2015
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 Project: 2007-098-2036

**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:	SB1113S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0554	0.0551	0.0500	0.0500	111	110	68-126	1	15	
Benzene	0.0555	0.0560	0.0500	0.0500	111	112	75-121	1	15	
Trichloroethene	0.0436	0.0438	0.0500	0.0500	87	88	83-116	0	15	
Toluene	0.0537	0.0546	0.0500	0.0500	107	109	80-115	2	15	
Chlorobenzene	0.0481	0.0486	0.0500	0.0500	96	97	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	95	76-131			
<i>Toluene-d8</i>					96	98	80-126			
<i>4-Bromofluorobenzene</i>					116	115	60-146			

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Int					
Laboratory ID:	11-097-15					
Dichlorodifluoromethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	20	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	20	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	36	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	20	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	23	4.0	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	19	4.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	52	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Int					
Laboratory ID:	11-097-15					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	820	4.0	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	20	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>80-120</i>				

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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Deep					
Laboratory ID:	11-097-16					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	50	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	10	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	50	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	90	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	50	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	26	10	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	10	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	18	10	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	10	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	130	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Deep					
Laboratory ID:	11-097-16					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	920	10	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	10	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	50	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Bottom					
Laboratory ID:	11-097-17					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	5.0	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	5.0	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	9.0	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	3.3	1.0	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Chloroform	3.3	1.0	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	2.8	1.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	13	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Bottom					
Laboratory ID:	11-097-17					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	170	1.0	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	5.0	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	71-131				
<i>Toluene-d8</i>	93	80-120				
<i>4-Bromofluorobenzene</i>	87	80-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-097-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	1.8	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-12-15	11-12-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-097-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-120</i>				

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1112W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chloromethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromomethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chloroethane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Iodomethane	ND	1.8	EPA 8260C	11-12-15	11-12-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-12-15	11-12-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chloroform	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Trichloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Dibromomethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	11-12-15	11-12-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-12-15	11-12-15	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1112W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Bromoform	ND	1.0	EPA 8260C	11-12-15	11-12-15	
Bromobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-12-15	11-12-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-12-15	11-12-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-12-15	11-12-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-120</i>				

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1112W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.35	9.14	10.0	10.0	94	91	62-132	2	20	
Benzene	9.42	9.75	10.0	10.0	94	98	75-121	3	15	
Trichloroethene	8.78	9.04	10.0	10.0	88	90	65-115	3	15	
Toluene	9.56	10.0	10.0	10.0	96	100	78-116	4	15	
Chlorobenzene	9.10	9.34	10.0	10.0	91	93	77-118	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	98	71-131			
<i>Toluene-d8</i>					98	99	80-120			
<i>4-Bromofluorobenzene</i>					93	95	80-120			

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Int					
Laboratory ID:	11-097-15					
Nitrate	ND	0.050	EPA 353.2	11-11-15	11-11-15	

Client ID:	MW-19-Deep					
Laboratory ID:	11-097-16					
Nitrate	0.066	0.050	EPA 353.2	11-11-15	11-11-15	

Client ID:	MW-19-Bottom					
Laboratory ID:	11-097-17					
Nitrate	0.063	0.050	EPA 353.2	11-11-15	11-11-15	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1111F1					
Nitrate	ND	0.050	EPA 353.2	11-11-15	11-11-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-097-15							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	12	

MATRIX SPIKE								
Laboratory ID:	11-097-15							
	MS	MS		MS				
Nitrate	2.31	2.00	ND	116	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1111F1							
	SB	SB		SB				
Nitrate	2.32	2.00	NA	116	96-119	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Int					
Laboratory ID:	11-097-15					
Sulfate	ND	5.0	ASTM D516-07	11-11-15	11-20-15	

Client ID:	MW-19-Deep					
Laboratory ID:	11-097-16					
Sulfate	6.8	5.0	ASTM D516-07	11-11-15	11-20-15	

Client ID:	MW-19-Bottom					
Laboratory ID:	11-097-17					
Sulfate	ND	5.0	ASTM D516-07	11-11-15	11-20-15	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1111F1					
Sulfate	ND	5.0	ASTM D516-07	11-11-15	11-20-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-103-17							
	ORIG	DUP						
Sulfate	10.6	10.7	NA	NA	NA	1	9	

MATRIX SPIKE								
Laboratory ID:	11-103-17							
	MS	MS		MS				
Sulfate	19.9	10.0	10.6	93	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1111F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	86-116	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Int					
Laboratory ID:	11-097-15					
Methane	4200	250	RSK 175	11-13-15	11-13-15	
Ethane	ND	250	RSK 175	11-13-15	11-13-15	
Ethene	ND	28	RSK 175	11-13-15	11-13-15	U1

Client ID:	MW-19-Deep					
Laboratory ID:	11-097-16					
Methane	1900	130	RSK 175	11-13-15	11-13-15	
Ethane	ND	130	RSK 175	11-13-15	11-13-15	
Ethene	ND	28	RSK 175	11-13-15	11-13-15	U1

Client ID:	MW-19-Bottom					
Laboratory ID:	11-097-17					
Methane	300	50	RSK 175	11-13-15	11-13-15	
Ethane	ND	50	RSK 175	11-13-15	11-13-15	
Ethene	ND	4.0	RSK 175	11-13-15	11-13-15	U1

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113W2					
Methane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1113W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.42	4.49	4.42	4.42	N/A	100	102	75-125	2	25	
Ethane	8.02	7.56	8.32	8.32	N/A	96	91	75-125	6	25	
Ethene	7.79	6.98	7.77	7.77	N/A	100	90	75-125	11	25	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Int					
Laboratory ID:	11-097-15					
Chloride	28	2.0	SM 4500-Cl E	11-11-15	11-12-15	

Client ID:	MW-19-Deep					
Laboratory ID:	11-097-16					
Chloride	14	2.0	SM 4500-Cl E	11-11-15	11-12-15	

Client ID:	MW-19-Bottom					
Laboratory ID:	11-097-17					
Chloride	62	2.0	SM 4500-Cl E	11-11-15	11-12-15	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1111F1					
Chloride	ND	2.0	SM 4500-Cl E	11-11-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Chloride	7.74	7.54	NA	NA	NA	NA	3	10

MATRIX SPIKE								
Laboratory ID:	11-081-09							
	MS	MS		MS				
Chloride	58.4	50.0	7.74	101	96-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1111F1							
	SB	SB		SB				
Chloride	50.9	50.0	NA	102	96-124	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19-Int					
Laboratory ID:	11-097-15					
Total Organic Carbon	1.4	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-19-Deep					
Laboratory ID:	11-097-16					
Total Organic Carbon	2.9	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-19-Bottom					
Laboratory ID:	11-097-17					
Total Organic Carbon	1.3	1.0	SM 5310B	11-12-15	11-12-15	

Date of Report: November 20, 2015
 Samples Submitted: November 11, 2015
 Laboratory Reference: 1511-097
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Total Organic Carbon	2.06	2.03	NA	NA	NA	1	15	

MATRIX SPIKE

Laboratory ID:	11-081-09							
	MS	MS		MS				
Total Organic Carbon	12.4		10.0	2.06	103	85-119	NA	NA

SPIKE BLANK

Laboratory ID:	SB1112W1							
	SB	SB		SB				
Total Organic Carbon	10.7		10.0	NA	107	86-115	NA	NA

Date of Report: November 20, 2015
Samples Submitted: November 11, 2015
Laboratory Reference: 1511-097
Project: 2007-098-2036

% MOISTURE

Date Analyzed: 11-12-15

Client ID	Lab ID	% Moisture
MW-19-5	11-097-01	7
MW-19-10	11-097-02	17
MW-19-15	11-097-03	16
MW-19-18	11-097-04	13
MW-19-21	11-097-05	15
MW-19-30	11-097-07	16
MW-19-40	11-097-09	24
MW-19-45	11-097-10	20
MW-19-60	11-097-11	12
MW-19-75	11-097-14	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



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

11-097

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:

Company: HWA Geosciences

Project Number: 2007-098-2036

Project Name: Rothell Service Center

Project Manager: Jose Thompson

Sampled by: Austin York

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	BSEMW-19-15 BSEMW-19-5	11-10-15	1035	Soil
2	BSEMW-19-10		1052	
3	BSEMW-19-15		1150	
4	BSEMW-19-18		1100	
5	BSEMW-19-21		1106	
6	BSEMW-19-25		1120	
7	BSEMW-19-30		1210	
8	BSEMW-19-35		1215	
9	BSEMW-19-40		1220	
10	BSEMW-19-45	11-10-15	1230	Soil

Number of Containers	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
5																X
X																X
X																X
X																X
X																X
X																X
X																X
X																X
X																X
X																X

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Austin York</i>	HWA Geosciences	11-10-15	1830	
Received	<i>Christina</i>	SPEDDY	11/11/15	13:20	
Relinquished	<i>Christina</i>	SPEDDY	11/11/15	2:05	
Received	<i>[Signature]</i>	SPEDDY	11/11/15	14:02	
Relinquished	<i>[Signature]</i>				
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/>



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

November 24, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1511-103

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 12, 2015.

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

Date of Report: November 24, 2015
Samples Submitted: November 12, 2015
Laboratory Reference: 1511-103
Project: 2007-098-2036

Case Narrative

Samples were collected on November 11, 2015 and received by the laboratory on November 12, 2015. 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 (soil) 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.

Nitrate EPA 353.3 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

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

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-10					
Laboratory ID:	11-103-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.0025	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.0020	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-10					
Laboratory ID:	11-103-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.10	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-15					
Laboratory ID:	11-103-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.025	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.036	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-15					
Laboratory ID:	11-103-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	5.6	0.13	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-20					
Laboratory ID:	11-103-04					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.0030	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.0040	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-20					
Laboratory ID:	11-103-04					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.52	0.059	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-25					
Laboratory ID:	11-103-05					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0045	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0045	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0045	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0045	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-25					
Laboratory ID:	11-103-05					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	0.0078	0.00091	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-30					
Laboratory ID:	11-103-06					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-30					
Laboratory ID:	11-103-06					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.028	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-41					
Laboratory ID:	11-103-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-41					
Laboratory ID:	11-103-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.10	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-50					
Laboratory ID:	11-103-10					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0048	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0048	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0048	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0048	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-50					
Laboratory ID:	11-103-10					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.0078	0.00097	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-60					
Laboratory ID:	11-103-11					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-60					
Laboratory ID:	11-103-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.0016	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-70					
Laboratory ID:	11-103-14					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0044	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0044	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0044	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0044	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-70					
Laboratory ID:	11-103-14					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.00098	0.00089	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-80					
Laboratory ID:	11-103-16					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-80					
Laboratory ID:	11-103-16					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.0053	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</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:	MB1121S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>60-146</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:	MB1123S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	

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 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1123S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				

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 Project: 2007-098-2036

**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:	SB1121S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0514	0.0519	0.0500	0.0500	103	104	68-126	1	15	
Benzene	0.0492	0.0516	0.0500	0.0500	98	103	75-121	5	15	
Trichloroethene	0.0457	0.0485	0.0500	0.0500	91	97	75-116	6	15	
Toluene	0.0479	0.0500	0.0500	0.0500	96	100	80-115	4	15	
Chlorobenzene	0.0463	0.0482	0.0500	0.0500	93	96	76-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>101</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>95</i>	<i>103</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>101</i>	<i>60-146</i>			

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

**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:	SB1123S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0533	0.0548	0.0500	0.0500	107	110	68-126	3	15	
Benzene	0.0508	0.0533	0.0500	0.0500	102	107	75-121	5	15	
Trichloroethene	0.0461	0.0452	0.0500	0.0500	92	90	75-116	2	15	
Toluene	0.0486	0.0509	0.0500	0.0500	97	102	80-115	5	15	
Chlorobenzene	0.0451	0.0472	0.0500	0.0500	90	94	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>108</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>97</i>	<i>107</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>96</i>	<i>106</i>	<i>60-146</i>			

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Int					
Laboratory ID:	11-103-17					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	2.1	1.0	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	2.8	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	38	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Int					
Laboratory ID:	11-103-17					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	180	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Deep					
Laboratory ID:	11-103-18					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	1.8	1.0	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroform	1.3	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	2.4	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	38	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Deep					
Laboratory ID:	11-103-18					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	180	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Bottom					
Laboratory ID:	11-103-19					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroform	11	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	1.3	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	3.0	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	38	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Bottom					
Laboratory ID:	11-103-19					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	100	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-111115					
Laboratory ID:	11-103-20					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-111115					
Laboratory ID:	11-103-20					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-120</i>				

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 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1116W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.66	9.55	10.0	10.0	97	96	62-132	1	20	
Benzene	9.78	9.85	10.0	10.0	98	99	75-121	1	15	
Trichloroethene	9.05	8.95	10.0	10.0	91	90	65-115	1	15	
Toluene	9.71	9.84	10.0	10.0	97	98	78-116	1	15	
Chlorobenzene	9.21	9.36	10.0	10.0	92	94	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	97	71-131			
<i>Toluene-d8</i>					96	96	80-120			
<i>4-Bromofluorobenzene</i>					90	94	80-120			

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Int					
Laboratory ID:	11-103-17					
Nitrate	1.8	0.050	EPA 353.2	11-12-15	11-16-15	

Client ID:	MW-21-Deep					
Laboratory ID:	11-103-18					
Nitrate	0.25	0.050	EPA 353.2	11-12-15	11-16-15	

Client ID:	MW-21-Bottom					
Laboratory ID:	11-103-19					
Nitrate	0.27	0.050	EPA 353.2	11-12-15	11-16-15	

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112F1					
Nitrate	ND	0.050	EPA 353.2	11-12-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-103-18							
	ORIG	DUP						
Nitrate	0.253	0.252	NA	NA	NA	NA	0	12

MATRIX SPIKE								
Laboratory ID:	11-103-18							
	MS	MS		MS				
Nitrate	2.32	2.00	0.253	103	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1112F1							
	SB	SB		SB				
Nitrate	2.17	2.00	NA	109	96-119	NA	NA	

Date of Report: November 24, 2015
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SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Int					
Laboratory ID:	11-103-17					
Sulfate	11	5.0	ASTM D516-07	11-12-15	11-20-15	

Client ID:	MW-21-Deep					
Laboratory ID:	11-103-18					
Sulfate	6.3	5.0	ASTM D516-07	11-12-15	11-20-15	

Client ID:	MW-21-Bottom					
Laboratory ID:	11-103-19					
Sulfate	ND	5.0	ASTM D516-07	11-12-15	11-20-15	

Date of Report: November 24, 2015
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**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112F1					
Sulfate	ND	5.0	ASTM D516-07	11-12-15	11-20-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-103-17							
	ORIG	DUP						
Sulfate	10.6	10.7	NA	NA	NA	1	9	

MATRIX SPIKE								
Laboratory ID:	11-103-17							
	MS	MS		MS				
Sulfate	19.9	10.0	10.6	93	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1111F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	86-116	NA	NA	

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Int					
Laboratory ID:	11-103-17					
Chloride	41	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Client ID:	MW-21-Deep					
Laboratory ID:	11-103-18					
Chloride	11	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Client ID:	MW-21-Bottom					
Laboratory ID:	11-103-19					
Chloride	8.8	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112F1					
Chloride	ND	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Chloride	7.74	7.54	NA	NA	NA	NA	3	10

MATRIX SPIKE								
Laboratory ID:	11-081-09							
	MS	MS		MS				
Chloride	58.4	50.0	7.74	101	96-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1112F1							
	SB	SB		SB				
Chloride	49.7	50.0	NA	99	96-124	NA	NA	

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Int					
Laboratory ID:	11-103-17					
Methane	1800	130	RSK 175	11-13-15	11-13-15	
Ethane	ND	130	RSK 175	11-13-15	11-13-15	
Ethene	ND	15	RSK 175	11-13-15	11-13-15	U1

Client ID:	MW-21-Deep					
Laboratory ID:	11-103-18					
Methane	460	50	RSK 175	11-13-15	11-13-15	
Ethane	ND	50	RSK 175	11-13-15	11-13-15	
Ethene	ND	6.0	RSK 175	11-13-15	11-13-15	U1

Client ID:	MW-21-Bottom					
Laboratory ID:	11-103-19					
Methane	30	3.0	RSK 175	11-13-15	11-13-15	
Ethane	3.1	3.0	RSK 175	11-13-15	11-13-15	
Ethene	0.87	0.50	RSK 175	11-13-15	11-13-15	

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113W2					
Methane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1113W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.42	4.49	4.42	4.42	N/A	100	102	75-125	2	25	
Ethane	8.02	7.56	8.32	8.32	N/A	96	91	75-125	6	25	
Ethene	7.79	6.98	7.77	7.77	N/A	100	90	75-125	11	25	

Date of Report: November 24, 2015
Samples Submitted: November 12, 2015
Laboratory Reference: 1511-103
Project: 2007-098-2036

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-Int					
Laboratory ID:	11-103-17					
Total Organic Carbon	2.2	1.0	SM 5310B	11-12-15	11-12-15	

Client ID:	MW-21-Deep					
Laboratory ID:	11-103-18					
Total Organic Carbon	1.8	1.0	SM 5310B	11-12-15	11-12-15	

Client ID:	MW-21-Bottom					
Laboratory ID:	11-103-19					
Total Organic Carbon	2.5	1.0	SM 5310B	11-12-15	11-12-15	

Date of Report: November 24, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-103
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Total Organic Carbon	2.06	2.03	NA	NA	NA	NA	1	15

MATRIX SPIKE

Laboratory ID:	11-081-09							
	MS	MS		MS				
Total Organic Carbon	12.4		10.0	2.06	103	85-119	NA	NA

SPIKE BLANK

Laboratory ID:	SB1112W1							
	SB	SB		SB				
Total Organic Carbon	10.7		10.0	NA	107	86-115	NA	NA

Date of Report: November 24, 2015
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Project: 2007-098-2036

% MOISTURE

Date Analyzed: 11-20-15

Client ID	Lab ID	% Moisture
MW-21-10	11-103-02	20
MW-21-15	11-103-03	18
MW-21-20	11-103-04	15
MW-21-25	11-103-05	12
MW-21-30	11-103-06	17
MW-21-41	11-103-08	20
MW-21-50	11-103-10	14
MW-21-60	11-103-11	17
MW-21-70	11-103-14	10
MW-21-80	11-103-16	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



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

November 20, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1511-104

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 12, 2015.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 20, 2015
Samples Submitted: November 12, 2015
Laboratory Reference: 1511-104
Project: 2007-098-2036

Case Narrative

Samples were collected on November 11, 2015 and received by the laboratory on November 12, 2015. 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.

Nitrate EPA 353.3 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite 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: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-104
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4					
Laboratory ID:	11-104-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	0.44	0.20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	1.7	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	0.51	0.20	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	3.5	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-104
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4					
Laboratory ID:	11-104-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	0.27	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: November 20, 2015
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 Laboratory Reference: 1511-104
 Project: 2007-098-2036

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-19					
Laboratory ID:	11-104-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	1.7	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	1.1	0.20	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	0.77	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	3.5	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-19					
Laboratory ID:	11-104-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	0.60	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14 S					
Laboratory ID:	11-104-03					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	10	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	85	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	50	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	14	10	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	26	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	180	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14 S					
Laboratory ID:	11-104-03					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	970	10	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	50	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	71-131				
<i>Toluene-d8</i>	93	80-120				
<i>4-Bromofluorobenzene</i>	85	80-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14 D					
Laboratory ID:	11-104-04					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	2.0	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	2.0	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	3.4	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	2.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	8.6	0.40	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	3.1	0.40	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	7.0	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14 D					
Laboratory ID:	11-104-04					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	75	0.40	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	2.0	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	71-131				
<i>Toluene-d8</i>	93	80-120				
<i>4-Bromofluorobenzene</i>	87	80-120				

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HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1113W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	1.7	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	3.5	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	

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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:	MB1113W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-120</i>				

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-104
 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1113W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.4	9.47	10.0	10.0	104	95	62-132	9	20	
Benzene	10.5	9.81	10.0	10.0	105	98	75-121	7	15	
Trichloroethene	9.80	8.78	10.0	10.0	98	88	65-115	11	15	
Toluene	10.5	9.70	10.0	10.0	105	97	78-116	8	15	
Chlorobenzene	9.80	9.09	10.0	10.0	98	91	77-118	8	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	103	71-131			
Toluene-d8					98	97	80-120			
4-Bromofluorobenzene					91	93	80-120			

Date of Report: November 20, 2015
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 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4					
Laboratory ID:	11-104-01					
Total Organic Carbon	2.3	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	HZ-MW-19					
Laboratory ID:	11-104-02					
Total Organic Carbon	8.4	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	HZ-MW-14 S					
Laboratory ID:	11-104-03					
Total Organic Carbon	2.2	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	HZ-MW-14 D					
Laboratory ID:	11-104-04					
Total Organic Carbon	1.2	1.0	SM 5310B	11-12-15	11-12-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-104
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Total Organic Carbon	2.06	2.03	NA	NA	NA	1	15	

MATRIX SPIKE

Laboratory ID:	11-081-09							
	MS	MS		MS				
Total Organic Carbon	12.4		10.0	2.06	103	85-119	NA	NA

SPIKE BLANK

Laboratory ID:	SB1112W1							
	SB	SB		SB				
Total Organic Carbon	10.7		10.0	NA	107	86-115	NA	NA

Date of Report: November 20, 2015
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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4					
Laboratory ID:	11-104-01					
Nitrate	2.4	0.050	EPA 353.2	11-12-15	11-16-15	

Client ID:	HZ-MW-19					
Laboratory ID:	11-104-02					
Nitrate	0.084	0.050	EPA 353.2	11-12-15	11-16-15	

Client ID:	HZ-MW-14 S					
Laboratory ID:	11-104-03					
Nitrate	0.065	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	HZ-MW-14 D					
Laboratory ID:	11-104-04					
Nitrate	0.058	0.050	EPA 353.2	11-12-15	11-16-15	

Date of Report: November 20, 2015
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 Project: 2007-098-2036

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	
METHOD BLANK						
Laboratory ID:	MB1112F1					
Nitrate	ND	0.050	EPA 353.2	11-12-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-02							
	ORIG	DUP						
Nitrate	0.668	0.669	NA	NA	NA	0	12	
DUPLICATE								
Laboratory ID:	11-119-03							
	ORIG	DUP						
Nitrate	0.146	0.137	NA	NA	NA	6	12	
MATRIX SPIKE								
Laboratory ID:	11-119-02							
	MS	MS		MS				
Nitrate	2.72	2.00	0.668	103	94-125	NA	NA	
MATRIX SPIKE								
Laboratory ID:	11-119-03							
	MS	MS		MS				
Nitrate	2.27	2.00	0.146	106	94-125	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Nitrate	2.10	2.00	NA	105	96-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1113F1							
	SB	SB		SB				
Nitrate	2.09	2.00	NA	105	96-119	NA	NA	

Date of Report: November 20, 2015
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SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4					
Laboratory ID:	11-104-01					
Sulfate	23	5.0	ASTM D516-07	11-12-15	11-20-15	

Client ID:	HZ-MW-19					
Laboratory ID:	11-104-02					
Sulfate	25	10	ASTM D516-07	11-12-15	11-20-15	

Client ID:	HZ-MW-14 S					
Laboratory ID:	11-104-03					
Sulfate	30	25	ASTM D516-07	11-20-15	11-20-15	

Client ID:	HZ-MW-14 D					
Laboratory ID:	11-104-04					
Sulfate	12	5.0	ASTM D516-07	11-12-15	11-20-15	

Date of Report: November 20, 2015
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**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112F1					
Sulfate	ND	5.0	ASTM D516-07	11-12-15	11-20-15	
Laboratory ID:	MB1120W1					
Sulfate	ND	5.0	ASTM D516-07	11-20-15	11-20-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-103-17							
	ORIG	DUP						
Sulfate	10.6	10.7	NA	NA	NA	1	9	
Laboratory ID:	11-104-03							
	ORIG	DUP						
Sulfate	29.7	31.6	NA	NA	NA	6	9	
MATRIX SPIKE								
Laboratory ID:	11-103-17							
	MS	MS		MS				
Sulfate	19.9	10.0	10.6	93	79-126	NA	NA	
Laboratory ID:	11-104-03							
	MS	MS		MS				
Sulfate	75.4	50.0	29.7	91	79-126	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1111F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	86-116	NA	NA	
Laboratory ID:	SB1120W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	86-116	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4					
Laboratory ID:	11-104-01					
Chloride	4.2	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Client ID:	HZ-MW-19					
Laboratory ID:	11-104-02					
Chloride	9.7	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Client ID:	HZ-MW-14 S					
Laboratory ID:	11-104-03					
Chloride	10	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Client ID:	HZ-MW-14 D					
Laboratory ID:	11-104-04					
Chloride	33	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112F1					
Chloride	ND	2.0	SM 4500-Cl E	11-12-15	11-12-15	
METHOD BLANK						
Laboratory ID:	MB1112W1					
Chloride	ND	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Chloride	7.74	7.54	NA	NA	NA	3	10	
DUPLICATE								
Laboratory ID:	11-104-03							
	ORIG	DUP						
Chloride	10.2	10.3	NA	NA	NA	1	10	
MATRIX SPIKE								
Laboratory ID:	11-081-09							
	MS	MS		MS				
Chloride	58.4	50.0	7.74	101	96-126	NA	NA	
MATRIX SPIKE								
Laboratory ID:	11-104-03							
	MS	MS		MS				
Chloride	59.6	50.0	10.2	99	96-126	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1110F1							
	SB	SB		SB				
Chloride	52.0	50.0	NA	104	96-124	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1112W1							
	SB	SB		SB				
Chloride	51.4	50.0	NA	103	96-124	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-104
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4					
Laboratory ID:	11-104-01					
Methane	1.3	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Client ID:	HZ-MW-19					
Laboratory ID:	11-104-02					
Methane	11	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Client ID:	HZ-MW-14 S					
Laboratory ID:	11-104-03					
Methane	170	15	RSK 175	11-13-15	11-13-15	
Ethane	ND	15	RSK 175	11-13-15	11-13-15	
Ethene	ND	2.0	RSK 175	11-13-15	11-13-15	U1

Client ID:	HZ-MW-14 D					
Laboratory ID:	11-104-04					
Methane	69	15	RSK 175	11-13-15	11-13-15	
Ethane	ND	15	RSK 175	11-13-15	11-13-15	
Ethene	ND	1.0	RSK 175	11-13-15	11-13-15	U1

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-104
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113W2					
Methane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1113W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.42	4.49	4.42	4.42	N/A	100	102	75-125	2	25	
Ethane	8.02	7.56	8.32	8.32	N/A	96	91	75-125	6	25	
Ethene	7.79	6.98	7.77	7.77	N/A	100	90	75-125	11	25	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - 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

November 20, 2015

Arnie Sugar
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1511-105

Dear Arnie:

Enclosed are the analytical results and associated quality control data for samples submitted on November 12, 2015.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 20, 2015
Samples Submitted: November 12, 2015
Laboratory Reference: 1511-105
Project: 2007-098-2036

Case Narrative

Samples were collected on November 11, 2015 and received by the laboratory on November 12, 2015. 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.

Nitrate EPA 353.3 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Sulfate ASTM D516-07 Analysis

Sample MW-6 (11-105-02) PQL was increased due to sample interference.

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

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	11-105-01					
Dichlorodifluoromethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	250	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	50	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	250	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	50	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	50	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	430	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	250	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	50	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	87	50	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	50	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	50	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	92	50	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	50	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	50	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	880	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	11-13-15	11-13-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
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 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	11-105-01					
1,1,2-Trichloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	14000	200	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	50	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	250	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	50	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	50	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	250	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	11-105-02					
Dichlorodifluoromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	100	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	2900	20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	100	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	170	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	100	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	22	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	3800	20	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	350	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	11-105-02					
1,1,2-Trichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	26	20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	100	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	71-131				
<i>Toluene-d8</i>	95	80-120				
<i>4-Bromofluorobenzene</i>	88	80-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	11-105-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	0.41	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	11-105-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	4.1	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	11-105-04					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	5.0	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	5.0	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	8.5	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	160	1.0	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	50	1.0	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	18	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	11-105-04					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	180	1.0	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	5.0	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	71-131				
<i>Toluene-d8</i>	93	80-120				
<i>4-Bromofluorobenzene</i>	87	80-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	11-105-05					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	10	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	50	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	85	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	50	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	240	10	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	42	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	180	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	11-105-05					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	950	10	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	50	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	71-131				
<i>Toluene-d8</i>	93	80-120				
<i>4-Bromofluorobenzene</i>	88	80-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	11-105-06					
Dichlorodifluoromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	100	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	1200	20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	100	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	170	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	100	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	84	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	15000	100	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	4100	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	350	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	11-105-06					
1,1,2-Trichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	2400	20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	100	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	11-105-07					
Dichlorodifluoromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	100	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	100	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	170	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	100	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	1100	20	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	180	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	350	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12					
Laboratory ID:	11-105-07					
1,1,2-Trichloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	2900	20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	100	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	11-105-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	1.7	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	3.5	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blanks					
Laboratory ID:	11-105-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1113W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloromethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroethane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Iodomethane	ND	1.7	EPA 8260C	11-13-15	11-13-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-13-15	11-13-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chloroform	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Trichloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromomethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chloroethyl Vinyl Ether	ND	3.5	EPA 8260C	11-13-15	11-13-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-13-15	11-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1113W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Bromoform	ND	1.0	EPA 8260C	11-13-15	11-13-15	
Bromobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-13-15	11-13-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-13-15	11-13-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-13-15	11-13-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1116W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1113W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.4	9.47	10.0	10.0	104	95	62-132	9	20	
Benzene	10.5	9.81	10.0	10.0	105	98	75-121	7	15	
Trichloroethene	9.80	8.78	10.0	10.0	98	88	65-115	11	15	
Toluene	10.5	9.70	10.0	10.0	105	97	78-116	8	15	
Chlorobenzene	9.80	9.09	10.0	10.0	98	91	77-118	8	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	103	71-131			
Toluene-d8					98	97	80-120			
4-Bromofluorobenzene					91	93	80-120			

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
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 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1116W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.66	9.55	10.0	10.0	97	96	62-132	1	20	
Benzene	9.78	9.85	10.0	10.0	98	99	75-121	1	15	
Trichloroethene	9.05	8.95	10.0	10.0	91	90	65-115	1	15	
Toluene	9.71	9.84	10.0	10.0	97	98	78-116	1	15	
Chlorobenzene	9.21	9.36	10.0	10.0	92	94	77-118	2	15	
<i>Surrogate:</i>										
Dibromofluoromethane					94	97	71-131			
Toluene-d8					96	96	80-120			
4-Bromofluorobenzene					90	94	80-120			

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

**NITRATE (as Nitrogen)
 EPA 353.2**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	11-105-01					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-6					
Laboratory ID:	11-105-02					
Nitrate	0.052	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-11					
Laboratory ID:	11-105-03					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-8					
Laboratory ID:	11-105-04					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-7					
Laboratory ID:	11-105-05					
Nitrate	0.056	0.050	EPA 353.2	11-12-15	11-16-15	

Client ID:	MW-2					
Laboratory ID:	11-105-06					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-12					
Laboratory ID:	11-105-07					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	
METHOD BLANK						
Laboratory ID:	MB1112F1					
Nitrate	ND	0.050	EPA 353.2	11-12-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-02							
	ORIG	DUP						
Nitrate	0.668	0.669	NA	NA	NA	0	12	
DUPLICATE								
Laboratory ID:	11-119-03							
	ORIG	DUP						
Nitrate	0.146	0.137	NA	NA	NA	6	12	
MATRIX SPIKE								
Laboratory ID:	11-119-02							
	MS	MS		MS				
Nitrate	2.72	2.00	0.668	103	94-125	NA	NA	
MATRIX SPIKE								
Laboratory ID:	11-119-03							
	MS	MS		MS				
Nitrate	2.27	2.00	0.146	106	94-125	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Nitrate	2.10	2.00	NA	105	96-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1113F1							
	SB	SB		SB				
Nitrate	2.09	2.00	NA	105	96-119	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	11-105-01					
Sulfate	19	10	ASTM D516-07	11-20-15	11-20-15	

Client ID:	MW-6					
Laboratory ID:	11-105-02					
Sulfate	ND	10	ASTM D516-07	11-20-15	11-20-15	

Client ID:	MW-11					
Laboratory ID:	11-105-03					
Sulfate	18	5.0	ASTM D516-07	11-20-15	11-20-15	

Client ID:	MW-8					
Laboratory ID:	11-105-04					
Sulfate	13	5.0	ASTM D516-07	11-12-15	11-20-15	

Client ID:	MW-7					
Laboratory ID:	11-105-05					
Sulfate	16	10	ASTM D516-07	11-20-15	11-20-15	

Client ID:	MW-2					
Laboratory ID:	11-105-06					
Sulfate	39	10	ASTM D516-07	11-20-15	11-20-15	

Client ID:	MW-12					
Laboratory ID:	11-105-07					
Sulfate	16	5.0	ASTM D516-07	11-20-15	11-20-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112F1					
Sulfate	ND	5.0	ASTM D516-07	11-12-15	11-20-15	

Laboratory ID:	MB1120W1					
Sulfate	ND	5.0	ASTM D516-07	11-20-15	11-20-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-103-17							
	ORIG	DUP						
Sulfate	10.6	10.7	NA	NA	NA	1	9	

Laboratory ID:	11-104-03							
	ORIG	DUP						
Sulfate	29.7	31.6	NA	NA	NA	6	9	

MATRIX SPIKE								
Laboratory ID:	11-103-17							
	MS	MS		MS				
Sulfate	19.9	10.0	10.6	93	79-126	NA	NA	
Laboratory ID:	11-104-03							
	MS	MS		MS				
Sulfate	75.4	50.0	29.7	91	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1111F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	86-116	NA	NA	
Laboratory ID:	SB1120W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	86-116	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	11-105-01					
Chloride	15	2.0	SM 4500-Cl E	11-12-15	11-12-15	
Client ID:	MW-6					
Laboratory ID:	11-105-02					
Chloride	50	2.0	SM 4500-Cl E	11-12-15	11-12-15	
Client ID:	MW-11					
Laboratory ID:	11-105-03					
Chloride	86	2.0	SM 4500-Cl E	11-12-15	11-12-15	
Client ID:	MW-8					
Laboratory ID:	11-105-04					
Chloride	11	2.0	SM 4500-Cl E	11-12-15	11-12-15	
Client ID:	MW-7					
Laboratory ID:	11-105-05					
Chloride	5.7	2.0	SM 4500-Cl E	11-12-15	11-12-15	
Client ID:	MW-2					
Laboratory ID:	11-105-06					
Chloride	38	2.0	SM 4500-Cl E	11-12-15	11-12-15	
Client ID:	MW-12					
Laboratory ID:	11-105-07					
Chloride	14	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Date of Report: November 20, 2015
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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112F1					
Chloride	ND	2.0	SM 4500-Cl E	11-12-15	11-12-15	
METHOD BLANK						
Laboratory ID:	MB1112W1					
Chloride	ND	2.0	SM 4500-Cl E	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Chloride	7.74	7.54	NA	NA	NA	3	10	
DUPLICATE								
Laboratory ID:	11-104-03							
	ORIG	DUP						
Chloride	10.2	10.3	NA	NA	NA	1	10	
MATRIX SPIKE								
Laboratory ID:	11-081-09							
	MS	MS		MS				
Chloride	58.4	50.0	7.74	101	96-126	NA	NA	
MATRIX SPIKE								
Laboratory ID:	11-104-03							
	MS	MS		MS				
Chloride	59.6	50.0	10.2	99	96-126	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1112F1							
	SB	SB		SB				
Chloride	49.7	50.0	NA	99	96-124	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1112W1							
	SB	SB		SB				
Chloride	51.4	50.0	NA	103	96-124	NA	NA	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
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**DISSOLVED GASES
RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	11-105-01					
Methane	0.76	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Client ID:	MW-6					
Laboratory ID:	11-105-02					
Methane	3400	250	RSK 175	11-13-15	11-13-15	
Ethane	ND	250	RSK 175	11-13-15	11-13-15	
Ethene	850	250	RSK 175	11-13-15	11-13-15	

Client ID:	MW-11					
Laboratory ID:	11-105-03					
Methane	840	50	RSK 175	11-13-15	11-13-15	
Ethane	ND	50	RSK 175	11-13-15	11-13-15	
Ethene	ND	7.0	RSK 175	11-13-15	11-13-15	U1

Client ID:	MW-8					
Laboratory ID:	11-105-04					
Methane	19	1.0	RSK 175	11-13-15	11-13-15	
Ethane	ND	1.0	RSK 175	11-13-15	11-13-15	
Ethene	0.59	0.50	RSK 175	11-13-15	11-13-15	

Client ID:	MW-7					
Laboratory ID:	11-105-05					
Methane	290	25	RSK 175	11-13-15	11-13-15	
Ethane	ND	25	RSK 175	11-13-15	11-13-15	
Ethene	ND	2.0	RSK 175	11-13-15	11-13-15	U1

Client ID:	MW-2					
Laboratory ID:	11-105-06					
Methane	5900	380	RSK 175	11-13-15	11-13-15	
Ethane	ND	380	RSK 175	11-13-15	11-13-15	
Ethene	580	380	RSK 175	11-13-15	11-13-15	

Client ID:	MW-12					
Laboratory ID:	11-105-07					
Methane	3000	150	RSK 175	11-13-15	11-13-15	
Ethane	ND	150	RSK 175	11-13-15	11-13-15	
Ethene	ND	18	RSK 175	11-13-15	11-13-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113W2					
Methane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethane	ND	0.50	RSK 175	11-13-15	11-13-15	
Ethene	ND	0.50	RSK 175	11-13-15	11-13-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1113W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.42	4.49	4.42	4.42	N/A	100	102	75-125	2	25	
Ethane	8.02	7.56	8.32	8.32	N/A	96	91	75-125	6	25	
Ethene	7.79	6.98	7.77	7.77	N/A	100	90	75-125	11	25	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	11-105-01					
Total Organic Carbon	2.9	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-6					
Laboratory ID:	11-105-02					
Total Organic Carbon	11	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-11					
Laboratory ID:	11-105-03					
Total Organic Carbon	4.5	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-8					
Laboratory ID:	11-105-04					
Total Organic Carbon	2.2	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-7					
Laboratory ID:	11-105-05					
Total Organic Carbon	2.5	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-2					
Laboratory ID:	11-105-06					
Total Organic Carbon	11	1.0	SM 5310B	11-12-15	11-12-15	
Client ID:	MW-12					
Laboratory ID:	11-105-07					
Total Organic Carbon	2.2	1.0	SM 5310B	11-12-15	11-12-15	

Date of Report: November 20, 2015
 Samples Submitted: November 12, 2015
 Laboratory Reference: 1511-105
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1112W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-12-15	11-12-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-081-09							
	ORIG	DUP						
Total Organic Carbon	2.06	2.03	NA	NA	NA	NA	1	15

MATRIX SPIKE								
Laboratory ID:	11-081-09							
	MS	MS		MS				
Total Organic Carbon	12.4	10.0	2.06	103	85-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1112W1							
	SB	SB		SB				
Total Organic Carbon	10.7	10.0	NA	107	86-115	NA	NA	



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

November 24, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1511-118

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 13, 2015.

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

Date of Report: November 24, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-118
Project: 2007-098-2036

Case Narrative

Samples were collected on November 12, 2015 and received by the laboratory on November 13, 2015. 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 (soil) 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.

Method 5035A VOA vials were not provided for sample MW-22-30. The sample was therefore extracted from a 4-ounce jar and analyzed. Some loss of volatiles may have occurred.

Nitrate EPA 353.3 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

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

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-14					
Laboratory ID:	11-118-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.0071	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.096	0.066	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-14					
Laboratory ID:	11-118-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	4.9	0.066	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-17					
Laboratory ID:	11-118-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.028	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.037	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-17					
Laboratory ID:	11-118-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	3.6	0.12	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-19					
Laboratory ID:	11-118-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.0060	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.0089	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0071	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21-19					
Laboratory ID:	11-118-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	1.6	0.063	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-5.5					
Laboratory ID:	11-118-04					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0052	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0052	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0052	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0052	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-5.5					
Laboratory ID:	11-118-04					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	0.0011	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-9.5					
Laboratory ID:	11-118-05					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0049	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0049	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0049	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0049	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-9.5					
Laboratory ID:	11-118-05					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>119</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-13.5					
Laboratory ID:	11-118-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0058	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0058	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0058	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0058	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	0.0020	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.31	0.14	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.46	0.14	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-13.5					
Laboratory ID:	11-118-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	8.4	0.14	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-15.5					
Laboratory ID:	11-118-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.30	0.13	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.51	0.13	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-15.5					
Laboratory ID:	11-118-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	9.7	0.13	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-16.5					
Laboratory ID:	11-118-08					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	0.0016	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.34	0.12	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.33	0.12	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-16.5					
Laboratory ID:	11-118-08					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	5.5	0.12	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-21.5					
Laboratory ID:	11-118-09					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0051	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0051	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0051	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0051	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	0.0012	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-21.5					
Laboratory ID:	11-118-09					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	0.064	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-25.5					
Laboratory ID:	11-118-10					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0056	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0056	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0056	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0056	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-25.5					
Laboratory ID:	11-118-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	0.0025	0.0011	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-30					
Laboratory ID:	11-118-11					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0061	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0061	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0061	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0061	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	0.0041	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	0.0045	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-30					
Laboratory ID:	11-118-11					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.11	0.0012	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-40					
Laboratory ID:	11-118-12					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0053	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0053	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0053	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0053	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-40					
Laboratory ID:	11-118-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-46					
Laboratory ID:	11-118-13					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-46					
Laboratory ID:	11-118-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.011	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-49.5					
Laboratory ID:	11-118-14					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0071	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-49.5					
Laboratory ID:	11-118-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.0013	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	76-131				
<i>Toluene-d8</i>	96	80-126				
<i>4-Bromofluorobenzene</i>	96	60-146				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-59.5					
Laboratory ID:	11-118-15					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-59.5					
Laboratory ID:	11-118-15					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	0.0035	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>60-146</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloromethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Iodomethane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chloroform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	11-21-15	11-21-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1121S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromoform	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-21-15	11-21-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-15	11-21-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				

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 Project: 2007-098-2036

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1123S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloromethane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroethane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Iodomethane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
Methylene Chloride	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chloroform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Trichloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromomethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	

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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:	MB1123S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Chlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromoform	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Bromobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-23-15	11-23-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-15	11-23-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**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:	SB1121S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0557	0.0540	0.0500	0.0500	111	108	68-126	3	15	
Benzene	0.0516	0.0506	0.0500	0.0500	103	101	75-121	2	15	
Trichloroethene	0.0503	0.0485	0.0500	0.0500	101	97	75-116	4	15	
Toluene	0.0516	0.0498	0.0500	0.0500	103	100	80-115	4	15	
Chlorobenzene	0.0495	0.0479	0.0500	0.0500	99	96	76-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	94	76-131			
<i>Toluene-d8</i>					100	94	80-126			
<i>4-Bromofluorobenzene</i>					100	96	60-146			

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**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:	SB1123S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0533	0.0548	0.0500	0.0500	107	110	68-126	3	15	
Benzene	0.0508	0.0533	0.0500	0.0500	102	107	75-121	5	15	
Trichloroethene	0.0461	0.0452	0.0500	0.0500	92	90	75-116	2	15	
Toluene	0.0486	0.0509	0.0500	0.0500	97	102	80-115	5	15	
Chlorobenzene	0.0451	0.0472	0.0500	0.0500	90	94	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>108</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>97</i>	<i>107</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>96</i>	<i>106</i>	<i>60-146</i>			

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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Int.					
Laboratory ID:	11-118-16					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	1.9	1.0	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	3.2	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	38	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Int.					
Laboratory ID:	11-118-16					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	110	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-120</i>				

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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Deep					
Laboratory ID:	11-118-17					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	4.2	1.0	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroform	1.8	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	4.1	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	38	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Deep					
Laboratory ID:	11-118-17					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	130	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-120</i>				

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
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 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-118-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-118-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-120</i>				

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1116W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.66	9.55	10.0	10.0	97	96	62-132	1	20	
Benzene	9.78	9.85	10.0	10.0	98	99	75-121	1	15	
Trichloroethene	9.05	8.95	10.0	10.0	91	90	65-115	1	15	
Toluene	9.71	9.84	10.0	10.0	97	98	78-116	1	15	
Chlorobenzene	9.21	9.36	10.0	10.0	92	94	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	97	71-131			
<i>Toluene-d8</i>					96	96	80-120			
<i>4-Bromofluorobenzene</i>					90	94	80-120			

Date of Report: November 24, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-118
Project: 2007-098-2036

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Int.					
Laboratory ID:	11-118-16					
Nitrate	0.20	0.050	EPA 353.2	11-13-15	11-16-15	

Client ID:	MW-22-Deep					
Laboratory ID:	11-118-17					
Nitrate	0.18	0.050	EPA 353.2	11-13-15	11-16-15	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113F1					
Nitrate	ND	0.050	EPA 353.2	11-13-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-03							
	ORIG	DUP						
Nitrate	0.146	0.137	NA	NA	NA	NA	6	12

MATRIX SPIKE								
Laboratory ID:	11-119-03							
	MS	MS		MS				
Nitrate	2.27	2.00	0.146	106	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB11113F1							
	SB	SB		SB				
Nitrate	2.09	2.00	NA	105	96-119	NA	NA	

Date of Report: November 24, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-118
Project: 2007-098-2036

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Int.					
Laboratory ID:	11-118-16					
Sulfate	10	5.0	ASTM D516-07	11-13-15	11-18-15	

Client ID:	MW-22-Deep					
Laboratory ID:	11-118-17					
Sulfate	7.4	5.0	ASTM D516-07	11-13-15	11-18-15	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113F1					
Sulfate	ND	5.0	ASTM D516-07	11-13-15	11-18-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-03							
	ORIG	DUP						
Sulfate	25.7	26.4	NA	NA	NA	3	9	

MATRIX SPIKE								
Laboratory ID:	11-119-03							
	MS	MS		MS				
Sulfate	43.9	20.0	25.7	91	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1113F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	86-116	NA	NA	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Int.					
Laboratory ID:	11-118-16					
Methane	470	50	RSK 175	11-16-15	11-16-15	
Ethane	ND	50	RSK 175	11-16-15	11-16-15	
Ethene	ND	5.0	RSK 175	11-16-15	11-16-15	U1

Client ID:	MW-22-Deep					
Laboratory ID:	11-118-17					
Methane	390	50	RSK 175	11-16-15	11-16-15	
Ethane	ND	50	RSK 175	11-16-15	11-16-15	
Ethene	4.9	0.50	RSK 175	11-16-15	11-16-15	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB116W1					
Methane	ND	0.50	RSK 175	11-16-15	11-16-15	
Ethane	ND	0.50	RSK 175	11-16-15	11-16-15	
Ethene	ND	0.50	RSK 175	11-16-15	11-16-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1116W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.12	4.47	4.42	4.42	N/A	93	101	75-125	8	25	
Ethane	7.77	8.22	8.32	8.32	N/A	93	99	75-125	6	25	
Ethene	7.56	9.23	7.77	7.77	N/A	97	119	75-125	20	25	

Date of Report: November 24, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-118
Project: 2007-098-2036

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Int.					
Laboratory ID:	11-118-16					
Chloride	64	2.0	SM 4500-Cl E	11-13-15	11-17-15	

Client ID:	MW-22-Deep					
Laboratory ID:	11-118-17					
Chloride	12	2.0	SM 4500-Cl E	11-13-15	11-17-15	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1113F1					
Chloride	ND	2.0	SM 4500-Cl E	11-13-15	11-17-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-03							
	ORIG	DUP						
Chloride	27.0	27.0	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	11-119-03							
	MS	MS		MS				
Chloride	79.6	50.0	27.0	105	96-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1113F1							
	SB	SB		SB				
Chloride	52.3	50.0	NA	105	96-124	NA	NA	

Date of Report: November 24, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-118
Project: 2007-098-2036

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22-Int.					
Laboratory ID:	11-118-16					
Total Organic Carbon	ND	1.0	SM 5310B	11-16-15	11-16-15	

Client ID:	MW-22-Deep					
Laboratory ID:	11-118-17					
Total Organic Carbon	2.3	1.0	SM 5310B	11-16-15	11-16-15	

Date of Report: November 24, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-118
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-16-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-01							
	ORIG	DUP						
Total Organic Carbon	1.39	1.37	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	11-119-01							
	MS	MS		MS				
Total Organic Carbon	11.5	10.0	1.39	101	85-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Total Organic Carbon	10.9	10.0	NA	109	86-115	NA	NA	

Date of Report: November 24, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-118
Project: 2007-098-2036

% MOISTURE

Date Analyzed: 11-20-15

Client ID	Lab ID	% Moisture
MW-21-14	11-118-01	18
MW-21-17	11-118-02	16
MW-21-19	11-118-03	18
MW-22-5.5	11-118-04	15
MW-22-9.5	11-118-05	15
MW-22-13.5	11-118-06	19
MW-22-15.5	11-118-07	19
MW-22-16.5	11-118-08	15
MW-22-21.5	11-118-09	15
MW-22-25.5	11-118-10	17
MW-22-30	11-118-11	21
MW-22-40	11-118-12	16
MW-22-46	11-118-13	20
MW-22-49.5	11-118-14	16
MW-22-59.5	11-118-15	15



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

11-118

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:

Number of Containers

Archive

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx

Volatiles 8260C

Halogenated Volatiles 8280C

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

Nitrate

Sulfate

Methane, Ethane, Ethene

Chloride

TOC

% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analysis	Comments/Special Instructions
11	MW-22-30	11-12-15	1258	Soil	2	X	
12	MW-22-40		1450		5	X	
13	MW-22-46		1455		5	X	
14	MW-22-49.5		1500		5	X	
15	MW-22-59.5		1505	Soil	4	X	
16	MW-22-Int.		1205	Water	7	X	
17	MW-22-Deep		1442	Water	7	X	
18	Trip Blank	11-12-15		Water	3	X	
	Signature	Company	Date	Time	Comments/Special Instructions		
Received	<i>Austin Oyer</i>	HWA Geosciences	11-12-15	1730			
Relinquished							
Received	<i>[Signature]</i>	Spady	11/13/15	10:10			
Relinquished		Spady	11/13/15	11:21			
Received	<i>[Signature]</i>	O'Steen	11/13/15	12:1			
Relinquished							
Received							
Relinquished							
Reviewed/Date		Reviewed/Date	Chromatograms with final report <input type="checkbox"/>				



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

November 18, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1511-119

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 13, 2015.

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

Date of Report: November 18, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-119
Project: 2007-098-2036

Case Narrative

Samples were collected on November 12, 2015 and received by the laboratory on November 13, 2015. 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.

Nitrate EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of the samples was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Sulfate ASTM D516-07 Analysis

Samples Dup and BSC-MW-14L (11-119-04 &06) PQL's were increased due to sample interference.

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

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-4S					
Laboratory ID:	11-119-01					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	50	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	1100	10	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	120	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	380	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-4S					
Laboratory ID:	11-119-01					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	960	10	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	50	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	71-131				
<i>Toluene-d8</i>	92	80-120				
<i>4-Bromofluorobenzene</i>	86	80-120				

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 Project: 2007-098-2036

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-5S					
Laboratory ID:	11-119-02					
Dichlorodifluoromethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	100	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	100	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	100	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	100	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	76	20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	93	20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	750	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-5S					
Laboratory ID:	11-119-02					
1,1,2-Trichloroethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	2200	20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	100	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15S					
Laboratory ID:	11-119-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	5.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	4.2	1.0	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	4.9	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	38	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15S					
Laboratory ID:	11-119-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	110	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	5.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup					
Laboratory ID:	11-119-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup					
Laboratory ID:	11-119-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15D					
Laboratory ID:	11-119-05					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	50	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	100	10	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	120	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	380	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15D					
Laboratory ID:	11-119-05					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	1800	10	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	50	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-14L					
Laboratory ID:	11-119-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-14L					
Laboratory ID:	11-119-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	71-131				
<i>Toluene-d8</i>	98	80-120				
<i>4-Bromofluorobenzene</i>	92	80-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-9D					
Laboratory ID:	11-119-07					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	50	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	50	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	680	10	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	560	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	380	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-9D					
Laboratory ID:	11-119-07					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	890	10	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	50	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-119-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-119-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloromethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Iodomethane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-16-15	11-16-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chloroform	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Trichloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromomethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chloroethyl Vinyl Ether	ND	7.5	EPA 8260C	11-16-15	11-16-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-16-15	11-16-15	

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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:	MB1116W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Bromoform	ND	1.0	EPA 8260C	11-16-15	11-16-15	
Bromobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-16-15	11-16-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-16-15	11-16-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-16-15	11-16-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

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 Project: 2007-098-2036

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1116W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.66	9.55	10.0	10.0	97	96	62-132	1	20	
Benzene	9.78	9.85	10.0	10.0	98	99	75-121	1	15	
Trichloroethene	9.05	8.95	10.0	10.0	91	90	65-115	1	15	
Toluene	9.71	9.84	10.0	10.0	97	98	78-116	1	15	
Chlorobenzene	9.21	9.36	10.0	10.0	92	94	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	97	71-131			
<i>Toluene-d8</i>					96	96	80-120			
<i>4-Bromofluorobenzene</i>					90	94	80-120			

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-4S					
Laboratory ID:	11-119-01					
Total Organic Carbon	1.4	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	BSC-MW-5S					
Laboratory ID:	11-119-02					
Total Organic Carbon	ND	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	HZ-MW-15S					
Laboratory ID:	11-119-03					
Total Organic Carbon	1.1	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	Dup					
Laboratory ID:	11-119-04					
Total Organic Carbon	13	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	HZ-MW-15D					
Laboratory ID:	11-119-05					
Total Organic Carbon	ND	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	BSC-MW-14L					
Laboratory ID:	11-119-06					
Total Organic Carbon	13	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	BSC-MW-9D					
Laboratory ID:	11-119-07					
Total Organic Carbon	ND	1.0	SM 5310B	11-16-15	11-16-15	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-16-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-01							
	ORIG	DUP						
Total Organic Carbon	1.39	1.37	NA	NA	NA	1	15	

MATRIX SPIKE

Laboratory ID:	11-119-01							
	MS	MS		MS				
Total Organic Carbon	11.5	10.0	1.39	101	85-119	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1116W1							
	SB	SB		SB				
Total Organic Carbon	10.9	10.0	NA	109	86-115	NA	NA	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-4S					
Laboratory ID:	11-119-01					
Nitrate	0.051	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	BSC-MW-5S					
Laboratory ID:	11-119-02					
Nitrate	0.69	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	HZ-MW-15S					
Laboratory ID:	11-119-03					
Nitrate	0.15	0.050	EPA 353.2	11-13-15	11-16-15	

Client ID:	Dup					
Laboratory ID:	11-119-04					
Nitrate	0.099	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	HZ-MW-15D					
Laboratory ID:	11-119-05					
Nitrate	1.4	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	BSC-MW-14L					
Laboratory ID:	11-119-06					
Nitrate	0.081	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	BSC-MW-9D					
Laboratory ID:	11-119-07					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	
METHOD BLANK						
Laboratory ID:	MB1113F1					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-02							
	ORIG	DUP						
Nitrate	0.668	0.669	NA	NA	NA	0	12	
DUPLICATE								
Laboratory ID:	11-119-03							
	ORIG	DUP						
Nitrate	0.146	0.137	NA	NA	NA	6	12	
MATRIX SPIKE								
Laboratory ID:	11-119-02							
	MS	MS		MS				
Nitrate	2.72	2.00	0.668	103	94-125	NA	NA	
MATRIX SPIKE								
Laboratory ID:	11-119-03							
	MS	MS		MS				
Nitrate	2.27	2.00	0.146	106	94-125	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Nitrate	2.10	2.00	NA	105	96-119	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1113F1							
	SB	SB		SB				
Nitrate	2.09	2.00	NA	105	96-119	NA	NA	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
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SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-4S					
Laboratory ID:	11-119-01					
Sulfate	15	10	ASTM D516-07	11-18-15	11-18-15	

Client ID:	BSC-MW-5S					
Laboratory ID:	11-119-02					
Sulfate	20	5.0	ASTM D516-07	11-18-15	11-18-15	

Client ID:	HZ-MW-15S					
Laboratory ID:	11-119-03					
Sulfate	26	10	ASTM D516-07	11-18-15	11-18-15	

Client ID:	Dup					
Laboratory ID:	11-119-04					
Sulfate	ND	10	ASTM D516-07	11-18-15	11-18-15	

Client ID:	HZ-MW-15D					
Laboratory ID:	11-119-05					
Sulfate	28	10	ASTM D516-07	11-18-15	11-18-15	

Client ID:	BSC-MW-14L					
Laboratory ID:	11-119-06					
Sulfate	ND	10	ASTM D516-07	11-18-15	11-18-15	

Client ID:	BSC-MW-9D					
Laboratory ID:	11-119-07					
Sulfate	ND	5.0	ASTM D516-07	11-18-15	11-18-15	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1118W1					
Sulfate	ND	5.0	ASTM D516-07	11-18-15	11-18-15	

Laboratory ID:	MB1113F1					
Sulfate	ND	5.0	ASTM D516-07	11-13-15	11-18-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-01							
	ORIG	DUP						
Sulfate	15.4	15.7	NA	NA	NA	2	9	

Laboratory ID:	11-119-03							
	ORIG	DUP						
Sulfate	25.7	26.4	NA	NA	NA	3	9	

MATRIX SPIKE								
Laboratory ID:	11-119-01							
	MS	MS		MS				
Sulfate	35.4	20.0	15.4	100	79-126	NA	NA	

Laboratory ID:	11-119-03							
	MS	MS		MS				
Sulfate	43.9	20.0	25.7	91	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1118W1							
	SB	SB		SB				
Sulfate	9.74	10.0	NA	97	86-116	NA	NA	

Laboratory ID:	SB1113F1							
	SB	SB		SB				
Sulfate	10.5	10.0	NA	105	86-116	NA	NA	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-4S					
Laboratory ID:	11-119-01					
Chloride	25	2.0	SM 4500-Cl E	11-17-15	11-17-15	
Client ID:	BSC-MW-5S					
Laboratory ID:	11-119-02					
Chloride	13	2.0	SM 4500-Cl E	11-17-15	11-17-15	
Client ID:	HZ-MW-15S					
Laboratory ID:	11-119-03					
Chloride	27	2.0	SM 4500-Cl E	11-17-15	11-17-15	
Client ID:	Dup					
Laboratory ID:	11-119-04					
Chloride	28	2.0	SM 4500-Cl E	11-17-15	11-17-15	
Client ID:	HZ-MW-15D					
Laboratory ID:	11-119-05					
Chloride	16	2.0	SM 4500-Cl E	11-17-15	11-17-15	
Client ID:	BSC-MW-14L					
Laboratory ID:	11-119-06					
Chloride	27	2.0	SM 4500-Cl E	11-17-15	11-17-15	
Client ID:	BSC-MW-9D					
Laboratory ID:	11-119-07					
Chloride	4.2	2.0	SM 4500-Cl E	11-17-15	11-17-15	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1117W1					
Chloride	ND	2.0	SM 4500-Cl E	11-17-15	11-17-15	
Laboratory ID:	MB1113F1					
Chloride	ND	2.0	SM 4500-Cl E	11-13-15	11-17-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-02							
	ORIG	DUP						
Chloride	12.5	12.9	NA	NA	NA	3	10	
Laboratory ID:	11-119-03							
	ORIG	DUP						
Chloride	27.0	27.0	NA	NA	NA	0	10	
MATRIX SPIKE								
Laboratory ID:	11-119-02							
	MS	MS		MS				
Chloride	67.6	50.0	12.5	110	96-126	NA	NA	
Laboratory ID:	11-119-03							
	MS	MS		MS				
Chloride	79.6	50.0	27.0	105	96-126	NA	NA	
SPIKE BLANK								
Laboratory ID:	SB1117W1							
	SB	SB		SB				
Chloride	52.7	50.0	NA	105	96-124	NA	NA	
Laboratory ID:	SB1113F1							
	SB	SB		SB				
Chloride	52.3	50.0	NA	105	96-124	NA	NA	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-4S					
Laboratory ID:	11-119-01					
Methane	3300	250	RSK 175	11-16-15	11-16-15	
Ethane	ND	250	RSK 175	11-16-15	11-16-15	
Ethene	ND	16	RSK 175	11-16-15	11-16-15	U1

Client ID:	BSC-MW-5S					
Laboratory ID:	11-119-02					
Methane	3200	250	RSK 175	11-16-15	11-16-15	
Ethane	ND	250	RSK 175	11-16-15	11-16-15	
Ethene	ND	21	RSK 175	11-16-15	11-16-15	U1

Client ID:	HZ-MW-15S					
Laboratory ID:	11-119-03					
Methane	3.1	0.50	RSK 175	11-16-15	11-16-15	
Ethane	ND	0.50	RSK 175	11-16-15	11-16-15	
Ethene	ND	0.50	RSK 175	11-16-15	11-16-15	

Client ID:	Dup					
Laboratory ID:	11-119-04					
Methane	11000	500	RSK 175	11-16-15	11-16-15	
Ethane	ND	500	RSK 175	11-16-15	11-16-15	
Ethene	ND	40	RSK 175	11-16-15	11-16-15	U1

Client ID:	HZ-MW-15D					
Laboratory ID:	11-119-05					
Methane	2800	250	RSK 175	11-16-15	11-16-15	
Ethane	ND	250	RSK 175	11-16-15	11-16-15	
Ethene	ND	12	RSK 175	11-16-15	11-16-15	U1

Client ID:	BSC-MW-14L					
Laboratory ID:	11-119-06					
Methane	11000	500	RSK 175	11-16-15	11-16-15	
Ethane	ND	500	RSK 175	11-16-15	11-16-15	
Ethene	ND	55	RSK 175	11-16-15	11-16-15	U1

Date of Report: November 18, 2015
Samples Submitted: November 13, 2015
Laboratory Reference: 1511-119
Project: 2007-098-2036

DISSOLVED GASES
RSK 175

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BSC-MW-9D					
Laboratory ID:	11-119-07					
Methane	190	15	RSK 175	11-16-15	11-16-15	
Ethane	ND	15	RSK 175	11-16-15	11-16-15	
Ethene	6.1	0.50	RSK 175	11-16-15	11-16-15	

Date of Report: November 18, 2015
 Samples Submitted: November 13, 2015
 Laboratory Reference: 1511-119
 Project: 2007-098-2036

**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Methane	ND	0.50	RSK 175	11-16-15	11-16-15	
Ethane	ND	0.50	RSK 175	11-16-15	11-16-15	
Ethene	ND	0.50	RSK 175	11-16-15	11-16-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1116W1										
	SB	SBD	SB	SBD		SB	SBD				
Methane	4.12	4.47	4.42	4.42	N/A	93	101	75-125	8	25	
Ethane	7.77	8.22	8.32	8.32	N/A	93	99	75-125	6	25	
Ethene	7.56	9.23	7.77	7.77	N/A	97	119	75-125	20	25	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- 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

November 23, 2015

Jeff Thompson
HWA GeoSciences, Inc.
21312 30th Drive SE, Suite 110
Bothell, WA 98021

Re: Analytical Data for Project 2007-098-2036
Laboratory Reference No. 1511-140

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 16, 2015.

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

Date of Report: November 23, 2015
Samples Submitted: November 16, 2015
Laboratory Reference: 1511-140
Project: 2007-098-2036

Case Narrative

Samples were collected on November 16, 2015 and received by the laboratory on November 16, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: November 23, 2015
 Samples Submitted: November 16, 2015
 Laboratory Reference: 1511-140
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19					
Laboratory ID:	11-140-01					
Dichlorodifluoromethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Chloromethane	ND	250	EPA 8260C	11-17-15	11-17-15	
Vinyl Chloride	ND	50	EPA 8260C	11-17-15	11-17-15	
Bromomethane	ND	85	EPA 8260C	11-17-15	11-17-15	
Chloroethane	ND	250	EPA 8260C	11-17-15	11-17-15	
Trichlorofluoromethane	ND	50	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethene	ND	50	EPA 8260C	11-17-15	11-17-15	
Iodomethane	ND	830	EPA 8260C	11-17-15	11-17-15	
Methylene Chloride	ND	250	EPA 8260C	11-17-15	11-17-15	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethane	ND	50	EPA 8260C	11-17-15	11-17-15	
2,2-Dichloropropane	ND	50	EPA 8260C	11-17-15	11-17-15	
(cis) 1,2-Dichloroethene	76	50	EPA 8260C	11-17-15	11-17-15	
Bromochloromethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Chloroform	ND	50	EPA 8260C	11-17-15	11-17-15	
1,1,1-Trichloroethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Carbon Tetrachloride	ND	50	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloropropene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloroethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Trichloroethene	70	50	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloropropane	ND	50	EPA 8260C	11-17-15	11-17-15	
Dibromomethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Bromodichloromethane	ND	50	EPA 8260C	11-17-15	11-17-15	
2-Chloroethyl Vinyl Ether	ND	2200	EPA 8260C	11-17-15	11-17-15	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	11-17-15	11-17-15	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	11-17-15	11-17-15	

Date of Report: November 23, 2015
 Samples Submitted: November 16, 2015
 Laboratory Reference: 1511-140
 Project: 2007-098-2036

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19					
Laboratory ID:	11-140-01					
1,1,2-Trichloroethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Tetrachloroethene	8200	50	EPA 8260C	11-17-15	11-17-15	
1,3-Dichloropropane	ND	50	EPA 8260C	11-17-15	11-17-15	
Dibromochloromethane	ND	50	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromoethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Chlorobenzene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Bromoform	ND	250	EPA 8260C	11-17-15	11-17-15	
Bromobenzene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,1,2,2-Tetrachloroethane	ND	50	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichloropropane	ND	50	EPA 8260C	11-17-15	11-17-15	
2-Chlorotoluene	ND	50	EPA 8260C	11-17-15	11-17-15	
4-Chlorotoluene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,3-Dichlorobenzene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,4-Dichlorobenzene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,2-Dichlorobenzene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromo-3-chloropropane	ND	250	EPA 8260C	11-17-15	11-17-15	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	11-17-15	11-17-15	
Hexachlorobutadiene	ND	50	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	11-17-15	11-17-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20					
Laboratory ID:	11-140-02					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Chloromethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Vinyl Chloride	17	10	EPA 8260C	11-17-15	11-17-15	
Bromomethane	ND	17	EPA 8260C	11-17-15	11-17-15	
Chloroethane	ND	50	EPA 8260C	11-17-15	11-17-15	
Trichlorofluoromethane	ND	10	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethene	ND	10	EPA 8260C	11-17-15	11-17-15	
Iodomethane	ND	170	EPA 8260C	11-17-15	11-17-15	
Methylene Chloride	ND	50	EPA 8260C	11-17-15	11-17-15	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethane	ND	10	EPA 8260C	11-17-15	11-17-15	
2,2-Dichloropropane	ND	10	EPA 8260C	11-17-15	11-17-15	
(cis) 1,2-Dichloroethene	37	10	EPA 8260C	11-17-15	11-17-15	
Bromochloromethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Chloroform	ND	10	EPA 8260C	11-17-15	11-17-15	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Carbon Tetrachloride	ND	10	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloropropene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloroethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Trichloroethene	60	10	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloropropane	ND	10	EPA 8260C	11-17-15	11-17-15	
Dibromomethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Bromodichloromethane	ND	10	EPA 8260C	11-17-15	11-17-15	
2-Chloroethyl Vinyl Ether	ND	430	EPA 8260C	11-17-15	11-17-15	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-17-15	11-17-15	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-17-15	11-17-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20					
Laboratory ID:	11-140-02					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Tetrachloroethene	900	10	EPA 8260C	11-17-15	11-17-15	
1,3-Dichloropropane	ND	10	EPA 8260C	11-17-15	11-17-15	
Dibromochloromethane	ND	10	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromoethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Chlorobenzene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-17-15	11-17-15	
Bromoform	ND	50	EPA 8260C	11-17-15	11-17-15	
Bromobenzene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-17-15	11-17-15	
2-Chlorotoluene	ND	10	EPA 8260C	11-17-15	11-17-15	
4-Chlorotoluene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	11-17-15	11-17-15	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-17-15	11-17-15	
Hexachlorobutadiene	ND	10	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-17-15	11-17-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21					
Laboratory ID:	11-140-03					
Dichlorodifluoromethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Chloromethane	ND	500	EPA 8260C	11-17-15	11-17-15	
Vinyl Chloride	ND	100	EPA 8260C	11-17-15	11-17-15	
Bromomethane	ND	170	EPA 8260C	11-17-15	11-17-15	
Chloroethane	ND	500	EPA 8260C	11-17-15	11-17-15	
Trichlorofluoromethane	ND	100	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethene	ND	100	EPA 8260C	11-17-15	11-17-15	
Iodomethane	ND	1700	EPA 8260C	11-17-15	11-17-15	
Methylene Chloride	ND	500	EPA 8260C	11-17-15	11-17-15	
(trans) 1,2-Dichloroethene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethane	ND	100	EPA 8260C	11-17-15	11-17-15	
2,2-Dichloropropane	ND	100	EPA 8260C	11-17-15	11-17-15	
(cis) 1,2-Dichloroethene	350	100	EPA 8260C	11-17-15	11-17-15	
Bromochloromethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Chloroform	ND	100	EPA 8260C	11-17-15	11-17-15	
1,1,1-Trichloroethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Carbon Tetrachloride	ND	100	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloropropene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloroethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Trichloroethene	440	100	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloropropane	ND	100	EPA 8260C	11-17-15	11-17-15	
Dibromomethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Bromodichloromethane	ND	100	EPA 8260C	11-17-15	11-17-15	
2-Chloroethyl Vinyl Ether	ND	4300	EPA 8260C	11-17-15	11-17-15	
(cis) 1,3-Dichloropropene	ND	100	EPA 8260C	11-17-15	11-17-15	
(trans) 1,3-Dichloropropene	ND	100	EPA 8260C	11-17-15	11-17-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21					
Laboratory ID:	11-140-03					
1,1,2-Trichloroethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Tetrachloroethene	21000	100	EPA 8260C	11-17-15	11-17-15	
1,3-Dichloropropane	ND	100	EPA 8260C	11-17-15	11-17-15	
Dibromochloromethane	ND	100	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromoethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Chlorobenzene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,1,1,2-Tetrachloroethane	ND	100	EPA 8260C	11-17-15	11-17-15	
Bromoform	ND	500	EPA 8260C	11-17-15	11-17-15	
Bromobenzene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,1,2,2-Tetrachloroethane	ND	100	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichloropropane	ND	100	EPA 8260C	11-17-15	11-17-15	
2-Chlorotoluene	ND	100	EPA 8260C	11-17-15	11-17-15	
4-Chlorotoluene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,3-Dichlorobenzene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,4-Dichlorobenzene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,2-Dichlorobenzene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromo-3-chloropropane	ND	500	EPA 8260C	11-17-15	11-17-15	
1,2,4-Trichlorobenzene	ND	100	EPA 8260C	11-17-15	11-17-15	
Hexachlorobutadiene	ND	100	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichlorobenzene	ND	100	EPA 8260C	11-17-15	11-17-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22					
Laboratory ID:	11-140-04					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Chloromethane	ND	2.0	EPA 8260C	11-18-15	11-18-15	
Vinyl Chloride	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Bromomethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Chloroethane	ND	2.0	EPA 8260C	11-18-15	11-18-15	
Trichlorofluoromethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,1-Dichloroethene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Iodomethane	ND	3.2	EPA 8260C	11-18-15	11-18-15	
Methylene Chloride	ND	2.0	EPA 8260C	11-18-15	11-18-15	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,1-Dichloroethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
2,2-Dichloropropane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
(cis) 1,2-Dichloroethene	2.0	0.40	EPA 8260C	11-18-15	11-18-15	
Bromochloromethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Chloroform	3.8	0.40	EPA 8260C	11-18-15	11-18-15	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Carbon Tetrachloride	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,1-Dichloropropene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,2-Dichloroethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Trichloroethene	2.8	0.40	EPA 8260C	11-18-15	11-18-15	
1,2-Dichloropropane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Dibromomethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Bromodichloromethane	0.70	0.40	EPA 8260C	11-18-15	11-18-15	
2-Chloroethyl Vinyl Ether	ND	28	EPA 8260C	11-18-15	11-18-15	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-18-15	11-18-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22					
Laboratory ID:	11-140-04					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Tetrachloroethene	69	0.40	EPA 8260C	11-18-15	11-18-15	
1,3-Dichloropropane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Dibromochloromethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,2-Dibromoethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Chlorobenzene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Bromoform	ND	2.0	EPA 8260C	11-18-15	11-18-15	
Bromobenzene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	11-18-15	11-18-15	
2-Chlorotoluene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
4-Chlorotoluene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	11-18-15	11-18-15	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
Hexachlorobutadiene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	11-18-15	11-18-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-140-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Chloromethane	ND	1.0	EPA 8260C	11-17-15	11-17-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromomethane	ND	0.34	EPA 8260C	11-17-15	11-17-15	
Chloroethane	ND	1.0	EPA 8260C	11-17-15	11-17-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Iodomethane	ND	3.3	EPA 8260C	11-17-15	11-17-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-17-15	11-17-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Chloroform	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Trichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Dibromomethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
2-Chloroethyl Vinyl Ether	ND	8.6	EPA 8260C	11-17-15	11-17-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-17-15	11-17-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	11-140-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromoform	ND	1.0	EPA 8260C	11-17-15	11-17-15	
Bromobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-17-15	11-17-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-120</i>				

Date of Report: November 23, 2015
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 Laboratory Reference: 1511-140
 Project: 2007-098-2036

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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1117W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Chloromethane	ND	1.0	EPA 8260C	11-17-15	11-17-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromomethane	ND	0.34	EPA 8260C	11-17-15	11-17-15	
Chloroethane	ND	1.0	EPA 8260C	11-17-15	11-17-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Iodomethane	ND	3.3	EPA 8260C	11-17-15	11-17-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-17-15	11-17-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Chloroform	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Trichloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Dibromomethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
2-Chloroethyl Vinyl Ether	ND	8.6	EPA 8260C	11-17-15	11-17-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-17-15	11-17-15	

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 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1117W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Bromoform	ND	1.0	EPA 8260C	11-17-15	11-17-15	
Bromobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-17-15	11-17-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-17-15	11-17-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-17-15	11-17-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-120</i>				

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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1118W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Chloromethane	ND	1.0	EPA 8260C	11-18-15	11-18-15	
Vinyl Chloride	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Bromomethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Chloroethane	ND	1.0	EPA 8260C	11-18-15	11-18-15	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Iodomethane	ND	1.6	EPA 8260C	11-18-15	11-18-15	
Methylene Chloride	ND	1.0	EPA 8260C	11-18-15	11-18-15	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Bromochloromethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Chloroform	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Trichloroethene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Dibromomethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Bromodichloromethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
2-Chloroethyl Vinyl Ether	ND	14	EPA 8260C	11-18-15	11-18-15	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-18-15	11-18-15	

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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:	MB1118W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Tetrachloroethene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Dibromochloromethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Chlorobenzene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Bromoform	ND	1.0	EPA 8260C	11-18-15	11-18-15	
Bromobenzene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-18-15	11-18-15	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-18-15	11-18-15	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-18-15	11-18-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-120</i>				

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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1117W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.42	9.25	10.0	10.0	94	93	62-132	2	20	
Benzene	9.68	9.84	10.0	10.0	97	98	75-121	2	15	
Trichloroethene	9.07	8.78	10.0	10.0	91	88	65-115	3	15	
Toluene	9.81	9.71	10.0	10.0	98	97	78-116	1	15	
Chlorobenzene	9.22	8.99	10.0	10.0	92	90	77-118	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	104	71-131			
<i>Toluene-d8</i>					99	99	80-120			
<i>4-Bromofluorobenzene</i>					90	94	80-120			

Date of Report: November 23, 2015
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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1118W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.32	9.41	10.0	10.0	93	94	62-132	1	20	
Benzene	9.63	10.0	10.0	10.0	96	100	75-121	4	15	
Trichloroethene	8.93	8.89	10.0	10.0	89	89	65-115	0	15	
Toluene	9.67	9.80	10.0	10.0	97	98	78-116	1	15	
Chlorobenzene	9.35	9.37	10.0	10.0	94	94	77-118	0	15	
<i>Surrogate:</i>										
Dibromofluoromethane					97	103	71-131			
Toluene-d8					97	99	80-120			
4-Bromofluorobenzene					92	96	80-120			

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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19					
Laboratory ID:	11-140-01					
Total Organic Carbon	7.9	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	MW-20					
Laboratory ID:	11-140-02					
Total Organic Carbon	2.7	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	MW-21					
Laboratory ID:	11-140-03					
Total Organic Carbon	3.3	1.0	SM 5310B	11-16-15	11-16-15	
Client ID:	MW-22					
Laboratory ID:	11-140-04					
Total Organic Carbon	1.5	1.0	SM 5310B	11-16-15	11-16-15	

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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-16-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-01							
	ORIG	DUP						
Total Organic Carbon	1.39	1.37	NA	NA	NA	NA	1	15

MATRIX SPIKE								
Laboratory ID:	11-119-01							
	MS	MS		MS				
Total Organic Carbon	11.5	10.0	1.39	101	85-119	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1116W1							
	SB	SB		SB				
Total Organic Carbon	10.9	10.0	NA	109	86-115	NA	NA	

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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19					
Laboratory ID:	11-140-01					
Chloride	98	4.0	SM 4500-Cl E	11-17-15	11-17-15	

Client ID:	MW-20					
Laboratory ID:	11-140-02					
Chloride	86	2.0	SM 4500-Cl E	11-17-15	11-17-15	

Client ID:	MW-21					
Laboratory ID:	11-140-03					
Chloride	320	10	SM 4500-Cl E	11-17-15	11-17-15	

Client ID:	MW-22					
Laboratory ID:	11-140-04					
Chloride	22	2.0	SM 4500-Cl E	11-17-15	11-17-15	

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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1117W1					
Chloride	ND	2.0	SM 4500-Cl E	11-17-15	11-17-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-02							
	ORIG	DUP						
Chloride	12.5	12.9	NA	NA	NA	3	10	

MATRIX SPIKE								
Laboratory ID:	11-119-02							
	MS	MS		MS				
Chloride	67.6	50.0	12.5	110	96-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1117W1							
	SB	SB		SB				
Chloride	52.7	50.0	NA	105	96-124	NA	NA	

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SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19					
Laboratory ID:	11-140-01					
Sulfate	31	10	ASTM D516-07	11-18-15	11-18-15	

Client ID:	MW-20					
Laboratory ID:	11-140-02					
Sulfate	22	10	ASTM D516-07	11-18-15	11-18-15	

Client ID:	MW-21					
Laboratory ID:	11-140-03					
Sulfate	96	25	ASTM D516-07	11-18-15	11-18-15	

Client ID:	MW-22					
Laboratory ID:	11-140-04					
Sulfate	ND	5.0	ASTM D516-07	11-18-15	11-18-15	

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**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1118W1					
Sulfate	ND	5.0	ASTM D516-07	11-18-15	11-18-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-119-01							
	ORIG	DUP						
Sulfate	15.4	15.7	NA	NA	NA	2	9	

MATRIX SPIKE								
Laboratory ID:	11-119-01							
	MS	MS		MS				
Sulfate	35.4	20.0	15.4	100	79-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1118W1							
	SB	SB		SB				
Sulfate	9.74	10.0	NA	97	86-116	NA	NA	

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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19					
Laboratory ID:	11-140-01					
Nitrate	0.060	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-20					
Laboratory ID:	11-140-02					
Nitrate	0.071	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-21					
Laboratory ID:	11-140-03					
Nitrate	2.0	0.050	EPA 353.2	11-16-15	11-16-15	

Client ID:	MW-22					
Laboratory ID:	11-140-04					
Nitrate	0.060	0.050	EPA 353.2	11-16-15	11-16-15	

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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W2					
Nitrate	ND	0.050	EPA 353.2	11-16-15	11-16-15	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-140-02							
	ORIG	DUP						
Nitrate	0.0706	0.0696	NA	NA	NA	NA	1	12

MATRIX SPIKE								
Laboratory ID:	11-140-02							
	MS	MS		MS				
Nitrate	2.25	2.00	0.0706	109	94-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1116W2							
	SB	SB		SB				
Nitrate	2.11	2.00	NA	106	96-119	NA	NA	

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**DISSOLVED GASES
 RSK 175**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19					
Laboratory ID:	11-140-01					
Methane	74	15	RSK 175	11-16-15	11-16-15	
Ethane	ND	15	RSK 175	11-16-15	11-16-15	
Ethene	2.2	0.50	RSK 175	11-16-15	11-16-15	

Client ID:	MW-20					
Laboratory ID:	11-140-02					
Methane	1800	125	RSK 175	11-17-15	11-17-15	
Ethane	ND	125	RSK 175	11-17-15	11-17-15	
Ethene	9.4	0.50	RSK 175	11-16-15	11-16-15	

Client ID:	MW-21					
Laboratory ID:	11-140-03					
Methane	310	25	RSK 175	11-16-15	11-16-15	
Ethane	ND	25	RSK 175	11-16-15	11-16-15	
Ethene	2.6	0.50	RSK 175	11-16-15	11-16-15	

Client ID:	MW-22					
Laboratory ID:	11-140-04					
Methane	1400	250	RSK 175	11-16-15	11-16-15	
Ethane	ND	250	RSK 175	11-16-15	11-16-15	
Ethene	ND	9.0	RSK 175	11-16-15	11-16-15	U1

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**DISSOLVED GASES
 RSK 175
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Methane	ND	0.50	RSK 175	11-16-15	11-16-15	
Ethane	ND	0.50	RSK 175	11-16-15	11-16-15	
Ethene	ND	0.50	RSK 175	11-16-15	11-16-15	

Laboratory ID:	MB1117W1					
Methane	ND	0.50	RSK 175	11-17-15	11-17-15	
Ethane	ND	0.50	RSK 175	11-17-15	11-17-15	
Ethene	ND	0.50	RSK 175	11-17-15	11-17-15	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD		SB	SBD				
SPIKE BLANKS											
Laboratory ID:	SB1116W1										
Methane	4.12	4.47	4.42	4.42	N/A	93	101	75-125	8	25	
Ethane	7.77	8.22	8.32	8.32	N/A	93	99	75-125	6	25	
Ethene	7.56	9.23	7.77	7.77	N/A	97	119	75-125	20	25	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- 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



DRAGON ANALYTICAL LABORATORY

530 A1 Ronlee Ln, Olympia, WA 98502
(360) 866-0543



Hazardous Waste, Microbiology, NPDES, Potable and Non-potable Water
Mobile Environmental Laboratory

Kane Environmental
3815 Woodland Park Ave N, STE 102
Seattle, WA 98103

Sampled By: JV

DAL Project No.: 160713-01

Project Name: Bothell Way NE

Project No.: 82301, 82302

P.O. No.: n/a

Date Collected: 7/13/2016; 09:40-15:50

Date Received: 7/13/2016, 7/14/2016; 15:20, 16:15

Temperature Received (°C): n/a

Report Date: 7/28/2016

Preparation Method: US EPA 5030B

Analytical Method: US EPA 8260B

Date Prepared: 7/15/2016

Date Analyzed: 7/15/2016

Analyst: TM

Data Reviewed By:

Units: mg/kg

Matrix: Soil

Reporting Limits: Standard

Purge Volume: 10 mL

Instrument ID: 8610

Lab Data File:

VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS

Sample Identification	CAS No.	MRL	Method			
			KSB-1 36" Blank	KSB-8 20" 60"	KSB-8 20" 26"	KSB-8 20"-26" Dup.
1,2-Dichloroethene (1,2 DCE)	540-59-0	0.0010	nd	nd	nd	nd
Tetrachloroethene (PCE)	127-18-4	0.0010	nd	0.043	10.8	10.4
Trichloroethene (TCE)	79-01-6	0.0010	nd	0.024	0.96	0.89
Vinyl chloride	75-01-4	0.0010	nd	nd	nd	nd
Dilution Factor				50.0	50.0	50.0
Data Flags						



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Kane Environmental
DAL Project No.: 160713-01

Project Name: Bothell Way NE
Project No.: 82301, 82302

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL RESULTS

SURROGATE RECOVERY & PERCENT SOLIDS

Surrogate	Limits (%)	Method KSB-1 36"- KSB-8 20"- KSB-8 20"-26"			
		Blank	60"	26"	Dup.
Dibromofluoromethane	80-120	98.2	96.5	118	100
Toluene-d8	81-117	97.3	95.6	104	100
4-Bromofluorobenzene	74-121	94.2	97.2	102	102

LABORATORY CONTROL SAMPLE AND MATRIX SPIKE

QC Batch ID: 160715-VOC

MS/MSD Sample ID: 160715-VOC MS/MSD

LCS Sample ID: 160715-VOC LCS

Analyte	MS	MS	Sample	MS	MS	LCS	LCS	LCS	LCS
	Limits (%)	Level (mg/kg)	Conc. (mg/kg)	Recovery (mg/kg)	Percent Recovery	Limits (%)	Level (mg/kg)	Recovery (mg/kg)	Percent Recovery
Benzene	76-127	0.010	nd	0.0106	106%	80-120	0.01	0.011	110%
Chlorobenzene	75-130	0.010	nd	0.0108	108%	80-120	0.01	0.011	108%
1,1-Dichloroethene	61-145	0.010	nd	0.0093	92.5%	75-135	0.01	0.011	107%
Toluene	76-125	0.010	0.0003	0.0110	106%	80-120	0.01	0.010	96.2%
Trichloroethene	71-120	0.010	0.0005	0.0110	105%	80-120	0.01	0.011	115%

WA-DOE-Laboratory Certification No.: C890

"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.

"n/a" indicates not applicable

Comments and Explanations: None.



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DAL Project No.: 160713-01

Project Name: Bothell Way NE

Project No.: 82301, 82302

P.O. No.: n/a

Date Collected: 7/13/2016; 09:40-15:50

Date Received: 7/13/2016, 7/14/2016; 15:20, 16:15

Temperature Received (°C): n/a

Report Date: 7/28/2016

Preparation Method: US EPA 5030B

Analytical Method: US EPA 8260B

Date Prepared: 7/15/2016

Date Analyzed: 7/23/2016

Analyst: TM

Data Reviewed By:

Units: mg/kg

Matrix: Soil

Reporting Limits: Standard

Purge Volume: 10 mL

Instrument ID: 8610

Lab Data File: 16072301

VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS

Sample Identification	CAS No.	MRL	Method	KSB-10 0"-	KSB-11	KSB-11 12"-24"	KSB-13 3"-
			Blank	12"	12"-24"	Dup.	12"
1,2-Dichloroethene (1,2 DCE)	540-59-0	0.0010	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	127-18-4	0.0010	nd	0.62	0.038	0.039	0.033
Trichloroethene (TCE)	79-01-6	0.0010	nd	nd	nd	nd	nd
Vinyl chloride	75-01-4	0.0010	nd	nd	nd	nd	nd
Dilution Factor				50.0	50.0	50.0	50.0
Data Flags							



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DAL Project No.: 160713-01

Project Name: Bothell Way NE
Project No.: 82301, 82302

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL RESULTS

SURROGATE RECOVERY & PERCENT SOLIDS

Surrogate	Limits (%)	Method	KSB-10 0"-	KSB-11	KSB-11 12"-24"	KSB-13 3"-
		Blank	12"	12"-24"	Dup.	12"
Dibromofluoromethane	80-120	97.1	102	95.2	95.6	95.3
Toluene-d8	81-117	100	101	102	105	103
4-Bromofluorobenzene	74-121	91.7	104	95.2	104	109

LABORATORY CONTROL SAMPLE AND MATRIX SPIKE

QC Batch ID: 160723-VOC

MS/MSD Sample ID: 160723-VOC MS/MSD

LCS Sample ID: 160723-VOC LCS

Analyte	MS	MS	Sample	MS	MS	LCS	LCS	LCS	LCS
	Limits (%)	Level (mg/kg)	Conc. (mg/kg)	Recovery (mg/kg)	Percent Recovery	Limits (%)	Level (mg/kg)	Recovery (mg/kg)	Percent Recovery
Benzene	76-127	0.010	nd	0.0095	94.5%	80-120	0.01	0.0087	86.5%
Chlorobenzene	75-130	0.010	nd	0.0096	96.1%	80-120	0.01	0.0092	92.1%
1,1-Dichloroethene	61-145	0.010	nd	0.0094	93.5%	75-135	0.01	0.0088	88.0%
Toluene	76-125	0.010	0.0005	0.010	98.9%	80-120	0.01	0.0095	94.9%
Trichloroethene	71-120	0.010	nd	0.010	102%	80-120	0.01	0.011	106%

WA-DOE-Laboratory Certification No.: C890

"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.

"n/a" indicates not applicable

Comments and Explanations: None.



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Sampled By: JV

DAL Project No.: 160713-01

Project Name: Bothell Way NE

Project No.: 82301, 82302

P.O. No.: n/a

Date Collected: 7/13/2016; 09:40-15:50

Date Received: 7/13/2016, 7/14/2016; 15:20, 16:15

Temperature Received (°C): n/a

Report Date: 7/28/2016

Preparation Method: US EPA 5030B

Analytical Method: US EPA 8260B

Date Prepared: 7/15/2016

Date Analyzed: 7/27/2016

Analyst: TM

Data Reviewed By:

Units: mg/kg

Matrix: Soil

Reporting Limits: Standard

Purge Volume: 10 mL

Instrument ID: 8610

Lab Data File: 16072701

VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS

Sample Identification	CAS No.	MRL	Method Blank	KSB-2 8"-36"	KSB-16 12"-24"	Sewer: Beneath	Sewer: Above	Water-1 30"	Water-1 30" Dup.
1,2-Dichloroethene (1,2 DCE)	540-59-0	0.0010	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	127-18-4	0.0010	nd	0.10	0.033	0.073	0.13	nd	nd
Trichloroethene (TCE)	79-01-6	0.0010	nd	nd	nd	nd	nd	nd	nd
Vinyl chloride	75-01-4	0.0010	nd	nd	nd	nd	nd	nd	nd
Dilution Factor				50.0	50.0	50.0	50.0	50.0	50.0
Data Flags									



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Kane Environmental
DAL Project No.: 160713-01

Project Name: Bothell Way NE
Project No.: 82301, 82302

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL RESULTS

SURROGATE RECOVERY & PERCENT SOLIDS

Surrogate	Limits (%)	Method Blank	KSB-2 8"-36"	KSB-16 12"-24"	Sewer: Beneath	Sewer: Above	Water-1 30"	Water-1 30" Dup.
Dibromofluoromethane	80-120	95.9	102	96.6	92.6	96.7	95.6	94.2
Toluene-d8	81-117	100	103	103	102	101	96.9	100
4-Bromofluorobenzene	74-121	106	106	106	102	104	106	107

LABORATORY CONTROL SAMPLE AND MATRIX SPIKE

QC Batch ID: 160727-VOC

MS/MSD Sample ID: 160727-VOC MS/MSD

LCS Sample ID: 160727-VOC LCS

Analyte	MS Limits (%)	MS Level (mg/kg)	Sample Conc. (mg/kg)	Recovery (mg/kg)	MS Percent Recovery	LCS Limits (%)	LCS Level (mg/kg)	LCS Recovery (mg/kg)	LCS Percent Recovery
	Benzene	76-127	0.010	nd	0.0092	91.6%	80-120	0.010	0.0094
Chlorobenzene	75-130	0.010	nd	0.010	100%	80-120	0.010	0.0098	98.2%
1,1-Dichloroethene	61-145	0.010	nd	0.0083	82.5%	75-135	0.010	0.0089	88.5%
Toluene	76-125	0.010	0.0007	0.011	102%	80-120	0.010	0.010	104%
Trichloroethene	71-120	0.010	nd	0.010	101%	80-120	0.010	0.010	102%

WA-DOE-Laboratory Certification No.: C890

"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.

"n/a" indicates not applicable

Comments and Explanations: None.



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Kane Environmental
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Seattle, WA 98103

Sampled By: JV

DAL Project No.: 160713-01

Project Name: Bothell Way NE

Project No.: 82301, 82302

P.O. No.: n/a

Date Collected: 7/13/2016; 09:40-15:50

Date Received: 7/13/2016, 7/14/2016; 15:20, 16:15

Temperature Received (°C): n/a

Report Date: 7/28/2016

Preparation Method: US EPA 5030
Analytical Method: US EPA 8021B
Date Prepared: 7/13/2016-7/14/2016
Date Analyzed: 7/13/2016-7/15/2016
Analyst: GD/JB
Data Reviewed By:

Units: mg/kg
Matrix: Soil
Reporting Limits: Standard
Injection Volume: 10 mL
Instrument ID: SRI-8610
Lab Data File: n/a

VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS

Sample Identification	CAS No.	MRL	Method Blank	KSB-1 2"-20"	KSB-1 36"-60"	KSB-2 8"-36"	KSB-4 9"-18"	KSB-5 7"-24"	KSB-5 24"-36"	KSB-6 34"-36"	KSB-6 4"-24"	KSB-7 16"-32"	KSB-7 40"-48"	KSB-8 6"-20"
Tetrachloroethene (PCE)	127-18-4	0.02	nd	nd	nd	nd	nd	nd	nd	8.8	nd	nd	nd	0.46
Trichloroethene (TCE)	79-01-6	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethene (1,2 DCE)	540-59-0	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Vinyl chloride	75-01-4	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dilution Factor			100	100	100	100	100	100	100	100	100	100	100	100
Data Flags														

Sample Identification	CAS No.	MRL	KSB-8 20"-26"	KSB-9 29"-36"	KSB-10 0"-12"	KSB-10 36"-46"	KSB-11 12"-24"	KSB-11 52"-60"	KSB-11 64"-72"	KSB-15 18"-26"	KSB-15 26"-36"	KSB-13 3"-12"	KSB-16 12"-24"	Sewer: Beneath
Tetrachloroethene (PCE)	127-18-4	0.02	7.3	nd	0.87	nd	nd	nd	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	79-01-6	0.02	1.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethene (1,2 DCE)	540-59-0	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Vinyl chloride	75-01-4	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Dilution Factor			100	100	100	100	100	100	100	100	100	100	100	100
Data Flags														

Comments and Explanations: None.



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Kane Environmental
3815 Woodland Park Ave N, STE 102
Seattle, WA 98103

Sampled By: JV

DAL Project No.: 160713-01

Project Name: Bothell Way NE

Project No.: 82301, 82302

P.O. No.: n/a

Date Collected: 7/13/2016; 09:40-15:50

Date Received: 7/13/2016, 7/14/2016; 15:20, 16:15

Temperature Received (°C): n/a

Report Date: 7/28/2016

Preparation Method: US EPA 5030
Analytical Method: US EPA 8021B
Date Prepared: 7/13/2016-7/14/2016
Date Analyzed: 7/13/2016-7/15/2016
Analyst: GD/JP
Data Reviewed By:

Units: mg/kg
Matrix: Soil
Reporting Limits: Standard
Injection Volume: 10 mL
Instrument ID: SRI-8610
Lab Data File: n/a

VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS

Sample Identification	CAS No.	MRL	Sewer: Above	Water-1 30"
Tetrachloroethene (PCE)	127-18-4	0.03	nd	nd
Trichloroethene (TCE)	79-01-6	0.02	nd	nd
1,2-Dichloroethene (1,2 DCE)	540-59-0	0.03	nd	nd
Vinyl chloride	75-01-4	0.02	nd	nd
Dilution Factor			1.0	1.0
Data Flags				

Comments and Explanations: None.



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Project No.: 82301, 82302

P.O. No.: n/a

Date Collected: 7/13/2016; 09:40-15:50

Date Received: 7/13/2016, 7/14/2016; 15:20, 16:15

Temperature Received (°C): n/a

Report Date: 7/28/2016

Preparation Method: US EPA 5030
Analytical Method: US EPA 8021B
Date Prepared: 7/13/2016-7/14/2016
Date Analyzed: 7/13/2016-7/15/2016
Analyst: GD/JB
Data Reviewed By:

Units: mg/kg
Matrix: Soil
Reporting Limits: Standard
Injection Volume: 10 mL
Instrument ID: SRI-8610
Lab Data File: n/a

VOLATILE ORGANIC COMPOUNDS QUALITY CONTROL RESULTS

SURROGATE RECOVERY

Surrogate	Limits (%)	Method Blank	KSB-1 2"- 20"	KSB-1 36"- 60"	KSB-2 8"- 36"	KSB-4 9"- 18"	KSB-5 7"- 24"	KSB-5 24"-36"	KSB-6 34"-36"	KSB-6 4"- 24"	KSB-7 16"-32"	KSB-7 40"- 48"	KSB-8 6"- 20"	KSB-8 20"- 26"
BFB	50-150	94.4	85.3	135	103	108	102	94.4	114	111	117	125	110	95.8

Surrogate	Limits (%)	KSB-9 29"- 36"	KSB-10 0"- 12"	KSB-10 36"-46"	KSB-11 12"-24"	KSB-11 52"-60"	KSB-11 64"-72"	KSB-15 18"-26"	KSB-15 26"-36"	KSB-13 3"-12"	KSB-16 12"-24"	Sewer: Beneath	Sewer: Above	Water-1 30"
BFB	50-150	147	114	119	97.1	82.0	99.4	112	115	113	123	102	98.5	118

LABORATORY CONTROL SAMPLE AND MATRIX SPIKE QC Batch ID: 160713-VOC

Analyte	MS/MSD Limits (%)	MS/MSD Level (mg/kg)	Sample Conc. (mg/kg)	MS Recovery (mg/kg)	MS Percent Recovery	MSD Recovery (mg/kg)	MSD Percent Recovery	MS/MSD RPD Limits	RPD	LCS Limits (%)	LCS Level (mg/kg)	LCS Recovery (mg/kg)	LCS Percent Recovery
Tetrachloroethene (PCE)	65-135	0.20	nd	0.17	86.2%	0.20	99.4%	≤ 50%	14.2	65-135	0.20	0.17	87.2%
Trichloroethene (TCE)	65-135	0.20	nd	0.21	106%	0.22	111%	≤ 50%	5.2	65-135	0.20	0.20	99.1%
1,2-Dichloroethene (1,2 DCE)	65-135	0.20	nd	0.21	107%	0.22	112%	≤ 50%	3.7	65-135	0.20	0.21	104%
Vinyl chloride	65-135	0.20	nd	0.20	102%	0.21	106%	≤ 50%	4.3	65-135	0.20	0.22	108%

WA-DOE-Laboratory Certification No.: C890

"nd" indicates the analyte was not detected at or above the listed Method Reporting Limit.

"n/a" indicates not applicable

Sample results based on dry weight.

Comments and Explanations: None.



OT=OK
JV

Samples Collected By: JV
 Contact Number: 206-715-6913

Client: Kane Environmental Phone: 206-691-0476 Project Name: Bothell Way NE Project P.O.: _____
 Address: 3815 Woodland Park Ave N Fax: _____ Project Location: Bothell Contact Person: _____
Seattle WA 98103 Email: _____ Project Number: 82301 DAL Project No.: 160713-01A
 Email: juvatter@kane-environmental.com

Matrix Code:
 WW = wastewater GW = groundwater S = soil or solid
 SL = sludge V = vapor O = other

Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Container Type	BTEX (EPA 8021b)	Gasoline (NWTPH-Gx)	Diesel (NWTPH-Dx)	Diesel & Oil (NWTPH-Dx)	Mineral Oil (NWTPH-Dx)	Fuel Scan (NWTPH-HCID)	Organochlorine Pesticides (EPA 8081)	PCB's (EPA 8082)	Volatiles (EPA 8260) <u>Rush</u>	PAH's (EPA 8100 or 8270/8270SIM)	Semi-Volatiles (EPA 8270)	Ignitability (EPA 1010)	Oil and Grease (EPA 1664 HEM)	pH (EPA 9040/9045)	Specific Conductance (EPA 9050)	Paint Filter Test (EPA 9095)	Heavy Metals* (EPA 6020,7000,7010)	Biogenic Gases (EPA 3C)	Natural Attenuation Indicators	Gross Alpha Radioactivity (EPA 900)	Gross Beta Radioactivity (EPA 900)	VOC's (EPA 8021b)	
<u>JV KSB-1: 2in-20in</u>																											
KSB-1: 5in-23in		<u>7/13/16</u>	<u>0930</u>	<u>4oz</u>																							
KSB-1: 3in-5in			<u>0950</u>																								
<u>JV KSB-2: 8in-36in</u>	<u>S</u>		<u>1005</u>																								
KSB-3: 9in-24in			<u>1140</u>																								
<u>KSB-4: 9in-18in</u>	<u>S</u>		<u>1205</u>																								
KSB-5: 7in-24in	<u>S</u>		<u>1303</u>																								
KSB-5: 24in-36in	<u>S</u>		<u>1305</u>																								
<u>KSB-6: 4in-24in</u>	<u>S</u>		<u>1350</u>																								
<u>KSB-6: 34in-36in</u>	<u>S</u>		<u>1352</u>																								
<u>KSB-7: 16in-32in</u>	<u>S</u>		<u>1415</u>																								
<u>KSB-7: 40in-48in</u>	<u>S</u>		<u>1420</u>																								
<u>KSB-8: 6in-20in</u>	<u>S</u>		<u>1500</u>																								
<u>KSB-8: 20in-26in</u>	<u>S</u>		<u>1505</u>																								

Relinquished by (Signature) _____ Date/Time _____ Received by (Signature) _____ Date/Time _____
 Relinquished by (Signature) _____ Date/Time 2016-07-13 @ 15:20 Received by (Signature) _____ Date/Time 7/13/16 15:20

Turn-Around-Time (Work Days)
 Same Day
 1 Business Day
 2 Business Day
 5 Business Day
 10 Business Days
 Other: ML

***Heavy Metals:** Please circle the desired analytes. Other metals available - please ask.
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Total
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Dissolved
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - TCLP
***Records are destroyed after 7 years**

Sample Disposal Instructions: DAL Disposal @ \$2.50 per Container Return Pickup

DRAGON

Analytical Laboratory



RCRA CHAIN OF CUSTODY RECORD

530 A-1 Ronlee Lane, NW, Olympia, WA 98502
Phone: (360) 866-0543 Fax: (360) 866-0556
Email: customerservice@dragonlaoratory.com

OT=OK
JV

Samples Collected By: JV
Contact Number: 206-715-6913

Client: Kape Environmental Phone: 206-691-0476 Project Name: Bothell Way NE Project P.O.: 82301
Address: 3815 Woodland Park Ave Fax: _____ Project Location: Bothell Contact Person: Justin Vetter
Seattle WA 98103 Suite 102 Email: _____ Project Number: 82301 DAL Project No.: 160713-01A2
Email: juvetter@kape-environmental.com

Matrix Code:
WW = wastewater GW = groundwater S = soil or solid
SL = sludge V = vapor O = other

Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Container Type	BTEX (EPA 8021b)	Gasoline (NWTPH-Gx)	Diesel (NWTPH-Dx)	Diesel & Oil (NWTPH-Dx)	Mineral Oil (NWTPH-DO)	Fuel Scan (NWTPH-HCID)	Organochlorine Pesticides (EPA 8081)	PCB's (EPA 8082)	Volatiles (EPA 8260)	PAH's (EPA 8100 or 8270/8270SIM)	Semi-Volatiles (EPA 8270)	Ignitability (EPA 1010)	Oil and Grease (EPA 1664 HEM)	pH (EPA 9040/9045)	Specific Conductance (EPA 9050)	Patent Filter Test (EPA 9095)	Heavy Metals* (EPA 6020; 7000; 7010)	Biogenic Gases (EPA 3C)	Natural Attenuation Indicators	Gross Alpha Radioactivity (EPA 900)	Gross Beta Radioactivity (EPA 900)	VOC's (EPA 8021b)	Holds	
KSB-3: 9in-24in	S		1140																							X		
KSB-3: 24in-48in	S		1145																							X		
KSB-5: 24in-36in	S		1305																							X		

Relinquished by (Signature): <u>[Signature]</u>	Date/Time: <u>2016-07-13 @ 1520</u>	Received by (Signature): <u>[Signature]</u>	Date/Time: <u>7/13/16 1520</u>
Relinquished by (Signature): _____	Date/Time: _____	Received by (Signature): _____	Date/Time: _____

Turn-Around-Time (Work Days)

Same Day
 1 Business Day
 2 Business Days
 5 Business Days
 10 Business Days

Other: ML

***Heavy Metals:** Please circle the desired analytes. Other metals available - please ask.

Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Total
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Dissolved
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - TCLP

***Records are destroyed after 7 years**

Sample Disposal Instructions: DAL Disposal @ \$2.50 per Container Return Pickup



RCRA CHAIN OF CUSTODY RECORD

530 A-1 Ronlee Lane, NW, Olympia, WA 98502
 Phone: (360) 866-0543 Fax: (360) 866-0556
 Email: customerservice@dragonlaboratory.com

OT=OK
 JV

Samples Collected By: JV
 Contact Number: 206-715-6913

Client: Kane Environmental Phone: 206-691-0476 Project Name: Bothell Way NE Project P.O.: _____
 Address: 3815 Woodland Park Ave N, Ste 102 Fax: _____ Project Location: Bothell Contact Person: Justin Vetter
Seattle WA Email: _____ Project Number: 82302 DAL Project No.: 160713-01B
justetter@kane-environmental.com

Matrix Code:
 WW = wastewater GW = groundwater S = soil or solid
 SL = sludge V = vapor O = other

Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Container Type	BTEX (EPA 8021b)	Gasoline (NWTPH-Gz)	Diesel (NWTPH-Dx)	Diesel & Oil (NWTPH-Dx)	Mineral Oil (NWTPH-Dx)	Fuel Scan (NWTPH-HCID)	Organochlorine Pesticides (EPA 8081)	PCB's (EPA 8082)	Volatiles (EPA 8260)	PAH's (EPA 8100 or 8270/8270SIM)	Semi-Volatiles (EPA 8270)	Ignitability (EPA 1010)	Oil and Grease (EPA 1664 HEM)	pH (EPA 9040/9045)	Specific Conductance (EPA 9050)	Paint Filter Test (EPA 9095)	Heavy Metals* (EPA 6020,7000,7010)	Biogenic Gases (EPA 3C)	Natural Attenuation Indicators	Gross Alpha Radioactivity (EPA 900)	Gross Beta Radioactivity (EPA 900)	VOC's (EPA 8021b)	
KSB-9: 29in-36in	S	16-7-14	1020	4oz																							X
KSB-10: 0in-12in			1045	4oz									X														X
KSB-10: 36in-46in			1050	4oz																							X
KSB-11: 12in-24in			1138	4oz									X														X
KSB-11: 52in-60in			1153	4oz																							X
KSB-11: 64in-72in			1158	4oz																							X
KSB-15: 18in-26in			1355	4oz																							X
KSB-15: 26in-36in			1358	4oz																							X
KSB-13: 3in-12in			1412	4oz									X														X
KSB-16: 12in-24in			1503	4oz									X														X

Relinquished by (Signature) _____ Date/Time _____ Received by (Signature) _____ Date/Time _____
 Relinquished by (Signature) _____ Date/Time _____ Received by (Signature) _____ Date/Time _____
 1615 7/14/16

Turn-Around-Time (Work Days)
 Same Day
 1 Business Day
 2 Business Day
 5 Business Day
 10 Business Days
 *Other: ML

***Heavy Metals:** Please circle the desired analytes. Other metals available - please ask.
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Total
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - Dissolved
 Ag Al As Ba Be Cd Cr Cr-VI Co Cu Fe Hg Li Mg Mn Mo Ni Pb Sb Se Tl V Zn - TCLP

Sample Disposal Instructions: DAL Disposal @ \$2.50 per Container Return Pickup

*Records are destroyed after 7 years



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

July 18, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1607-129

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on July 15, 2016.

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, 2016
Samples Submitted: July 15, 2016
Laboratory Reference: 1607-129
Project: 82302

Case Narrative

Samples were collected on July 15, 2016 and received by the laboratory on July 15, 2016. 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/SIM Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

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, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

HALOGENATED VOLATILES EPA 8260C/SIM

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-17:12in-24in					
Laboratory ID:	07-129-01					
Vinyl Chloride	ND	0.0013	EPA 8260C/SIM	7-15-16	7-15-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C/SIM	7-15-16	7-15-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C/SIM	7-15-16	7-15-16	
Trichloroethene	ND	0.0013	EPA 8260C/SIM	7-15-16	7-15-16	
Tetrachloroethene	0.010	0.0013	EPA 8260C/SIM	7-15-16	7-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</i>				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

HALOGENATED VOLATILES EPA 8260C/SIM

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-17:24in-36in					
Laboratory ID:	07-129-02					
Vinyl Chloride	ND	0.0013	EPA 8260C/SIM	7-15-16	7-18-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C/SIM	7-15-16	7-18-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C/SIM	7-15-16	7-18-16	
Trichloroethene	0.0043	0.0013	EPA 8260C/SIM	7-15-16	7-18-16	
Tetrachloroethene	0.073	0.026	EPA 8260C	7-15-16	7-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	94	76-131				
<i>Toluene-d8</i>	96	80-126				
<i>4-Bromofluorobenzene</i>	91	60-146				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

HALOGENATED VOLATILES EPA 8260C/SIM

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-17:48in-60in					
Laboratory ID:	07-129-03					
Vinyl Chloride	ND	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
(trans) 1,2-Dichloroethene	ND	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
(cis) 1,2-Dichloroethene	ND	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
Trichloroethene	0.0035	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
Tetrachloroethene	0.048	0.045	EPA 8260C	7-15-16	7-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

HALOGENATED VOLATILES EPA 8260C/SIM

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-18:12in-24in					
Laboratory ID:	07-129-04					
Vinyl Chloride	ND	0.0020	EPA 8260C/SIM	7-15-16	7-15-16	
(trans) 1,2-Dichloroethene	ND	0.0020	EPA 8260C/SIM	7-15-16	7-15-16	
(cis) 1,2-Dichloroethene	ND	0.0020	EPA 8260C/SIM	7-15-16	7-15-16	
Trichloroethene	0.0028	0.0020	EPA 8260C/SIM	7-15-16	7-15-16	
Tetrachloroethene	0.074	0.040	EPA 8260C	7-15-16	7-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	91	76-131				
<i>Toluene-d8</i>	96	80-126				
<i>4-Bromofluorobenzene</i>	89	60-146				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

HALOGENATED VOLATILES EPA 8260C/SIM

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-19:18in-30in					
Laboratory ID:	07-129-05					
Vinyl Chloride	ND	0.0011	EPA 8260C/SIM	7-15-16	7-15-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C/SIM	7-15-16	7-15-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C/SIM	7-15-16	7-15-16	
Trichloroethene	ND	0.0011	EPA 8260C/SIM	7-15-16	7-15-16	
Tetrachloroethene	ND	0.0011	EPA 8260C/SIM	7-15-16	7-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>71</i>	<i>60-146</i>				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

HALOGENATED VOLATILES EPA 8260C/SIM

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-19:48in-60in					
Laboratory ID:	07-129-06					
Vinyl Chloride	ND	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
(trans) 1,2-Dichloroethene	ND	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
(cis) 1,2-Dichloroethene	ND	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
Trichloroethene	ND	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
Tetrachloroethene	0.0048	0.0023	EPA 8260C/SIM	7-15-16	7-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>74</i>	<i>60-146</i>				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

HALOGENATED VOLATILES EPA 8260C/SIM

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-20:6in-18in					
Laboratory ID:	07-129-07					
Vinyl Chloride	ND	0.0019	EPA 8260C/SIM	7-15-16	7-15-16	
(trans) 1,2-Dichloroethene	ND	0.0019	EPA 8260C/SIM	7-15-16	7-15-16	
(cis) 1,2-Dichloroethene	ND	0.0019	EPA 8260C/SIM	7-15-16	7-15-16	
Trichloroethene	ND	0.0019	EPA 8260C/SIM	7-15-16	7-15-16	
Tetrachloroethene	ND	0.0019	EPA 8260C/SIM	7-15-16	7-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	89	76-131				
<i>Toluene-d8</i>	96	80-126				
<i>4-Bromofluorobenzene</i>	80	60-146				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

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

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0715S2						
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	7-15-16	7-15-16	
(trans) 1,2-Dichloroethene	ND	0.000050	EPA 8260C/SIM	7-15-16	7-15-16	
(cis) 1,2-Dichloroethene	ND	0.000050	EPA 8260C/SIM	7-15-16	7-15-16	
Trichloroethene	ND	0.000050	EPA 8260C/SIM	7-15-16	7-15-16	
Tetrachloroethene	ND	0.000050	EPA 8260C/SIM	7-15-16	7-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>60-146</i>				



Date of Report: July 18, 2016
 Samples Submitted: July 15, 2016
 Laboratory Reference: 1607-129
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C/SIM
 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:	SB0715S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0397	0.0439	0.0500	0.0500	79	88	68-126	10	15	
Benzene	0.0462	0.0509	0.0500	0.0500	92	102	75-121	10	15	
Trichloroethene	0.0450	0.0493	0.0500	0.0500	90	99	75-116	9	15	
Toluene	0.0491	0.0529	0.0500	0.0500	98	106	80-115	7	15	
Chlorobenzene	0.0470	0.0511	0.0500	0.0500	94	102	76-120	8	15	
<i>Surrogate:</i>										
Dibromofluoromethane					101	100	76-131			
Toluene-d8					102	100	80-126			
4-Bromofluorobenzene					100	99	60-146			



Date of Report: July 18, 2016
Samples Submitted: July 15, 2016
Laboratory Reference: 1607-129
Project: 82302

% MOISTURE

Date Analyzed: 7-15-16

Client ID	Lab ID	% Moisture
KSB-17:12in-24in	07-129-01	4
KSB-17:24in-36in	07-129-02	3
KSB-17:48in-60in	07-129-03	4
KSB-18:12in-24in	07-129-04	7
KSB-19:18in-30in	07-129-05	4
KSB-19:48in-60in	07-129-06	14
KSB-20:6in-18in	07-129-07	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





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

August 25, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-277

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 22, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 25, 2016
Samples Submitted: August 22, 2016
Laboratory Reference: 1608-277
Project: 82302

Case Narrative

Samples were collected on August 22, 2016 and received by the laboratory on August 22, 2016. 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

Method 5035A VOA vials were not provided for sample S-MW-1:6.5. The sample was therefore extracted from a 4-ounce jar and analyzed. Some loss of volatiles may have occurred.

Surrogate Standard Dibromofluoromethane is outside control limits for sample S-MW-1:65 due to sample matrix effects. The sample was re-extracted and reanalyzed with similar results.

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



Date of Report: August 25, 2016
 Samples Submitted: August 22, 2016
 Laboratory Reference: 1608-277
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:5-5.5					
Laboratory ID:	08-277-01					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0085	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0067	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0067	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.011	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0085	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:5-5.5					
Laboratory ID:	08-277-01					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	0.0042	0.0013	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0067	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	82	76-131				
<i>Toluene-d8</i>	92	80-126				
<i>4-Bromofluorobenzene</i>	109	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:7-7.5					
Laboratory ID:	08-277-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0072	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0096	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:7-7.5					
Laboratory ID:	08-277-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>123</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:10-11					
Laboratory ID:	08-277-03					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0064	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0086	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:10-11					
Laboratory ID:	08-277-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>77</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:15-16					
Laboratory ID:	08-277-04					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0059	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0046	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0046	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0079	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:15-16					
Laboratory ID:	08-277-04					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:20.5-21					
Laboratory ID:	08-277-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0072	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0096	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:20.5-21					
Laboratory ID:	08-277-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>81</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:5.2-6					
Laboratory ID:	08-277-07					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0080	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.011	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0016	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0080	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:5.2-6					
Laboratory ID:	08-277-07					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>78</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:10-11					
Laboratory ID:	08-277-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0069	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0093	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:10-11					
Laboratory ID:	08-277-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:15-16					
Laboratory ID:	08-277-09					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0085	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	0.0014	0.00099	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:15-16					
Laboratory ID:	08-277-09					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:20-20.75					
Laboratory ID:	08-277-10					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0058	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0045	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0045	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0078	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:20-20.75					
Laboratory ID:	08-277-10					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:6.5					
Laboratory ID:	08-277-12					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0069	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0093	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:6.5					
Laboratory ID:	08-277-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	23	76-131				Q
<i>Toluene-d8</i>	84	80-126				
<i>4-Bromofluorobenzene</i>	102	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:10-10.75					
Laboratory ID:	08-277-13					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0066	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0052	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0052	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0089	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:10-10.75					
Laboratory ID:	08-277-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	0.027	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	82	76-131				
<i>Toluene-d8</i>	93	80-126				
<i>4-Bromofluorobenzene</i>	116	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:15-16					
Laboratory ID:	08-277-14					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0060	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0047	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0047	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0080	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:15-16					
Laboratory ID:	08-277-14					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	0.096	0.00093	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>78</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:20-21					
Laboratory ID:	08-277-15					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0084	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	



Date of Report: August 25, 2016
 Samples Submitted: August 22, 2016
 Laboratory Reference: 1608-277
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:20-21					
Laboratory ID:	08-277-15					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	0.0098	0.00098	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 22, 2016
 Laboratory Reference: 1608-277
 Project: 82302

**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:	MB0823S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0064	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0086	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	



Date of Report: August 25, 2016
 Samples Submitted: August 22, 2016
 Laboratory Reference: 1608-277
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0823S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>60-146</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 22, 2016
 Laboratory Reference: 1608-277
 Project: 82302

**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:	SB0823S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0398	0.0404	0.0500	0.0500	80	81	68-126	1	15	
Benzene	0.0360	0.0364	0.0500	0.0500	72	73	70-121	1	15	
Trichloroethene	0.0454	0.0466	0.0500	0.0500	91	93	75-120	3	15	
Toluene	0.0445	0.0446	0.0500	0.0500	89	89	80-120	0	15	
Chlorobenzene	0.0449	0.0471	0.0500	0.0500	90	94	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					78	77	76-131			
<i>Toluene-d8</i>					84	86	80-126			
<i>4-Bromofluorobenzene</i>					103	110	60-146			



Date of Report: August 25, 2016
Samples Submitted: August 22, 2016
Laboratory Reference: 1608-277
Project: 82302

% MOISTURE

Date Analyzed: 8-23-16

Client ID	Lab ID	% Moisture
HZ-MW-21:5-5.5	08-277-01	8
HZ-MW-21:7-7.5	08-277-02	15
HZ-MW-21:10-11	08-277-03	14
HZ-MW-21:15-16	08-277-04	16
HZ-MW-21:20.5-21	08-277-05	21
HZ-MW-22:5.2-6	08-277-07	21
HZ-MW-22:10-11	08-277-08	21
HZ-MW-22:15-16	08-277-09	14
HZ-MW-22:20-20.75	08-277-10	13
S-MW-1:6.5	08-277-12	12
S-MW-1:10-10.75	08-277-13	15
S-MW-1:15-16	08-277-14	19
S-MW-1:20-21	08-277-15	14





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





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

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Laboratory Number: **08-277**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Date Sampled: 2016/08/22

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	Hold
% Moisture	X

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	HZ-MW-21:5-5.5		0855	soil
2	HZ-MW-21:7-7.5		0905	
3	HZ-MW-21:10-11		0915	
4	HZ-MW-21:15-16		0925	
5	HZ-MW-21:20.5-21		0935	
6	HZ-MW-21:25.5-26		0945	
7	HZ-MW-22:5.2-6		1150	
8	HZ-MW-22:10-11		1155	
9	HZ-MW-22:15-16		1205	
10	HZ-MW-22:20-20.75		1212	

Received/Date	Signature	Company
Relinquished		Kene Environmental
Received		OSE
Relinquished		
Received		
Relinquished		
Received		
Relinquished		
Received		
Relinquished		
Reviewed/Date		Reviewed/Date

Received/Date	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		Kene Environmental	2016/08/22	1630	
Received		OSE	8/22/16	1630	
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			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 type="checkbox"/>



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

August 30, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-297

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 24, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-297
Project: 82302

Case Narrative

Samples were collected on August 23, 2016 and received by the laboratory on August 24, 2016. 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: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:5					
Laboratory ID:	08-297-01					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0074	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0074	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0074	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:5					
Laboratory ID:	08-297-01					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0074	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0074	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:6.5					
Laboratory ID:	08-297-02					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:6.5					
Laboratory ID:	08-297-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:10					
Laboratory ID:	08-297-03					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:10					
Laboratory ID:	08-297-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	0.0016	0.0012	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	76-131				
<i>Toluene-d8</i>	99	80-126				
<i>4-Bromofluorobenzene</i>	98	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:15					
Laboratory ID:	08-297-04					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0060	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0060	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0060	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:15					
Laboratory ID:	08-297-04					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:20					
Laboratory ID:	08-297-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0040	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0040	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0040	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0040	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:20					
Laboratory ID:	08-297-05					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:25					
Laboratory ID:	08-297-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0046	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0046	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0046	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0046	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:25					
Laboratory ID:	08-297-06					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:30					
Laboratory ID:	08-297-07					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Chloromethane	ND	0.0060	EPA 8260C	8-25-16	8-26-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromomethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Chloroethane	ND	0.0060	EPA 8260C	8-25-16	8-26-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Iodomethane	ND	0.0060	EPA 8260C	8-25-16	8-26-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-25-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Chloroform	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	8-25-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:30					
Laboratory ID:	08-297-07					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromoform	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	8-25-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:35					
Laboratory ID:	08-297-08					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-25-16	8-26-16	
Chloromethane	ND	0.0057	EPA 8260C	8-25-16	8-26-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Bromomethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Chloroethane	ND	0.0057	EPA 8260C	8-25-16	8-26-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Iodomethane	ND	0.0057	EPA 8260C	8-25-16	8-26-16	
Methylene Chloride	ND	0.0057	EPA 8260C	8-25-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Chloroform	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-25-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:35					
Laboratory ID:	08-297-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Bromoform	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-25-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:38					
Laboratory ID:	08-297-09					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Chloromethane	ND	0.0047	EPA 8260C	8-25-16	8-26-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Bromomethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Chloroethane	ND	0.0047	EPA 8260C	8-25-16	8-26-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Iodomethane	ND	0.0047	EPA 8260C	8-25-16	8-26-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-25-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Chloroform	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-25-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:38					
Laboratory ID:	08-297-09					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Tetrachloroethene	0.0015	0.00095	EPA 8260C	8-25-16	8-26-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Bromoform	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-25-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-25-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:5					
Laboratory ID:	08-297-10					
Dichlorodifluoromethane	ND	0.0021	EPA 8260C	8-25-16	8-26-16	
Chloromethane	ND	0.0082	EPA 8260C	8-25-16	8-26-16	
Vinyl Chloride	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Bromomethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Chloroethane	ND	0.0082	EPA 8260C	8-25-16	8-26-16	
Trichlorofluoromethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Iodomethane	ND	0.0082	EPA 8260C	8-25-16	8-26-16	
Methylene Chloride	ND	0.0082	EPA 8260C	8-25-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
2,2-Dichloropropane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Bromochloromethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Chloroform	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Carbon Tetrachloride	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloropropene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloroethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Trichloroethene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloropropane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Dibromomethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Bromodichloromethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0082	EPA 8260C	8-25-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:5					
Laboratory ID:	08-297-10					
1,1,2-Trichloroethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Tetrachloroethene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,3-Dichloropropane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Dibromochloromethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromoethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Chlorobenzene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Bromoform	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Bromobenzene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
2-Chlorotoluene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
4-Chlorotoluene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0082	EPA 8260C	8-25-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
Hexachlorobutadiene	ND	0.0082	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0016	EPA 8260C	8-25-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:5.5-6					
Laboratory ID:	08-297-11					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0069	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0069	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0069	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0089	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:5.5-6					
Laboratory ID:	08-297-11					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0069	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:10-10.5					
Laboratory ID:	08-297-12					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-25-16	8-26-16	
Chloromethane	ND	0.0052	EPA 8260C	8-25-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Chloroethane	ND	0.0052	EPA 8260C	8-25-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Iodomethane	ND	0.0052	EPA 8260C	8-25-16	8-26-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-25-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-25-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:10-10.5					
Laboratory ID:	08-297-12					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-25-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:15.5-16					
Laboratory ID:	08-297-13					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-25-16	8-26-16	
Chloromethane	ND	0.0058	EPA 8260C	8-25-16	8-26-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromomethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Chloroethane	ND	0.0058	EPA 8260C	8-25-16	8-26-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Iodomethane	ND	0.0058	EPA 8260C	8-25-16	8-26-16	
Methylene Chloride	ND	0.0058	EPA 8260C	8-25-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Chloroform	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-25-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:15.5-16					
Laboratory ID:	08-297-13					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromoform	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	8-25-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	8-25-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-25-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:20.5-21					
Laboratory ID:	08-297-14					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	0.0028	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:20.5-21					
Laboratory ID:	08-297-14					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:25.5-26					
Laboratory ID:	08-297-15					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0057	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0057	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0057	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0057	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:25.5-26					
Laboratory ID:	08-297-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:30-31					
Laboratory ID:	08-297-16					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0065	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0065	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0065	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0084	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:30-31					
Laboratory ID:	08-297-16					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	0.0043	0.0013	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0065	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:35-35.75					
Laboratory ID:	08-297-17					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:35-35.75					
Laboratory ID:	08-297-17					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	0.045	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:7					
Laboratory ID:	08-297-18					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0067	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0067	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0067	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0088	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:7					
Laboratory ID:	08-297-18					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	0.0015	0.0013	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0067	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:10					
Laboratory ID:	08-297-19					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0079	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:10					
Laboratory ID:	08-297-19					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	0.0012	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:15					
Laboratory ID:	08-297-20					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0088	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:15					
Laboratory ID:	08-297-20					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	0.0024	0.0014	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:20					
Laboratory ID:	08-297-21					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0066	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0066	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0066	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0086	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	0.037	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	0.067	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:20					
Laboratory ID:	08-297-21					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	4.2	0.074	EPA 8260C	8-27-16	8-28-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0066	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	76-131				
<i>Toluene-d8</i>	103	80-126				
<i>4-Bromofluorobenzene</i>	93	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:25					
Laboratory ID:	08-297-22					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0064	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0064	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0064	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0083	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	0.0037	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:25					
Laboratory ID:	08-297-22					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	1.7	0.067	EPA 8260C	8-27-16	8-28-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:30					
Laboratory ID:	08-297-23					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	0.0043	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	0.0036	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:30					
Laboratory ID:	08-297-23					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	0.23	0.062	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:35					
Laboratory ID:	08-297-24					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0051	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0051	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0051	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0067	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	0.0015	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:35					
Laboratory ID:	08-297-24					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	0.35	0.061	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:40					
Laboratory ID:	08-297-25					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:40					
Laboratory ID:	08-297-25					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	0.039	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:45					
Laboratory ID:	08-297-26					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0067	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0067	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0067	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0067	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:45					
Laboratory ID:	08-297-26					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0067	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	76-131				
<i>Toluene-d8</i>	95	80-126				
<i>4-Bromofluorobenzene</i>	93	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:50					
Laboratory ID:	08-297-27					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:50					
Laboratory ID:	08-297-27					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:5-5.25					
Laboratory ID:	08-297-28					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0080	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:5-5.25					
Laboratory ID:	08-297-28					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	76-131				
<i>Toluene-d8</i>	97	80-126				
<i>4-Bromofluorobenzene</i>	96	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:6.5-7					
Laboratory ID:	08-297-29					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0051	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0051	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0051	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0051	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:6.5-7					
Laboratory ID:	08-297-29					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:10.5-11					
Laboratory ID:	08-297-30					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:10.5-11					
Laboratory ID:	08-297-30					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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 Laboratory Reference: 1608-297
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:15-15.5					
Laboratory ID:	08-297-31					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0079	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:15-15.5					
Laboratory ID:	08-297-31					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:20.5-21					
Laboratory ID:	08-297-32					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0057	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0057	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0057	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0082	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:20.5-21					
Laboratory ID:	08-297-32					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</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:	HZ-MW-26:25.5-26					
Laboratory ID:	08-297-33					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:25.5-26					
Laboratory ID:	08-297-33					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</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:	HZ-MW-26:30.5-31					
Laboratory ID:	08-297-34					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:30.5-31					
Laboratory ID:	08-297-34					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</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:	HZ-MW-26:35-35.5					
Laboratory ID:	08-297-35					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0058	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0058	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0058	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0058	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	0.025	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	0.024	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:35-35.5					
Laboratory ID:	08-297-35					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	0.96	0.070	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0825S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0825S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0065	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0826S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0827S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</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:	MB0828S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0072	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0828S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

**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:	SB0825S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0356	0.0347	0.0500	0.0500	71	69	68-126	3	15	
Benzene	0.0404	0.0403	0.0500	0.0500	81	81	70-121	0	15	
Trichloroethene	0.0429	0.0422	0.0500	0.0500	86	84	75-120	2	15	
Toluene	0.0434	0.0429	0.0500	0.0500	87	86	80-120	1	15	
Chlorobenzene	0.0456	0.0450	0.0500	0.0500	91	90	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	100	76-131			
<i>Toluene-d8</i>					99	101	80-126			
<i>4-Bromofluorobenzene</i>					99	101	60-146			



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

**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:	SB0826S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0481	0.0482	0.0500	0.0500	96	96	68-126	0	15	
Benzene	0.0493	0.0482	0.0500	0.0500	99	96	70-121	2	15	
Trichloroethene	0.0479	0.0483	0.0500	0.0500	96	97	75-120	1	15	
Toluene	0.0490	0.0488	0.0500	0.0500	98	98	80-120	0	15	
Chlorobenzene	0.0496	0.0492	0.0500	0.0500	99	98	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>96</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>102</i>	<i>101</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>99</i>	<i>60-146</i>			



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0827S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0516	0.0515	0.0500	0.0500	103	103	68-126	0	15	
Benzene	0.0491	0.0496	0.0500	0.0500	98	99	70-121	1	15	
Trichloroethene	0.0475	0.0488	0.0500	0.0500	95	98	75-120	3	15	
Toluene	0.0500	0.0507	0.0500	0.0500	100	101	80-120	1	15	
Chlorobenzene	0.0516	0.0512	0.0500	0.0500	103	102	76-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					102	99	76-131			
Toluene-d8					100	103	80-126			
4-Bromofluorobenzene					102	101	60-146			



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

**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:	SB0828S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0456	0.0492	0.0500	0.0500	91	98	68-126	8	15	
Benzene	0.0455	0.0465	0.0500	0.0500	91	93	70-121	2	15	
Trichloroethene	0.0452	0.0484	0.0500	0.0500	90	97	75-120	7	15	
Toluene	0.0467	0.0502	0.0500	0.0500	93	100	80-120	7	15	
Chlorobenzene	0.0478	0.0508	0.0500	0.0500	96	102	76-120	6	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	85	76-131			
Toluene-d8					100	104	80-126			
4-Bromofluorobenzene					99	100	60-146			



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-297
 Project: 82302

% MOISTURE

Date Analyzed: 8-25&26-16

Client ID	Lab ID	% Moisture
HZ-MW-23:5	08-297-01	22
HZ-MW-23:6.5	08-297-02	23
HZ-MW-23:10	08-297-03	23
HZ-MW-23:15	08-297-04	20
HZ-MW-23:20	08-297-05	18
HZ-MW-23:25	08-297-06	18
HZ-MW-23:30	08-297-07	15
HZ-MW-23:35	08-297-08	21
HZ-MW-23:38	08-297-09	11
HZ-MW-25:5	08-297-10	16
HZ-MW-24:5.5-6	08-297-11	24
HZ-MW-24:10-10.5	08-297-12	16
HZ-MW-24:15.5-16	08-297-13	18
HZ-MW-24:20.5-21	08-297-14	23
HZ-MW-24:25.5-26	08-297-15	21
HZ-MW-24:30-31	08-297-16	23
HZ-MW-24:35-35.75	08-297-17	21
HZ-MW-25:7	08-297-18	23
HZ-MW-25:10	08-297-19	22
HZ-MW-25:15	08-297-20	23
HZ-MW-25:20	08-297-21	23
HZ-MW-25:25	08-297-22	19
HZ-MW-25:30	08-297-23	14
HZ-MW-25:35	08-297-24	14
HZ-MW-25:40	08-297-25	15
HZ-MW-25:45	08-297-26	20
HZ-MW-25:50	08-297-27	16



Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-297
Project: 82302

% MOISTURE

Date Analyzed: 8-26-16

Client ID	Lab ID	% Moisture
HZ-MW-26:5-5.25	08-297-28	5
HZ-MW-26:6.5-7	08-297-29	16
HZ-MW-26:10.5-11	08-297-30	22
HZ-MW-26:15-15.5	08-297-31	23
HZ-MW-26:20.5-21	08-297-32	18
HZ-MW-26:25.5-26	08-297-33	14
HZ-MW-26:30.5-31	08-297-34	13
HZ-MW-26:35-35.5	08-297-35	17





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





M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 893-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-297**

Company: Kinc Environmental
 Project Number: 82302
 Project Name: Bothell Service Center
 Project Manager: Justin Vetter
 Sampled by: Jeff Jensen

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	H2-MW-23:5	8/23/16	0930	Soil	4
2	H2-MW-23:6.5	8/23/16	0935		
3	H2-MW-23:10	8/23/16	0938		
4	H2-MW-23:15	8/23/16	0945		
5	H2-MW-23:20	8/23/16	0950		
6	H2-MW-23:25	8/23/16	0957		
7	H2-MW-23:30	8/23/16	1000		
8	H2-MW-23:35	8/23/16	1020		
9	H2-MW-23:38	8/23/16	1025		
10	H2-MW-23:5	8/23/16	1345		

Parameter	Tested
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	

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received/Date

Signature
 Company
 Date
 Time

Comments/Special Instructions

Relinquished: [Signature] Kinc Environmental
 Received: [Signature] SPERRY 8/24 11:35
 Relinquished: [Signature] SPERRY 8/24 12:15
 Received: [Signature] QRE
 Relinquished: [Signature]
 Received/Date: [Signature] QRE

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.on-site-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: **08-297**

Company: Kone Environmental
 Project Number: 82302
 Project Name: Bohelli Service Center
 Project Manager: Justin Vetter
 Sampled by: Vance Atkins

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
25	H2 mu - 25 - 42	8/23/16	1440	soil
26	H2 mu - 25 - 45		1450	
27	H2 mu - 25 - 50		1500	

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

Signature	Company	Date	Time	Comments/Special Instructions
	Kone Environmental	2016/09/24	1135	
	Kone Environmental	8/24	1135	
	Kone Environmental	8/24	12:15	
	Kone Environmental	8/24/16	1215	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Relinquished

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDL)



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

September 1, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-319

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 1, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-319
Project: 82302

Case Narrative

Samples were collected on August 25, 2016 and received by the laboratory on August 25, 2016. 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: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-319
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:2					
Laboratory ID:	08-319-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	0.0056	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-319
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:2					
Laboratory ID:	08-319-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.14	0.0011	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:10					
Laboratory ID:	08-319-02					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	0.0012	0.00093	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	0.0025	0.00093	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:10					
Laboratory ID:	08-319-02					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.050	0.00093	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:20					
Laboratory ID:	08-319-03					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0064	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:20					
Laboratory ID:	08-319-03					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.0015	0.00095	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</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:	KSB-D2:30					
Laboratory ID:	08-319-04					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0068	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0068	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0068	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0091	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:30					
Laboratory ID:	08-319-04					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</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:	KSB-D2:40					
Laboratory ID:	08-319-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:40					
Laboratory ID:	08-319-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-319
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:50					
Laboratory ID:	08-319-06					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0051	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0051	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0051	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0069	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D2:50					
Laboratory ID:	08-319-06					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:4					
Laboratory ID:	08-319-07					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Chloromethane	ND	0.0067	EPA 8260C	8-31-16	8-31-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Bromomethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Chloroethane	ND	0.0067	EPA 8260C	8-31-16	8-31-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Iodomethane	ND	0.0067	EPA 8260C	8-31-16	8-31-16	
Methylene Chloride	ND	0.0067	EPA 8260C	8-31-16	8-31-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Chloroform	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	8-31-16	8-31-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:4					
Laboratory ID:	08-319-07					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Tetrachloroethene	0.017	0.0013	EPA 8260C	8-31-16	8-31-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Bromoform	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	8-31-16	8-31-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
Hexachlorobutadiene	ND	0.0067	EPA 8260C	8-31-16	8-31-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-31-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</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:	KSB-D1:9					
Laboratory ID:	08-319-08					
Dichlorodifluoromethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0043	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0043	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0043	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0058	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:9					
Laboratory ID:	08-319-08					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.0017	0.00086	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</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:	KSB-D1:20					
Laboratory ID:	08-319-09					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0045	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0045	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0045	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:20					
Laboratory ID:	08-319-09					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-3:5-5.25					
Laboratory ID:	08-319-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0061	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0061	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0061	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0081	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	0.0023	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-3:5-5.25					
Laboratory ID:	08-319-10					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.0071	0.0012	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</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:	MW-25:6					
Laboratory ID:	08-319-17					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.010	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	0.0016	0.0015	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	0.0032	0.0015	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25:6					
Laboratory ID:	08-319-17					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.027	0.0015	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0077	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25:7					
Laboratory ID:	08-319-18					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0089	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	0.0025	0.0013	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25:7					
Laboratory ID:	08-319-18					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.019	0.0013	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26:5.5					
Laboratory ID:	08-319-23					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0060	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0060	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0060	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0081	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	0.0015	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26:5.5					
Laboratory ID:	08-319-23					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.015	0.0012	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</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:	MW-26:7.5					
Laboratory ID:	08-319-24					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0059	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0059	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0059	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0079	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	



Date of Report: September 1, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26:7.5					
Laboratory ID:	08-319-24					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	0.0098	0.0012	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: September 1, 2016
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**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:	MB0830S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	



Date of Report: September 1, 2016
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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:		MB0830S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
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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:	MB0831S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Chloromethane	ND	0.0050	EPA 8260C	8-31-16	8-31-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Bromomethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Chloroethane	ND	0.0050	EPA 8260C	8-31-16	8-31-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Iodomethane	ND	0.0050	EPA 8260C	8-31-16	8-31-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-31-16	8-31-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Chloroform	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-31-16	8-31-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-319
 Project: 82302

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0831S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Bromoform	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-31-16	8-31-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-31-16	8-31-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-31-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-319
 Project: 82302

**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:	SB0830S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0485	0.0503	0.0500	0.0500	97	101	68-126	4	15	
Benzene	0.0469	0.0479	0.0500	0.0500	94	96	70-121	2	15	
Trichloroethene	0.0476	0.0483	0.0500	0.0500	95	97	75-120	1	15	
Toluene	0.0481	0.0488	0.0500	0.0500	96	98	80-120	1	15	
Chlorobenzene	0.0507	0.0502	0.0500	0.0500	101	100	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	98	76-131			
<i>Toluene-d8</i>					101	103	80-126			
<i>4-Bromofluorobenzene</i>					101	102	60-146			



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-319
 Project: 82302

**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:	SB0831S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0483	0.0487	0.0500	0.0500	97	97	68-126	1	15	
Benzene	0.0471	0.0471	0.0500	0.0500	94	94	70-121	0	15	
Trichloroethene	0.0496	0.0483	0.0500	0.0500	99	97	75-120	3	15	
Toluene	0.0492	0.0491	0.0500	0.0500	98	98	80-120	0	15	
Chlorobenzene	0.0504	0.0511	0.0500	0.0500	101	102	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	102	76-131			
<i>Toluene-d8</i>					99	103	80-126			
<i>4-Bromofluorobenzene</i>					96	104	60-146			



Date of Report: September 1, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-319
Project: 82302

% MOISTURE

Date Analyzed: 8-30-16

Client ID	Lab ID	% Moisture
KSB-D2:2	08-319-01	7
KSB-D2:10	08-319-02	19
KSB-D2:20	08-319-03	17
KSB-D2:30	08-319-04	22
KSB-D2:40	08-319-05	20
KSB-D2:50	08-319-06	19
KSB-D1:4	08-319-07	30
KSB-D1:9	08-319-08	20
KSB-D1:20	08-319-09	19
S-MW-3-5-5.25	08-319-10	8
MW-25:6	08-319-17	27
MW-25:7	08-319-18	16
MW-26:5.5	08-319-23	18
MW-26:7.5	08-319-24	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

September 1, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-327

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 1, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-327
Project: 82302

Case Narrative

Samples were collected on August 24, 2016 and received by the laboratory on August 25, 2016. 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: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-327
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:50					
Laboratory ID:	08-327-01					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0058	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0058	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0058	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0058	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:50					
Laboratory ID:	08-327-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</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:	HZ-MW-27:55					
Laboratory ID:	08-327-02					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0052	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0052	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0052	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:55					
Laboratory ID:	08-327-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:5					
Laboratory ID:	08-327-03					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:5					
Laboratory ID:	08-327-03					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</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:	HZ-MW-27:10					
Laboratory ID:	08-327-04					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0061	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0061	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0061	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0061	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	0.0016	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:10					
Laboratory ID:	08-327-04					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	0.0065	0.0012	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</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:	HZ-MW-27:15					
Laboratory ID:	08-327-05					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	0.0095	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	0.0013	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:15					
Laboratory ID:	08-327-05					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	0.0052	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:20					
Laboratory ID:	08-327-06					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:20					
Laboratory ID:	08-327-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:25					
Laboratory ID:	08-327-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:25					
Laboratory ID:	08-327-07					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:30					
Laboratory ID:	08-327-08					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0069	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0069	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0069	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0094	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	0.037	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	0.091	0.070	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:30					
Laboratory ID:	08-327-08					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	3.2	0.070	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0069	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:32					
Laboratory ID:	08-327-09					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0049	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0049	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0049	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0066	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	0.013	0.00098	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	0.015	0.00098	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:32					
Laboratory ID:	08-327-09					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	1.2	0.055	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:35					
Laboratory ID:	08-327-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0045	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0045	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0045	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0061	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	0.015	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	0.023	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:35					
Laboratory ID:	08-327-10					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	1.2	0.057	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:40					
Laboratory ID:	08-327-11					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0054	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0054	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0054	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	0.022	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	0.0087	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:40					
Laboratory ID:	08-327-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	0.78	0.056	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:45					
Laboratory ID:	08-327-12					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0070	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:45					
Laboratory ID:	08-327-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:5.25-5.6					
Laboratory ID:	08-327-13					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0072	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0055	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0055	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0055	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	0.0011	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:5.25-5.6					
Laboratory ID:	08-327-13					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	0.0018	0.0011	EPA 8260C	8-28-16	8-29-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:6.5-7					
Laboratory ID:	08-327-14					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0082	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0063	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0063	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:6.5-7					
Laboratory ID:	08-327-14					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:10.5-11					
Laboratory ID:	08-327-15					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0068	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	0.0095	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0052	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0052	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	0.0027	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	0.060	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	0.025	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:10.5-11					
Laboratory ID:	08-327-15					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	0.081	0.0010	EPA 8260C	8-28-16	8-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:15-15.5					
Laboratory ID:	08-327-16					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0065	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0050	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0050	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	0.0013	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	0.0048	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:15-15.5					
Laboratory ID:	08-327-16					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	1.3	0.067	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:20.5-21					
Laboratory ID:	08-327-17					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0058	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	0.0015	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:20.5-21					
Laboratory ID:	08-327-17					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	0.81	0.060	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:25-25.5					
Laboratory ID:	08-327-18					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0088	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0068	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0068	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:25-25.5					
Laboratory ID:	08-327-18					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	0.0028	0.0014	EPA 8260C	8-28-16	8-29-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0828S2					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0828S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0830S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	0.0067	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-327
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0830S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-327
 Project: 82302

**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:	SB0828S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0499	0.0513	0.0500	0.0500	100	103	68-126	3	15	
Benzene	0.0555	0.0570	0.0500	0.0500	111	114	70-121	3	15	
Trichloroethene	0.0502	0.0501	0.0500	0.0500	100	100	75-120	0	15	
Toluene	0.0563	0.0554	0.0500	0.0500	113	111	80-120	2	15	
Chlorobenzene	0.0492	0.0476	0.0500	0.0500	98	95	76-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>105</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>104</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>97</i>	<i>60-146</i>			



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-327
 Project: 82302

**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:	SB0829S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0442	0.0500	0.0500	90	88	68-126	2	15	
Benzene	0.0442	0.0449	0.0500	0.0500	88	90	70-121	2	15	
Trichloroethene	0.0479	0.0437	0.0500	0.0500	96	87	75-120	9	15	
Toluene	0.0477	0.0452	0.0500	0.0500	95	90	80-120	5	15	
Chlorobenzene	0.0503	0.0460	0.0500	0.0500	101	92	76-120	9	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	101	76-131			
Toluene-d8					99	100	80-126			
4-Bromofluorobenzene					98	98	60-146			



Date of Report: September 1, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-327
 Project: 82302

**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:	SB0830S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0485	0.0503	0.0500	0.0500	97	101	68-126	4	15	
Benzene	0.0469	0.0479	0.0500	0.0500	94	96	70-121	2	15	
Trichloroethene	0.0476	0.0483	0.0500	0.0500	95	97	75-120	1	15	
Toluene	0.0481	0.0488	0.0500	0.0500	96	98	80-120	1	15	
Chlorobenzene	0.0507	0.0502	0.0500	0.0500	101	100	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	98	76-131			
<i>Toluene-d8</i>					101	103	80-126			
<i>4-Bromofluorobenzene</i>					101	102	60-146			



Date of Report: September 1, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-327
Project: 82302

% MOISTURE

Date Analyzed: 8-29-16

Client ID	Lab ID	% Moisture
HZ-MW-27:50	08-327-01	23
HZ-MW-27:55	08-327-02	19
HZ-MW-27:5	08-327-03	24
HZ-MW-27:10	08-327-04	25
HZ-MW-27:15	08-327-05	17
HZ-MW-27:20	08-327-06	23
HZ-MW-27:25	08-327-07	17
HZ-MW-27:30	08-327-08	26
HZ-MW-27:32	08-327-09	17
HZ-MW-27:35	08-327-10	14
HZ-MW-27:40	08-327-11	11
HZ-MW-27:45	08-327-12	15
S-MW-2:5.25-5.6	08-327-13	17
S-MW-2:6.5-7	08-327-14	10
S-MW-2:10.5-11	08-327-15	24
S-MW-2:15-15.5	08-327-16	17
S-MW-2:20.5-21	08-327-17	17
S-MW-2:25-25.5	08-327-18	21





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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





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

Chain of Custody

Page 1 of 3

Turnaround Request
 (In working days)
 (Check One)

Laboratory Number: **08-327**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

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

Company: Kane Environmental
 Project Number: 823082
 Project Name: Botzell Service Center
 Project Manager: Justin Vetter
 Sampled by: Justin Vetter

Lab ID Sample Identification Date Sampled Time Sampled Matrix

1 HZ-MW-27:50 20/08/24 1419 soil 4
 2 HZ-MW-27:55 1434 I I

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		Kane Environmental	20/08/25	10:12	
Received		SPCED-1	8/25/16	10:10	
Relinquished		SPCED-1	8/25/16	10:40	
Received		COBE	8/25/16	10:40	
Relinquished					
Received					
Relinquished					
Reviewed/Date					

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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Chain of Custody

Page 1 of 3

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: **08-327**

Company: Kane Environmental
 Project Number: 823082
 Project Name: Botwell Service Center
 Project Manager: Justin Vetter
 Sampled by: Justin Vetter

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	HZ-MW-27:50	20/08/24	1419	soil
2	HZ-MW-27:55		1434	L

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	

Signature	Company	Date	Time	Comments/Special Instructions
	Kane Environmental	20/08/25	1012	
	SPCED-1	8/25/16	1018	
	SPCED-1	8/25/16	1040	
	CORE	8/25/16	1040	

Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Received _____
 Relinquished _____
 Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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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: **08-327**

Company: **Kane Environmental**
 Project Number: **82302**
 Project Name: **BSC**
 Project Manager: **Justin Vetter**
 Sampled by: **Jeffrey Jensen**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
13	S-MW-2: 5.25-5.6	8/24/16	1238	Soil	4
14	S-MW-2: 6.5-7		1245	Soil	4
15	S-MW-2: 10.5-11		1250	Soil	4
16	S-MW-2: 15-15.5		1257	Soil	4
17	S-MW-2: 20.5-21		1305	Soil	4
18	S-MW-2: 25-25.5		1310	Soil	4
19	TRIP BLANK			W	1

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
4						X												
4						X												
4						X												
4						X												
4						X												
4						X												
4						X												
1																		

Signature	Company	Date	Time	Comments/Special Instructions
	Kane Environmental	8/25/16	1010	
	Kane Environmental	8/25/16	1010	
	Kane Environmental	8/25/16	1040	
	Kane Environmental	8/25/16	1040	

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

August 31, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-345

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 31, 2016
Samples Submitted: August 26, 2016
Laboratory Reference: 1608-345
Project: 82302

Case Narrative

Samples were collected on August 26, 2016 and received by the laboratory on August 26, 2016. 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: August 31, 2016
 Samples Submitted: August 26, 2016
 Laboratory Reference: 1608-345
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:5.5					
Laboratory ID:	08-345-04					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0064	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0064	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0064	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0092	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	



Date of Report: August 31, 2016
 Samples Submitted: August 26, 2016
 Laboratory Reference: 1608-345
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:5.5					
Laboratory ID:	08-345-04					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: August 31, 2016
 Samples Submitted: August 26, 2016
 Laboratory Reference: 1608-345
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:7					
Laboratory ID:	08-345-06					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0062	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0062	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0062	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0089	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:7					
Laboratory ID:	08-345-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:30					
Laboratory ID:	08-345-11					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:30					
Laboratory ID:	08-345-11					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:40					
Laboratory ID:	08-345-12					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0049	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0049	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0049	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0071	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:40					
Laboratory ID:	08-345-12					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:50					
Laboratory ID:	08-345-13					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0051	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0051	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0051	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:50					
Laboratory ID:	08-345-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:55					
Laboratory ID:	08-345-14					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0051	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0051	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0051	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:55					
Laboratory ID:	08-345-14					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:60					
Laboratory ID:	08-345-15					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-29-16	
Chloromethane	ND	0.0047	EPA 8260C	8-28-16	8-29-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Bromomethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Chloroethane	ND	0.0047	EPA 8260C	8-28-16	8-29-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Iodomethane	ND	0.0047	EPA 8260C	8-28-16	8-29-16	
Methylene Chloride	ND	0.0064	EPA 8260C	8-28-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Chloroform	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Trichloroethene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-28-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D1:60					
Laboratory ID:	08-345-15					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Bromoform	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-28-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-28-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-28-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</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:	MB0828S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0072	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0828S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</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:	MB0828S2					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



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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:		MB0828S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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**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:	SB0828S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0456	0.0492	0.0500	0.0500	91	98	68-126	8	15	
Benzene	0.0455	0.0465	0.0500	0.0500	91	93	70-121	2	15	
Trichloroethene	0.0452	0.0484	0.0500	0.0500	90	97	75-120	7	15	
Toluene	0.0467	0.0502	0.0500	0.0500	93	100	80-120	7	15	
Chlorobenzene	0.0478	0.0508	0.0500	0.0500	96	102	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	85	76-131			
<i>Toluene-d8</i>					100	104	80-126			
<i>4-Bromofluorobenzene</i>					99	100	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0828S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0499	0.0513	0.0500	0.0500	100	103	68-126	3	15	
Benzene	0.0555	0.0570	0.0500	0.0500	111	114	70-121	3	15	
Trichloroethene	0.0502	0.0501	0.0500	0.0500	100	100	75-120	0	15	
Toluene	0.0563	0.0554	0.0500	0.0500	113	111	80-120	2	15	
Chlorobenzene	0.0492	0.0476	0.0500	0.0500	98	95	76-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>105</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>104</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>97</i>	<i>60-146</i>			



Date of Report: August 31, 2016
Samples Submitted: August 26, 2016
Laboratory Reference: 1608-345
Project: 82302

% MOISTURE

Date Analyzed: 8-29-16

Client ID	Lab ID	% Moisture
MW-23:5.5	08-345-04	6
MW-23:7	08-345-06	10
KSB-D1:30	08-345-11	17
KSB-D1:40	08-345-12	18
KSB-D1:50	08-345-13	15
KSB-D1:55	08-345-14	11
KSB-D1:60	08-345-15	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





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

September 7, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-360

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 29, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 7, 2016
Samples Submitted: August 29, 2016
Laboratory Reference: 1608-360
Project: 82302

Case Narrative

Samples were collected on August 29, 2016 and received by the laboratory on August 29, 2016. 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: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:2.5					
Laboratory ID:	08-360-01					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0052	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0052	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0052	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0052	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:2.5					
Laboratory ID:	08-360-01					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.011	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:5					
Laboratory ID:	08-360-02					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:5					
Laboratory ID:	08-360-02					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.022	0.0014	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:2.5					
Laboratory ID:	08-360-08					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0074	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0074	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0074	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0074	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:2.5					
Laboratory ID:	08-360-08					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.0054	0.0015	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0074	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0074	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:5					
Laboratory ID:	08-360-09					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0065	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0065	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0065	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0065	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:5					
Laboratory ID:	08-360-09					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.040	0.0013	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0065	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:3					
Laboratory ID:	08-360-17					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:3					
Laboratory ID:	08-360-17					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.035	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:5					
Laboratory ID:	08-360-18					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0053	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0053	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0053	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0053	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:5					
Laboratory ID:	08-360-18					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.034	0.0011	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:10					
Laboratory ID:	08-360-19					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	1.5	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	1.5	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	1.5	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	4.3	0.31	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	1.5	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.31	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:10					
Laboratory ID:	08-360-19					
1,1,2-Trichloroethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	35000	240	EPA 8260C	9-1-16	9-2-16	
1,3-Dichloropropane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.31	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	1.5	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	1.5	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.31	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:14					
Laboratory ID:	08-360-20					
Dichlorodifluoromethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.37	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.37	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.37	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.48	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.37	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.073	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:14					
Laboratory ID:	08-360-20					
1,1,2-Trichloroethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	14	0.073	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,1,1,2,2-Tetrachloroethane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.073	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.37	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.37	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.073	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:20					
Laboratory ID:	08-360-21					
Dichlorodifluoromethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.29	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.29	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.29	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.38	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.29	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.058	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:20					
Laboratory ID:	08-360-21					
1,1,2-Trichloroethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	8.6	0.058	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,1,1,2,2-Tetrachloroethane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.058	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.29	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.29	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.058	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:25					
Laboratory ID:	08-360-22					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Chloromethane	ND	0.0045	EPA 8260C	9-1-16	9-2-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Bromomethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Chloroethane	ND	0.0045	EPA 8260C	9-1-16	9-2-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Iodomethane	ND	0.0045	EPA 8260C	9-1-16	9-2-16	
Methylene Chloride	ND	0.0045	EPA 8260C	9-1-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Bromochloromethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Chloroform	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Trichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Dibromomethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	9-1-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:25					
Laboratory ID:	08-360-22					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Tetrachloroethene	0.014	0.00090	EPA 8260C	9-1-16	9-2-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Chlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Bromoform	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Bromobenzene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	9-1-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:28					
Laboratory ID:	08-360-23					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chloromethane	ND	0.0061	EPA 8260C	9-1-16	9-2-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromomethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chloroethane	ND	0.0061	EPA 8260C	9-1-16	9-2-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Iodomethane	ND	0.0061	EPA 8260C	9-1-16	9-2-16	
Methylene Chloride	ND	0.0061	EPA 8260C	9-1-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chloroform	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	9-1-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:28					
Laboratory ID:	08-360-23					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Tetrachloroethene	0.83	0.057	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromoform	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	9-1-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:40					
Laboratory ID:	08-360-24					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chloromethane	ND	0.0058	EPA 8260C	9-1-16	9-2-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromomethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chloroethane	ND	0.0058	EPA 8260C	9-1-16	9-2-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Iodomethane	ND	0.0058	EPA 8260C	9-1-16	9-2-16	
Methylene Chloride	ND	0.0058	EPA 8260C	9-1-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chloroform	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	9-1-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	



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 Laboratory Reference: 1608-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:40					
Laboratory ID:	08-360-24					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Tetrachloroethene	0.020	0.0012	EPA 8260C	9-1-16	9-2-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromoform	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	9-1-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:50					
Laboratory ID:	08-360-25					
Dichlorodifluoromethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Chloromethane	ND	0.0040	EPA 8260C	9-1-16	9-2-16	
Vinyl Chloride	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Bromomethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Chloroethane	ND	0.0040	EPA 8260C	9-1-16	9-2-16	
Trichlorofluoromethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Iodomethane	ND	0.0040	EPA 8260C	9-1-16	9-2-16	
Methylene Chloride	ND	0.0040	EPA 8260C	9-1-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloroethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
2,2-Dichloropropane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
(cis) 1,2-Dichloroethene	0.022	0.00080	EPA 8260C	9-1-16	9-2-16	
Bromochloromethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Chloroform	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Carbon Tetrachloride	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,1-Dichloropropene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloroethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Trichloroethene	0.057	0.00080	EPA 8260C	9-1-16	9-2-16	
1,2-Dichloropropane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Dibromomethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Bromodichloromethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	9-1-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:50					
Laboratory ID:	08-360-25					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Tetrachloroethene	13	0.091	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Dibromochloromethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromoethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Chlorobenzene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Bromoform	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Bromobenzene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
2-Chlorotoluene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
4-Chlorotoluene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	9-1-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	9-1-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260C	9-1-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:60					
Laboratory ID:	08-360-26					
Dichlorodifluoromethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0034	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0034	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0034	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0034	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	0.0014	0.00068	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D3:60					
Laboratory ID:	08-360-26					
1,1,2-Trichloroethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.014	0.00068	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0034	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00068	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</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:	MB0901S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0066	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	



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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:		MB0901S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</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:	MB0902S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



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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:		MB0902S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

**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:	SB0901S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0473	0.0464	0.0500	0.0500	95	93	68-126	2	15	
Benzene	0.0454	0.0463	0.0500	0.0500	91	93	70-121	2	15	
Trichloroethene	0.0471	0.0501	0.0500	0.0500	94	100	75-120	6	15	
Toluene	0.0483	0.0499	0.0500	0.0500	97	100	80-120	3	15	
Chlorobenzene	0.0502	0.0508	0.0500	0.0500	100	102	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>97</i>	<i>99</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>104</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>94</i>	<i>105</i>	<i>60-146</i>			



Date of Report: September 7, 2016
 Samples Submitted: August 29, 2016
 Laboratory Reference: 1608-360
 Project: 82302

**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:	SB0902S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0471	0.0473	0.0500	0.0500	94	95	68-126	0	15	
Benzene	0.0453	0.0475	0.0500	0.0500	91	95	70-121	5	15	
Trichloroethene	0.0477	0.0491	0.0500	0.0500	95	98	75-120	3	15	
Toluene	0.0484	0.0494	0.0500	0.0500	97	99	80-120	2	15	
Chlorobenzene	0.0495	0.0504	0.0500	0.0500	99	101	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>101</i>	<i>102</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>103</i>	<i>103</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>100</i>	<i>102</i>	<i>60-146</i>			



Date of Report: September 7, 2016
Samples Submitted: August 29, 2016
Laboratory Reference: 1608-360
Project: 82302

% MOISTURE

Date Analyzed: 8-30-16

Client ID	Lab ID	% Moisture
MW-27:2.5	08-360-01	5
MW-27:5	08-360-02	29
MW-28:2.5	08-360-08	14
MW-28:5	08-360-09	21
KSB-D3:3	08-360-17	9
KSB-D3:5	08-360-18	9
KSB-D3:10	08-360-19	17
KSB-D3:14	08-360-20	16
KSB-D3:20	08-360-21	17
KSB-D3:25	08-360-22	14
KSB-D3:28	08-360-23	14
KSB-D3:40	08-360-24	16
KSB-D3:50	08-360-25	10
KSB-D3:60	08-360-26	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





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

September 7, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-379

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 30, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 7, 2016
Samples Submitted: August 30, 2016
Laboratory Reference: 1608-379
Project: 82302

Case Narrative

Samples were collected on August 30, 2016 and received by the laboratory on August 30, 2016. 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: September 7, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-379
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:3					
Laboratory ID:	08-379-01					
Dichlorodifluoromethane	ND	0.0027	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0068	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0068	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0068	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0068	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0087	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:3					
Laboratory ID:	08-379-01					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	0.0025	0.0014	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-379
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:6					
Laboratory ID:	08-379-02					
Dichlorodifluoromethane	ND	0.0021	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0053	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0053	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0053	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0053	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	



Date of Report: September 7, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:6					
Laboratory ID:	08-379-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	0.086	0.0011	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-379
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:2.5					
Laboratory ID:	08-379-14					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0045	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0045	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0045	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0045	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:2.5					
Laboratory ID:	08-379-14					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	0.0010	0.00090	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:6					
Laboratory ID:	08-379-15					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	0.0036	0.00098	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	0.0020	0.00098	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:6					
Laboratory ID:	08-379-15					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	0.0022	0.00098	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-5					
Laboratory ID:	08-379-27					
Dichlorodifluoromethane	ND	0.0023	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0057	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0057	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0057	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0057	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-5					
Laboratory ID:	08-379-27					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	0.21	0.0011	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-9					
Laboratory ID:	08-379-28					
Dichlorodifluoromethane	ND	0.0025	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	0.0076	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	0.013	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0078	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-9					
Laboratory ID:	08-379-28					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	25	0.33	EPA 8260C	9-2-16	9-6-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-20					
Laboratory ID:	08-379-29					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.010	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-20					
Laboratory ID:	08-379-29					
1,1,2-Trichloroethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	0.0068	0.0017	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0017	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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 Laboratory Reference: 1608-379
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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:	MW-31-27					
Laboratory ID:	08-379-30					
Dichlorodifluoromethane	ND	0.0030	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0057	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0057	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0057	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0057	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	0.0013	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-27					
Laboratory ID:	08-379-30					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	1.7	0.057	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-30					
Laboratory ID:	08-379-31					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-30					
Laboratory ID:	08-379-31					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	0.0022	0.0013	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</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:	MW-31-40					
Laboratory ID:	08-379-32					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0083	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31-40					
Laboratory ID:	08-379-32					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	0.0022	0.0013	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0066	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</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:	MB0901S2					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	



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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:		MB0901S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-379
 Project: 82302

**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:	MB0902S2					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 7, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0902S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-379
 Project: 82302

**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:	MB0906S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0063	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0906S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-379
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0901S3									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0526	0.0488	0.0500	0.0500	105	98	68-126	7	15	
Benzene	0.0574	0.0538	0.0500	0.0500	115	108	70-121	6	15	
Trichloroethene	0.0509	0.0469	0.0500	0.0500	102	94	75-120	8	15	
Toluene	0.0565	0.0529	0.0500	0.0500	113	106	80-120	7	15	
Chlorobenzene	0.0497	0.0469	0.0500	0.0500	99	94	76-120	6	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	104	76-131			
Toluene-d8					101	105	80-126			
4-Bromofluorobenzene					97	100	60-146			



Date of Report: September 7, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-379
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0902S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0433	0.0458	0.0500	0.0500	87	92	68-126	6	15	
Benzene	0.0481	0.0516	0.0500	0.0500	96	103	70-121	7	15	
Trichloroethene	0.0463	0.0494	0.0500	0.0500	93	99	75-120	6	15	
Toluene	0.0494	0.0519	0.0500	0.0500	99	104	80-120	5	15	
Chlorobenzene	0.0444	0.0465	0.0500	0.0500	89	93	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>98</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>99</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>93</i>	<i>60-146</i>			



Date of Report: September 7, 2016
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 Project: 82302

**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:	SB0906S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0422	0.0456	0.0500	0.0500	84	91	68-126	8	15	
Benzene	0.0491	0.0515	0.0500	0.0500	98	103	70-121	5	15	
Trichloroethene	0.0468	0.0501	0.0500	0.0500	94	100	75-120	7	15	
Toluene	0.0500	0.0538	0.0500	0.0500	100	108	80-120	7	15	
Chlorobenzene	0.0458	0.0466	0.0500	0.0500	92	93	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>103</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>105</i>	<i>104</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>94</i>	<i>60-146</i>			



Date of Report: September 7, 2016
Samples Submitted: August 30, 2016
Laboratory Reference: 1608-379
Project: 82302

% MOISTURE

Date Analyzed: 8-31-16

Client ID	Lab ID	% Moisture
MW-29:3	08-379-01	9
MW-29:6	08-379-02	22
S-MW-4:2.5	08-379-14	16
S-MW-4:6	08-379-15	19
MW-31-5	08-379-27	3
MW-31-9	08-379-28	18
MW-31-20	08-379-29	13
MW-31-27	08-379-30	13
MW-31-30	08-379-31	19
MW-31-40	08-379-32	15





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)

Laboratory Number: **08-379**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

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)	X
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

Company: Kone Environmental
 Project Number: 82302
 Project Name: Bohler Service Center
 Project Manager: Sustin Vetter
 Sampled by: Sustin Vetter

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-29:3	20/8/30	0830	Soil	4
2	MW-29:6		0840		
3	MW-29:8		0850		
4	MW-29:11		0900		
5	MW-29:16		0910		
6	MW-29:21		0920		
7	MW-29:26		0930		
8	MW-29:31.5		0940		
9	MW-29:36		0945		
10	MW-29:41		0955		

Signature

[Handwritten Signature]

Company

Kans

Date

8/30/11

Time

1630

Comments/Special Instructions

0886

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)



OnSite Environmental Inc.
 Analytical Laboratory Testing Services
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 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-379**

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	

% Moisture

Company: Vane Environmental
 Project Number: 82302
 Project Name: Bothell Service Center
 Project Manager: Justin Vetter
 Sampled by: Justin Vetter

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
21	S-MW-4:30.5	8/30/16	1430	soil	4
22	S-MW-4:36		1435		
23	S-MW-4:41		1440		
24	S-MW-4:46		1450		
25	S-MW-4:51		1500		
26	S-MW-4:55		1515		

Signature	Company	Date	Time	Comments/Special Instructions
	<u>Vane</u>	<u>8/30/16</u>	<u>1:30</u>	
	<u>ONE</u>	<u>8/30/16</u>	<u>1630</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

September 7, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1608-404

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on August 31, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 7, 2016
Samples Submitted: August 31, 2016
Laboratory Reference: 1608-404
Project: 82302

Case Narrative

Samples were collected on August 31, 2016 and received by the laboratory on August 31, 2016. 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.



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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:	MW-32:2.5-4					
Laboratory ID:	08-404-01					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-32:2.5-4					
Laboratory ID:	08-404-01					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</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:	MW-32:5-6.5					
Laboratory ID:	08-404-02					
Dichlorodifluoromethane	ND	0.0037	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	0.0024	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-32:5-6.5					
Laboratory ID:	08-404-02					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.021	0.0014	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0072	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</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:	MW-32:30-31.5					
Laboratory ID:	08-404-08					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0038	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0038	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0038	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0038	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-32:30-31.5					
Laboratory ID:	08-404-08					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	0.0013	0.00076	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</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:	MW-31:50					
Laboratory ID:	08-404-10					
Dichlorodifluoromethane	ND	0.0024	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:50					
Laboratory ID:	08-404-10					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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 Laboratory Reference: 1608-404
 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:60					
Laboratory ID:	08-404-11					
Dichlorodifluoromethane	ND	0.0024	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0045	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0045	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0045	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0045	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:60					
Laboratory ID:	08-404-11					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:70					
Laboratory ID:	08-404-12					
Dichlorodifluoromethane	ND	0.0027	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:70					
Laboratory ID:	08-404-12					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:80					
Laboratory ID:	08-404-13					
Dichlorodifluoromethane	ND	0.0031	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0059	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0059	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0059	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0059	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:80					
Laboratory ID:	08-404-13					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:90					
Laboratory ID:	08-404-14					
Dichlorodifluoromethane	ND	0.0024	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:90					
Laboratory ID:	08-404-14					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00093	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.061	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.061	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.31	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.31	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.061	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>80</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 31, 2016
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 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:100					
Laboratory ID:	08-404-15					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0053	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0053	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0053	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0067	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:100					
Laboratory ID:	08-404-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	0.0014	0.0011	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>60-146</i>				



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**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:	MB0902S2					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



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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:		MB0902S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</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:	MB0906S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0063	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	



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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:		MB0906S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 7, 2016
 Samples Submitted: August 31, 2016
 Laboratory Reference: 1608-404
 Project: 82302

**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:	SB0902S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0433	0.0458	0.0500	0.0500	87	92	68-126	6	15	
Benzene	0.0481	0.0516	0.0500	0.0500	96	103	70-121	7	15	
Trichloroethene	0.0463	0.0494	0.0500	0.0500	93	99	75-120	6	15	
Toluene	0.0494	0.0519	0.0500	0.0500	99	104	80-120	5	15	
Chlorobenzene	0.0444	0.0465	0.0500	0.0500	89	93	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>98</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>99</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>93</i>	<i>60-146</i>			



Date of Report: September 7, 2016
 Samples Submitted: August 31, 2016
 Laboratory Reference: 1608-404
 Project: 82302

**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:	SB0906S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0422	0.0456	0.0500	0.0500	84	91	68-126	8	15	
Benzene	0.0491	0.0515	0.0500	0.0500	98	103	70-121	5	15	
Trichloroethene	0.0468	0.0501	0.0500	0.0500	94	100	75-120	7	15	
Toluene	0.0500	0.0538	0.0500	0.0500	100	108	80-120	7	15	
Chlorobenzene	0.0458	0.0466	0.0500	0.0500	92	93	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>103</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>105</i>	<i>104</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>94</i>	<i>60-146</i>			



Date of Report: September 7, 2016
Samples Submitted: August 31, 2016
Laboratory Reference: 1608-404
Project: 82302

% MOISTURE

Date Analyzed: 9-1-16

Client ID	Lab ID	% Moisture
MW-32:2.5-4	08-404-01	5
MW-32:5-6.5	08-404-02	19
MW-32:30-31.5	08-404-08	13
MW-31:50	08-404-10	11
MW-31:60	08-404-11	8
MW-31:70	08-404-12	10
MW-31:80	08-404-13	15
MW-31:90	08-404-14	15
MW-31:100	08-404-15	17





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





M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Fredmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Laboratory Number: **08-404**

Turnaround Request
 (in working days)
 (Check One)

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

Company: Kane Environmental
 Project Number: 82302
 Project Name: Botell Service Center
 Project Manager: Justin Vetter
 Sampled by: JV/JW/VA

Lab ID: _____ Sample Identification: _____ Date Sampled: 2016/9/31 Time Sampled: 10:15 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	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	MW-32:15-16.5 MW-32:2.5-4				4						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
2	MW-32:5-6.5				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
3	MW-32:7.5-9				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
4	MW-32:10-11.5				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
5	MW-32:15-16.5				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
6	MW-32:20-21.5				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
7	MW-32:25-26.5				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
8	MW-32:30-31.5				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>
9	MW-32:35-36.5				1						<input checked="" type="checkbox"/>													<input checked="" type="checkbox"/>

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Received		Kane	8/31/16	1700	
Relinquished		COE	8/31/16	1700	
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 8, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-016

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 1, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 8, 2016
Samples Submitted: September 1, 2016
Laboratory Reference: 1609-016
Project: 82302

Case Narrative

Samples were received by the laboratory on September 1, 2016. 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: September 8, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-016
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:5					
Laboratory ID:	09-016-02					
Dichlorodifluoromethane	ND	0.0041	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0077	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0077	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0077	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0097	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:5					
Laboratory ID:	09-016-02					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	0.0021	0.0015	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0077	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0077	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-016
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:7.5					
Laboratory ID:	09-016-03					
Dichlorodifluoromethane	ND	0.0038	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0071	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0071	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0071	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0090	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0071	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:7.5					
Laboratory ID:	09-016-03					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0071	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0071	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-016
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:10					
Laboratory ID:	09-016-13					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0052	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0052	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0052	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0076	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:10					
Laboratory ID:	09-016-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-016
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:16					
Laboratory ID:	09-016-14					
Dichlorodifluoromethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0044	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	0.014	0.00087	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0044	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	0.0014	0.00087	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0044	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0064	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	0.0022	0.00087	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	1.3	0.060	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	0.087	0.00087	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:16					
Laboratory ID:	09-016-14					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	2.3	0.060	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:20					
Laboratory ID:	09-016-15					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0054	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	0.0024	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0054	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0054	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0079	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	0.23	0.054	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	0.074	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:20					
Laboratory ID:	09-016-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	1.4	0.054	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:30					
Laboratory ID:	09-016-16					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0051	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0051	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0051	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0070	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:30					
Laboratory ID:	09-016-16					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:40					
Laboratory ID:	09-016-17					
Dichlorodifluoromethane	ND	0.0030	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0056	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0056	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0056	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0070	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:40					
Laboratory ID:	09-016-17					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	0.0015	0.0011	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:49					
Laboratory ID:	09-016-18					
Dichlorodifluoromethane	ND	0.0029	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0054	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0054	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0054	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0068	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:49					
Laboratory ID:	09-016-18					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:60					
Laboratory ID:	09-016-19					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0048	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0048	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0048	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0061	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	0.021	0.00096	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:60					
Laboratory ID:	09-016-19					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</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
Laboratory ID:	MB0906S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloromethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Iodomethane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
Methylene Chloride	ND	0.0073	EPA 8260C	9-6-16	9-6-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chloroform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0906S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromoform	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-6-16	9-6-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</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
Laboratory ID:	MB0907S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0068	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0907S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0907S2					
Dichlorodifluoromethane	ND	0.0027	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0063	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0907S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-016
 Project: 82302

**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:	SB0906S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0424	0.0436	0.0500	0.0500	85	87	68-126	3	15	
Benzene	0.0433	0.0439	0.0500	0.0500	87	88	70-121	1	15	
Trichloroethene	0.0472	0.0462	0.0500	0.0500	94	92	75-120	2	15	
Toluene	0.0463	0.0470	0.0500	0.0500	93	94	80-120	2	15	
Chlorobenzene	0.0478	0.0480	0.0500	0.0500	96	96	76-120	0	15	
<i>Surrogate:</i>										
Dibromofluoromethane					101	102	76-131			
Toluene-d8					100	100	80-126			
4-Bromofluorobenzene					102	102	60-146			



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-016
 Project: 82302

**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:	SB0907S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0442	0.0464	0.0500	0.0500	88	93	68-126	5	15	
Benzene	0.0457	0.0471	0.0500	0.0500	91	94	70-121	3	15	
Trichloroethene	0.0460	0.0480	0.0500	0.0500	92	96	75-120	4	15	
Toluene	0.0472	0.0492	0.0500	0.0500	94	98	80-120	4	15	
Chlorobenzene	0.0477	0.0481	0.0500	0.0500	95	96	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					103	97	76-131			
<i>Toluene-d8</i>					102	99	80-126			
<i>4-Bromofluorobenzene</i>					103	96	60-146			



Date of Report: September 8, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-016
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0907S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0404	0.0434	0.0500	0.0500	81	87	68-126	7	15	
Benzene	0.0473	0.0505	0.0500	0.0500	95	101	70-121	7	15	
Trichloroethene	0.0469	0.0499	0.0500	0.0500	94	100	75-120	6	15	
Toluene	0.0514	0.0533	0.0500	0.0500	103	107	80-120	4	15	
Chlorobenzene	0.0448	0.0458	0.0500	0.0500	90	92	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	94	76-131			
<i>Toluene-d8</i>					102	100	80-126			
<i>4-Bromofluorobenzene</i>					97	93	60-146			



Date of Report: September 8, 2016
Samples Submitted: September 1, 2016
Laboratory Reference: 1609-016
Project: 82302

% MOISTURE

Date Analyzed: 9-6-16

Client ID	Lab ID	% Moisture
MW-33:5	09-016-02	28
MW-33:7.5	09-016-03	15
MW-34:10	09-016-13	19
MW-34:16	09-016-14	18
MW-34:20	09-016-15	19
MW-34:30	09-016-16	20
MW-34:40	09-016-17	15
MW-34:49	09-016-18	12
MW-34:60	09-016-19	17





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

September 13, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-032

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 2, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 13, 2016
Samples Submitted: September 2, 2016
Laboratory Reference: 1609-032
Project: 82302

Case Narrative

Samples were collected on September 2, 2016 and received by the laboratory on September 2, 2016. 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: September 13, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-032
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:70					
Laboratory ID:	09-032-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0053	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0053	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0053	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0053	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	



Date of Report: September 13, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-032
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:70					
Laboratory ID:	09-032-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-032
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:5					
Laboratory ID:	09-032-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0060	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0060	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0060	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0060	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	



Date of Report: September 13, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-032
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:5					
Laboratory ID:	09-032-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-032
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:10					
Laboratory ID:	09-032-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0057	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0057	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0057	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0057	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:10					
Laboratory ID:	09-032-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:16					
Laboratory ID:	09-032-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0055	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0055	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0055	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0055	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	0.0091	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	0.016	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:16					
Laboratory ID:	09-032-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	1.5	0.059	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:20					
Laboratory ID:	09-032-05					
Dichlorodifluoromethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0044	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0044	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0044	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0044	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	0.010	0.00087	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	0.017	0.00087	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:20					
Laboratory ID:	09-032-05					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	0.86	0.054	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:30					
Laboratory ID:	09-032-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0053	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0053	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0053	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0053	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	

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Date**Date**

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Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-35:30					
Laboratory ID:	09-032-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	0.0022	0.0011	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:40					
Laboratory ID:	09-032-07					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:40					
Laboratory ID:	09-032-07					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	0.0030	0.00095	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:50					
Laboratory ID:	09-032-08					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0049	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0049	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0049	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0049	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:50					
Laboratory ID:	09-032-08					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:55					
Laboratory ID:	09-032-09					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:55					
Laboratory ID:	09-032-09					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</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
Laboratory ID:	MB0908S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0908S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</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:	MB0909S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0909S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-032
 Project: 82302

**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:	SB0908S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0437	0.0447	0.0500	0.0500	87	89	68-126	2	15	
Benzene	0.0438	0.0459	0.0500	0.0500	88	92	70-121	5	15	
Trichloroethene	0.0452	0.0475	0.0500	0.0500	90	95	75-120	5	15	
Toluene	0.0456	0.0478	0.0500	0.0500	91	96	80-120	5	15	
Chlorobenzene	0.0459	0.0479	0.0500	0.0500	92	96	76-120	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					106	111	76-131			
Toluene-d8					103	106	80-126			
4-Bromofluorobenzene					100	103	60-146			



Date of Report: September 13, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-032
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0909S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0403	0.0417	0.0500	0.0500	81	83	68-126	3	15	
Benzene	0.0432	0.0453	0.0500	0.0500	86	91	70-121	5	15	
Trichloroethene	0.0475	0.0495	0.0500	0.0500	95	99	75-120	4	15	
Toluene	0.0471	0.0488	0.0500	0.0500	94	98	80-120	4	15	
Chlorobenzene	0.0479	0.0486	0.0500	0.0500	96	97	76-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					96	103	76-131			
Toluene-d8					98	103	80-126			
4-Bromofluorobenzene					96	98	60-146			



Date of Report: September 13, 2016
Samples Submitted: September 2, 2016
Laboratory Reference: 1609-032
Project: 82302

% MOISTURE

Date Analyzed: 9-7-16

Client ID	Lab ID	% Moisture
MW-34:70	09-032-01	18
MW-35:5	09-032-02	18
MW-35:10	09-032-03	22
MW-35:16	09-032-04	15
MW-35:20	09-032-05	16
MW-35:30	09-032-06	14
MW-35:40	09-032-07	15
MW-35:50	09-032-08	8
MW-35:55	09-032-09	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





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

September 12, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-043

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 6, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 12, 2016
Samples Submitted: September 6, 2016
Laboratory Reference: 1609-043
Project: 82302

Case Narrative

Samples were collected on September 6, 2016 and received by the laboratory on September 6, 2016. 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: September 12, 2016
 Samples Submitted: September 6, 2016
 Laboratory Reference: 1609-043
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:60					
Laboratory ID:	09-043-01					
Dichlorodifluoromethane	ND	0.0032	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0059	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0059	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0059	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0094	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	



Date of Report: September 12, 2016
 Samples Submitted: September 6, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:60					
Laboratory ID:	09-043-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



Date of Report: September 12, 2016
 Samples Submitted: September 6, 2016
 Laboratory Reference: 1609-043
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:65					
Laboratory ID:	09-043-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Chloromethane	ND	0.0057	EPA 8260C	9-7-16	9-8-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Bromomethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Chloroethane	ND	0.0057	EPA 8260C	9-7-16	9-8-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Iodomethane	ND	0.0057	EPA 8260C	9-7-16	9-8-16	
Methylene Chloride	ND	0.0091	EPA 8260C	9-7-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Chloroform	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	9-7-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	



Date of Report: September 12, 2016
 Samples Submitted: September 6, 2016
 Laboratory Reference: 1609-043
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:65					
Laboratory ID:	09-043-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Bromoform	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	9-7-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	9-7-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-7-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</i>				



Date of Report: September 12, 2016
 Samples Submitted: September 6, 2016
 Laboratory Reference: 1609-043
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:68					
Laboratory ID:	09-043-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0059	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0059	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0059	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0094	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	



Date of Report: September 12, 2016
 Samples Submitted: September 6, 2016
 Laboratory Reference: 1609-043
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:68					
Laboratory ID:	09-043-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	0.0017	0.0012	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</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:	MW-35:77					
Laboratory ID:	09-043-04					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Chloromethane	ND	0.0058	EPA 8260C	9-7-16	9-8-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Bromomethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Chloroethane	ND	0.0058	EPA 8260C	9-7-16	9-8-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Iodomethane	ND	0.0058	EPA 8260C	9-7-16	9-8-16	
Methylene Chloride	ND	0.0093	EPA 8260C	9-7-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Chloroform	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	9-7-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:77					
Laboratory ID:	09-043-04					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Bromoform	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	9-7-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	9-7-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-7-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</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:	MB0907S2					
Dichlorodifluoromethane	ND	0.0027	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0080	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0907S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</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:	MB0908S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0080	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	



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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:		MB0908S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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 Project: 82302

**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:	SB0907S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0404	0.0434	0.0500	0.0500	81	87	68-126	7	15	
Benzene	0.0473	0.0505	0.0500	0.0500	95	101	70-121	7	15	
Trichloroethene	0.0469	0.0499	0.0500	0.0500	94	100	75-120	6	15	
Toluene	0.0514	0.0533	0.0500	0.0500	103	107	80-120	4	15	
Chlorobenzene	0.0448	0.0458	0.0500	0.0500	90	92	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	94	76-131			
<i>Toluene-d8</i>					102	100	80-126			
<i>4-Bromofluorobenzene</i>					97	93	60-146			



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**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:	SB0908S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0437	0.0447	0.0500	0.0500	87	89	68-126	2	15	
Benzene	0.0438	0.0459	0.0500	0.0500	88	92	70-121	5	15	
Trichloroethene	0.0452	0.0475	0.0500	0.0500	90	95	75-120	5	15	
Toluene	0.0456	0.0478	0.0500	0.0500	91	96	80-120	5	15	
Chlorobenzene	0.0459	0.0479	0.0500	0.0500	92	96	76-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	111	76-131			
<i>Toluene-d8</i>					103	106	80-126			
<i>4-Bromofluorobenzene</i>					100	103	60-146			



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% MOISTURE

Date Analyzed: 9-7-16

Client ID	Lab ID	% Moisture
MW-35:60	09-043-01	13
MW-35:65	09-043-02	12
MW-35:68	09-043-03	7
MW-35:77	09-043-04	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

September 13, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-068

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 7, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 13, 2016
Samples Submitted: September 7, 2016
Laboratory Reference: 1609-068
Project: 82302

Case Narrative

Samples were collected on September 7, 2016 and received by the laboratory on September 7, 2016. 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: September 13, 2016
 Samples Submitted: September 7, 2016
 Laboratory Reference: 1609-068
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:10					
Laboratory ID:	09-068-01					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0079	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:10					
Laboratory ID:	09-068-01					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	0.020	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



Date of Report: September 13, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:20					
Laboratory ID:	09-068-02					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:20					
Laboratory ID:	09-068-02					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 13, 2016
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HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:30					
Laboratory ID:	09-068-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0055	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0055	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0055	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0055	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:30					
Laboratory ID:	09-068-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
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 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:40					
Laboratory ID:	09-068-04					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0060	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0060	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0060	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0060	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
 Laboratory Reference: 1609-068
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:40					
Laboratory ID:	09-068-04					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
 Laboratory Reference: 1609-068
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:50					
Laboratory ID:	09-068-05					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0065	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0065	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0065	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0065	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroform	0.0016	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0082	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
 Laboratory Reference: 1609-068
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-D4:50					
Laboratory ID:	09-068-05					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0065	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
 Laboratory Reference: 1609-068
 Project: 82302

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:	MB0909S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
 Laboratory Reference: 1609-068
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0909S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 7, 2016
 Laboratory Reference: 1609-068
 Project: 82302

**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:	SB0909S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0403	0.0417	0.0500	0.0500	81	83	68-126	3	15	
Benzene	0.0432	0.0453	0.0500	0.0500	86	91	70-121	5	15	
Trichloroethene	0.0475	0.0495	0.0500	0.0500	95	99	75-120	4	15	
Toluene	0.0471	0.0488	0.0500	0.0500	94	98	80-120	4	15	
Chlorobenzene	0.0479	0.0486	0.0500	0.0500	96	97	76-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					96	103	76-131			
Toluene-d8					98	103	80-126			
4-Bromofluorobenzene					96	98	60-146			



Date of Report: September 13, 2016
Samples Submitted: September 7, 2016
Laboratory Reference: 1609-068
Project: 82302

% MOISTURE

Date Analyzed: 9-9-16

Client ID	Lab ID	% Moisture
KSB-D4:10	09-068-01	24
KSB-D4:20	09-068-02	19
KSB-D4:30	09-068-03	15
KSB-D4:40	09-068-04	17
KSB-D4:50	09-068-05	17





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





M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-9881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **09-068**

Company: Kare Env
 Project Number:
 Project Name: Barnes Sewage Tr
 Project Manager: J. Vester
 Sampled by: Arkus

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	KSD-D4:10	9/7/16	1025	S	9
2	KSD-D4:20		1045	L	
3	KSD-D4:30		1100	L	
4	KSD-D4:40		1120	L	
5	KSD-D4:50		1230	L	

Analysis	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
	Kare Env	9/7/16	1535	
	OS&E	9/7/16	1535	

Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 15, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project Bothell Service Center; 82302
Laboratory Reference No. 1609-097

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 9, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 15, 2016
Samples Submitted: September 9, 2016
Laboratory Reference: 1609-097
Project: Bothell Service Center; 82302

Case Narrative

Samples were collected on September 8 and 9, 2016 and received by the laboratory on September 9, 2016. 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: September 15, 2016
 Samples Submitted: September 9, 2016
 Laboratory Reference: 1609-097
 Project: Bothell Service Center; 82302

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:7					
Laboratory ID:	09-097-01					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0053	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0053	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0053	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0053	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	0.0025	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	



Date of Report: September 15, 2016
 Samples Submitted: September 9, 2016
 Laboratory Reference: 1609-097
 Project: Bothell Service Center; 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:7					
Laboratory ID:	09-097-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	0.0012	0.0011	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



Date of Report: September 15, 2016
 Samples Submitted: September 9, 2016
 Laboratory Reference: 1609-097
 Project: Bothell Service Center; 82302

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:10					
Laboratory ID:	09-097-02					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	0.034	0.00099	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	0.039	0.00099	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:10					
Laboratory ID:	09-097-02					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	0.56	0.060	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 15, 2016
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 Project: Bothell Service Center; 82302

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:15.5					
Laboratory ID:	09-097-03					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0049	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	0.0054	0.00098	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0049	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0049	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0049	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	0.060	0.00098	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	0.027	0.00098	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:15.5					
Laboratory ID:	09-097-03					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	18	0.29	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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 Laboratory Reference: 1609-097
 Project: Bothell Service Center; 82302

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-37:7.5					
Laboratory ID:	09-097-08					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	9-12-16	9-13-16	
Chloromethane	ND	0.0058	EPA 8260C	9-12-16	9-13-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Bromomethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Chloroethane	ND	0.0058	EPA 8260C	9-12-16	9-13-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Iodomethane	ND	0.0058	EPA 8260C	9-12-16	9-13-16	
Methylene Chloride	ND	0.0077	EPA 8260C	9-12-16	9-13-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
(cis) 1,2-Dichloroethene	0.0046	0.0012	EPA 8260C	9-12-16	9-13-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Chloroform	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Trichloroethene	0.0095	0.0012	EPA 8260C	9-12-16	9-13-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	9-12-16	9-13-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-37:7.5					
Laboratory ID:	09-097-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Tetrachloroethene	0.047	0.0012	EPA 8260C	9-12-16	9-13-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Bromoform	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	9-12-16	9-13-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	9-12-16	9-13-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-12-16	9-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</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:	MW-37:10					
Laboratory ID:	09-097-09					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	9-14-16	9-14-16	
Chloromethane	ND	0.0063	EPA 8260C	9-14-16	9-14-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromomethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Chloroethane	ND	0.0063	EPA 8260C	9-14-16	9-14-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Iodomethane	ND	0.0063	EPA 8260C	9-14-16	9-14-16	
Methylene Chloride	ND	0.0063	EPA 8260C	9-14-16	9-14-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
(cis) 1,2-Dichloroethene	0.0047	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Chloroform	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Trichloroethene	0.020	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-14-16	9-14-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-37:10					
Laboratory ID:	09-097-09					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Tetrachloroethene	0.11	0.0013	EPA 8260C	9-14-16	9-14-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromoform	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	9-14-16	9-14-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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 Laboratory Reference: 1609-097
 Project: Bothell Service Center; 82302

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:6.5					
Laboratory ID:	09-097-10					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	9-14-16	9-14-16	
Chloromethane	ND	0.0055	EPA 8260C	9-14-16	9-14-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Bromomethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Chloroethane	ND	0.0055	EPA 8260C	9-14-16	9-14-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Iodomethane	ND	0.0055	EPA 8260C	9-14-16	9-14-16	
Methylene Chloride	ND	0.0055	EPA 8260C	9-14-16	9-14-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Chloroform	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	9-14-16	9-14-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:6.5					
Laboratory ID:	09-097-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Tetrachloroethene	0.0024	0.0011	EPA 8260C	9-14-16	9-14-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Bromoform	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	9-14-16	9-14-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-14-16	9-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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 Project: Bothell Service Center; 82302

HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:12.5					
Laboratory ID:	09-097-11					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-12-16	9-13-16	
Chloromethane	ND	0.0050	EPA 8260C	9-12-16	9-13-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Bromomethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Chloroethane	ND	0.0050	EPA 8260C	9-12-16	9-13-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Iodomethane	ND	0.0050	EPA 8260C	9-12-16	9-13-16	
Methylene Chloride	ND	0.0066	EPA 8260C	9-12-16	9-13-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Chloroform	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-12-16	9-13-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:12.5					
Laboratory ID:	09-097-11					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Tetrachloroethene	0.0084	0.0010	EPA 8260C	9-12-16	9-13-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Bromoform	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-12-16	9-13-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-12-16	9-13-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</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:	MB0912S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0912S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



Date of Report: September 15, 2016
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 Project: Bothell Service Center; 82302

**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:	MB0914S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-14-16	9-14-16	
Chloromethane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromomethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Chloroethane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Iodomethane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Chloroform	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	



Date of Report: September 15, 2016
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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0914S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromoform	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 15, 2016
 Samples Submitted: September 9, 2016
 Laboratory Reference: 1609-097
 Project: Bothell Service Center; 82302

**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:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0415	0.0406	0.0500	0.0500	83	81	68-126	2	15	
Benzene	0.0446	0.0452	0.0500	0.0500	89	90	70-121	1	15	
Trichloroethene	0.0465	0.0474	0.0500	0.0500	93	95	75-120	2	15	
Toluene	0.0471	0.0479	0.0500	0.0500	94	96	80-120	2	15	
Chlorobenzene	0.0463	0.0467	0.0500	0.0500	93	93	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>107</i>	<i>108</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>106</i>	<i>104</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>104</i>	<i>103</i>	<i>60-146</i>			



Date of Report: September 15, 2016
 Samples Submitted: September 9, 2016
 Laboratory Reference: 1609-097
 Project: Bothell Service Center; 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD		Flags
					SB	SBD	SB	SBD	RPD	Limit	
SPIKE BLANKS											
Laboratory ID:	SB0914S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0405	0.0425	0.0500	0.0500	81	85	68-126	5	15		
Benzene	0.0451	0.0457	0.0500	0.0500	90	91	70-121	1	15		
Trichloroethene	0.0488	0.0500	0.0500	0.0500	98	100	75-120	2	15		
Toluene	0.0495	0.0500	0.0500	0.0500	99	100	80-120	1	15		
Chlorobenzene	0.0490	0.0484	0.0500	0.0500	98	97	76-120	1	15		
<i>Surrogate:</i>											
Dibromofluoromethane					111	104	76-131				
Toluene-d8					110	105	80-126				
4-Bromofluorobenzene					106	102	60-146				



Date of Report: September 15, 2016
Samples Submitted: September 9, 2016
Laboratory Reference: 1609-097
Project: Bothell Service Center; 82302

% MOISTURE

Date Analyzed: 9-9-16

Client ID	Lab ID	% Moisture
MW-36:7	09-097-01	22
MW-36:10	09-097-02	18
MW-36:15.5	09-097-03	16
MW-37:7.5	09-097-08	23
MW-37:10	09-097-09	19
MW-10R:6.5	09-097-10	4
MW-10R:12.5	09-097-11	14





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

September 15, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-122

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 12, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 15, 2016
Samples Submitted: September 12, 2016
Laboratory Reference: 1609-122
Project: 82302

Case Narrative

Samples were collected on September 12, 2016 and received by the laboratory on September 12, 2016. 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: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:6					
Laboratory ID:	09-122-01					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	9-13-16	9-13-16	
Chloromethane	ND	0.0061	EPA 8260C	9-13-16	9-13-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Bromomethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Chloroethane	ND	0.0061	EPA 8260C	9-13-16	9-13-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Iodomethane	ND	0.0061	EPA 8260C	9-13-16	9-13-16	
Methylene Chloride	ND	0.0081	EPA 8260C	9-13-16	9-13-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Chloroform	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	9-13-16	9-13-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	



Date of Report: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:6					
Laboratory ID:	09-122-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Tetrachloroethene	0.0048	0.0012	EPA 8260C	9-13-16	9-13-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Bromoform	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	9-13-16	9-13-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:15					
Laboratory ID:	09-122-03					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	9-13-16	9-13-16	
Chloromethane	ND	0.0057	EPA 8260C	9-13-16	9-13-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromomethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Chloroethane	ND	0.0057	EPA 8260C	9-13-16	9-13-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Iodomethane	ND	0.0057	EPA 8260C	9-13-16	9-13-16	
Methylene Chloride	ND	0.0076	EPA 8260C	9-13-16	9-13-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
(cis) 1,2-Dichloroethene	0.0031	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Chloroform	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Trichloroethene	0.021	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	9-13-16	9-13-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	



Date of Report: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:15					
Laboratory ID:	09-122-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Tetrachloroethene	9.2	0.36	EPA 8260C	9-14-16	9-14-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromoform	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	9-13-16	9-13-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



Date of Report: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:30					
Laboratory ID:	09-122-05					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	9-14-16	9-14-16	
Chloromethane	ND	0.0066	EPA 8260C	9-14-16	9-14-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromomethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Chloroethane	ND	0.0066	EPA 8260C	9-14-16	9-14-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Iodomethane	ND	0.0066	EPA 8260C	9-14-16	9-14-16	
Methylene Chloride	ND	0.0066	EPA 8260C	9-14-16	9-14-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Chloroform	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	9-14-16	9-14-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	



Date of Report: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:30					
Laboratory ID:	09-122-05					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromoform	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	9-14-16	9-14-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
Hexachlorobutadiene	ND	0.0066	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-14-16	9-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:46					
Laboratory ID:	09-122-07					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-14-16	9-14-16	
Chloromethane	ND	0.0048	EPA 8260C	9-14-16	9-14-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Bromomethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Chloroethane	ND	0.0048	EPA 8260C	9-14-16	9-14-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Iodomethane	ND	0.0048	EPA 8260C	9-14-16	9-14-16	
Methylene Chloride	ND	0.0048	EPA 8260C	9-14-16	9-14-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Bromochloromethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Chloroform	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Trichloroethene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Dibromomethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	9-14-16	9-14-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:46					
Laboratory ID:	09-122-07					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Chlorobenzene	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Bromoform	ND	0.00097	EPA 8260C	9-14-16	9-14-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	9-13-16	9-13-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-13-16	9-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:55					
Laboratory ID:	09-122-08					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	9-13-16	9-13-16	
Chloromethane	ND	0.0054	EPA 8260C	9-13-16	9-13-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromomethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Chloroethane	ND	0.0054	EPA 8260C	9-13-16	9-13-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Iodomethane	ND	0.0054	EPA 8260C	9-13-16	9-13-16	
Methylene Chloride	ND	0.0072	EPA 8260C	9-13-16	9-13-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Chloroform	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	9-13-16	9-13-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:55					
Laboratory ID:	09-122-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Tetrachloroethene	0.0013	0.0011	EPA 8260C	9-13-16	9-13-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromoform	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	9-13-16	9-13-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-13-16	9-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0913S2						
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-13-16	9-13-16	
Chloromethane	ND	0.0050	EPA 8260C	9-13-16	9-13-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Bromomethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Chloroethane	ND	0.0050	EPA 8260C	9-13-16	9-13-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Iodomethane	ND	0.0050	EPA 8260C	9-13-16	9-13-16	
Methylene Chloride	ND	0.0066	EPA 8260C	9-13-16	9-13-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Chloroform	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-13-16	9-13-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0913S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Bromoform	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-13-16	9-13-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-13-16	9-13-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-13-16	9-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0914S1						
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-14-16	9-14-16	
Chloromethane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromomethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Chloroethane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Iodomethane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Chloroform	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0914S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromoform	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-14-16	9-14-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-14-16	9-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

**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:	SB0913S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0412	0.0437	0.0500	0.0500	82	87	68-126	6	15	
Benzene	0.0443	0.0476	0.0500	0.0500	89	95	70-121	7	15	
Trichloroethene	0.0448	0.0486	0.0500	0.0500	90	97	75-120	8	15	
Toluene	0.0457	0.0500	0.0500	0.0500	91	100	80-120	9	15	
Chlorobenzene	0.0463	0.0490	0.0500	0.0500	93	98	76-120	6	15	
<i>Surrogate:</i>										
Dibromofluoromethane					103	111	76-131			
Toluene-d8					98	109	80-126			
4-Bromofluorobenzene					100	108	60-146			



Date of Report: September 15, 2016
 Samples Submitted: September 12, 2016
 Laboratory Reference: 1609-122
 Project: 82302

**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:	SB0914S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0405	0.0425	0.0500	0.0500	81	85	68-126	5	15	
Benzene	0.0451	0.0457	0.0500	0.0500	90	91	70-121	1	15	
Trichloroethene	0.0488	0.0500	0.0500	0.0500	98	100	75-120	2	15	
Toluene	0.0495	0.0500	0.0500	0.0500	99	100	80-120	1	15	
Chlorobenzene	0.0490	0.0484	0.0500	0.0500	98	97	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>111</i>	<i>104</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>110</i>	<i>105</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>106</i>	<i>102</i>	<i>60-146</i>			



Date of Report: September 15, 2016
Samples Submitted: September 12, 2016
Laboratory Reference: 1609-122
Project: 82302

% MOISTURE

Date Analyzed: 9-13-16

Client ID	Lab ID	% Moisture
MW-38:6	09-122-01	20
MW-38:15	09-122-03	21
MW-38:30	09-122-05	22
MW-38:46	09-122-07	17
MW-38:55	09-122-08	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





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)

Laboratory Number: **09-122**

Company: KANS ENV
 Project Number:

Project Name:
 Project Manager: Sam. CTR

Sampled by: J. Venter
V. Arzoo

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

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	<u>HVOCs</u>
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
1	MW-3826	9/12/16	9:55	S
2	MW-38110			
3	MW-38115			
4	MW-38220			
5	MW-38130			
6	MW-38140			
7	MW-38146			
8	MW-38155			

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished

KANS ENV

9/12/16 16:47
 9/12/16 16:47

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 20, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-208

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 16, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 20, 2016
Samples Submitted: September 16, 2016
Laboratory Reference: 1609-208
Project: 82302

Case Narrative

Samples were collected on September 15, 2016 and received by the laboratory on September 16, 2016. 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: September 20, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-208
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:6					
Laboratory ID:	09-208-01					
Dichlorodifluoromethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Chloromethane	ND	0.0043	EPA 8260C	9-19-16	9-19-16	
Vinyl Chloride	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Bromomethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Chloroethane	ND	0.0043	EPA 8260C	9-19-16	9-19-16	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Iodomethane	ND	0.0043	EPA 8260C	9-19-16	9-19-16	
Methylene Chloride	ND	0.0057	EPA 8260C	9-19-16	9-19-16	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Bromochloromethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Chloroform	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Trichloroethene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Dibromomethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Bromodichloromethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	9-19-16	9-19-16	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	



Date of Report: September 20, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-208
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:6					
Laboratory ID:	09-208-01					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Tetrachloroethene	0.0021	0.00086	EPA 8260C	9-19-16	9-19-16	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Dibromochloromethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Chlorobenzene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Bromoform	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Bromobenzene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-19-16	9-19-16	
2-Chlorotoluene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
4-Chlorotoluene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	9-19-16	9-19-16	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	9-19-16	9-19-16	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	9-19-16	9-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 20, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-208
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:10					
Laboratory ID:	09-208-02					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Chloromethane	ND	0.0066	EPA 8260C	9-19-16	9-19-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Bromomethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Chloroethane	ND	0.0066	EPA 8260C	9-19-16	9-19-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Iodomethane	ND	0.0066	EPA 8260C	9-19-16	9-19-16	
Methylene Chloride	ND	0.0088	EPA 8260C	9-19-16	9-19-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Chloroform	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0089	EPA 8260C	9-19-16	9-19-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	



Date of Report: September 20, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-208
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:10					
Laboratory ID:	09-208-02					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Tetrachloroethene	0.022	0.0013	EPA 8260C	9-19-16	9-19-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Bromoform	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260C	9-19-16	9-19-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	9-19-16	9-19-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
Hexachlorobutadiene	ND	0.0086	EPA 8260C	9-19-16	9-19-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



Date of Report: September 20, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-208
 Project: 82302

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:	MB0919S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Chloromethane	ND	0.0050	EPA 8260C	9-19-16	9-19-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Bromomethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Chloroethane	ND	0.0050	EPA 8260C	9-19-16	9-19-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Iodomethane	ND	0.0050	EPA 8260C	9-19-16	9-19-16	
Methylene Chloride	ND	0.0066	EPA 8260C	9-19-16	9-19-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Chloroform	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	9-19-16	9-19-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	



Date of Report: September 20, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-208
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0919S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Bromoform	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-19-16	9-19-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-19-16	9-19-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
Hexachlorobutadiene	ND	0.0065	EPA 8260C	9-19-16	9-19-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-19-16	9-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 20, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-208
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0919S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0560	0.0547	0.0500	0.0500	112	109	68-126	2	15	
Benzene	0.0503	0.0501	0.0500	0.0500	101	100	70-121	0	15	
Trichloroethene	0.0525	0.0541	0.0500	0.0500	105	108	75-120	3	15	
Toluene	0.0513	0.0535	0.0500	0.0500	103	107	80-120	4	15	
Chlorobenzene	0.0480	0.0508	0.0500	0.0500	96	102	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>108</i>	<i>108</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>105</i>	<i>109</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>102</i>	<i>60-146</i>			



Date of Report: September 20, 2016
Samples Submitted: September 16, 2016
Laboratory Reference: 1609-208
Project: 82302

% MOISTURE

Date Analyzed: 9-19-16

Client ID	Lab ID	% Moisture
MW-10R:6	09-208-01	6
MW-10R:10	09-208-02	17





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

October 24, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-202

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 19, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 24, 2016
Samples Submitted: October 19, 2016
Laboratory Reference: 1610-202
Project: 82302

Case Narrative

Samples were collected on October 19, 2016 and received by the laboratory on October 19, 2016. 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: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-21:2.5ft					
Laboratory ID:	10-202-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Chloromethane	ND	0.0054	EPA 8260C	10-21-16	10-21-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Bromomethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Chloroethane	ND	0.0054	EPA 8260C	10-21-16	10-21-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Iodomethane	ND	0.0054	EPA 8260C	10-21-16	10-21-16	
Methylene Chloride	ND	0.0076	EPA 8260C	10-21-16	10-21-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Chloroform	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Trichloroethene	0.0016	0.0011	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	10-21-16	10-21-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-21:2.5ft					
Laboratory ID:	10-202-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Tetrachloroethene	0.018	0.0011	EPA 8260C	10-21-16	10-21-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Bromoform	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-21-16	10-21-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-21-16	10-21-16	
<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>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-21:7.5ft					
Laboratory ID:	10-202-02					
Dichlorodifluoromethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Chloromethane	ND	0.37	EPA 8260C	10-21-16	10-21-16	
Vinyl Chloride	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Bromomethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Chloroethane	ND	0.37	EPA 8260C	10-21-16	10-21-16	
Trichlorofluoromethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Iodomethane	ND	0.37	EPA 8260C	10-21-16	10-21-16	
Methylene Chloride	ND	0.52	EPA 8260C	10-21-16	10-21-16	
(trans) 1,2-Dichloroethene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
2,2-Dichloropropane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
(cis) 1,2-Dichloroethene	0.36	0.075	EPA 8260C	10-21-16	10-21-16	
Bromochloromethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Chloroform	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,1,1-Trichloroethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Carbon Tetrachloride	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloropropene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloroethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Trichloroethene	0.71	0.075	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloropropane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Dibromomethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Bromodichloromethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
2-Chloroethyl Vinyl Ether	ND	0.37	EPA 8260C	10-21-16	10-21-16	
(cis) 1,3-Dichloropropene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
(trans) 1,3-Dichloropropene	ND	0.075	EPA 8260C	10-21-16	10-21-16	



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-21:7.5ft					
Laboratory ID:	10-202-02					
1,1,2-Trichloroethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Tetrachloroethene	32	0.37	EPA 8260C	10-21-16	10-22-16	
1,3-Dichloropropane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Dibromochloromethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromoethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Chlorobenzene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,1,1,2-Tetrachloroethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Bromoform	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Bromobenzene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,1,2,2-Tetrachloroethane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichloropropane	ND	0.075	EPA 8260C	10-21-16	10-21-16	
2-Chlorotoluene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
4-Chlorotoluene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,3-Dichlorobenzene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,4-Dichlorobenzene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,2-Dichlorobenzene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromo-3-chloropropane	ND	0.37	EPA 8260C	10-21-16	10-21-16	
1,2,4-Trichlorobenzene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
Hexachlorobutadiene	ND	0.37	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichlorobenzene	ND	0.075	EPA 8260C	10-21-16	10-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-22:2.5ft					
Laboratory ID:	10-202-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Chloromethane	ND	0.0064	EPA 8260C	10-21-16	10-21-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Bromomethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Chloroethane	ND	0.0064	EPA 8260C	10-21-16	10-21-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Iodomethane	ND	0.0064	EPA 8260C	10-21-16	10-21-16	
Methylene Chloride	ND	0.0089	EPA 8260C	10-21-16	10-21-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Bromochloromethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Chloroform	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Trichloroethene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Dibromomethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	10-21-16	10-21-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-22:2.5ft					
Laboratory ID:	10-202-03					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Tetrachloroethene	0.0081	0.0013	EPA 8260C	10-21-16	10-21-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Chlorobenzene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Bromoform	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Bromobenzene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	10-21-16	10-21-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	10-21-16	10-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-22:7ft					
Laboratory ID:	10-202-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0078	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-22:7ft					
Laboratory ID:	10-202-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	0.0022	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-23:2ft					
Laboratory ID:	10-202-05					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.0085	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0057	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0057	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0079	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-23:2ft					
Laboratory ID:	10-202-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	0.0053	0.0011	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
<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>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-23:7.5ft					
Laboratory ID:	10-202-06					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0077	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0077	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0077	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.011	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-23:7.5ft					
Laboratory ID:	10-202-06					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	0.023	0.0015	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0077	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0077	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	10-22-16	10-22-16	
<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>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</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:	KSB-24:2.5ft					
Laboratory ID:	10-202-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0078	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-24:2.5ft					
Laboratory ID:	10-202-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	0.0031	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
<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>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-131</i>				



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 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-24:7ft					
Laboratory ID:	10-202-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0054	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0054	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0054	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0076	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-24:7ft					
Laboratory ID:	10-202-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
<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>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:	KSB-25:2ft					
Laboratory ID:	10-202-09					
Dichlorodifluoromethane	0.0069	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0053	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0053	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0053	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0074	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-25:2ft					
Laboratory ID:	10-202-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-25:7.25ft					
Laboratory ID:	10-202-10					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0055	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0055	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0055	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0077	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-25:7.25ft					
Laboratory ID:	10-202-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	73-134				
<i>Toluene-d8</i>	94	81-124				
<i>4-Bromofluorobenzene</i>	92	80-131				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-26:2ft					
Laboratory ID:	10-202-11					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0057	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0057	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0057	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0080	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-26:2ft					
Laboratory ID:	10-202-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-22-16	10-22-16	
<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>105</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:	KSB-26:7ft					
Laboratory ID:	10-202-12					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0052	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0052	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0052	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0073	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-26:7ft					
Laboratory ID:	10-202-12					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>98</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:	KSB-26:6ft					
Laboratory ID:	10-202-13					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-26:6ft					
Laboratory ID:	10-202-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
<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>105</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:	KSB-26:15ft					
Laboratory ID:	10-202-14					
Dichlorodifluoromethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Chloromethane	ND	0.28	EPA 8260C	10-21-16	10-23-16	
Vinyl Chloride	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Bromomethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Chloroethane	ND	0.28	EPA 8260C	10-21-16	10-23-16	
Trichlorofluoromethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,1-Dichloroethene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Iodomethane	ND	0.28	EPA 8260C	10-21-16	10-23-16	
Methylene Chloride	ND	0.40	EPA 8260C	10-21-16	10-23-16	
(trans) 1,2-Dichloroethene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,1-Dichloroethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
2,2-Dichloropropane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
(cis) 1,2-Dichloroethene	0.42	0.057	EPA 8260C	10-21-16	10-23-16	
Bromochloromethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Chloroform	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,1,1-Trichloroethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Carbon Tetrachloride	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,1-Dichloropropene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,2-Dichloroethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Trichloroethene	0.48	0.057	EPA 8260C	10-21-16	10-23-16	
1,2-Dichloropropane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Dibromomethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Bromodichloromethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
2-Chloroethyl Vinyl Ether	ND	0.28	EPA 8260C	10-21-16	10-23-16	
(cis) 1,3-Dichloropropene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
(trans) 1,3-Dichloropropene	ND	0.057	EPA 8260C	10-21-16	10-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-26:15ft					
Laboratory ID:	10-202-14					
1,1,2-Trichloroethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Tetrachloroethene	9.2	0.057	EPA 8260C	10-21-16	10-23-16	
1,3-Dichloropropane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Dibromochloromethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,2-Dibromoethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Chlorobenzene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,1,1,2-Tetrachloroethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Bromoform	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Bromobenzene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,1,1,2-Tetrachloroethane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,2,3-Trichloropropane	ND	0.057	EPA 8260C	10-21-16	10-23-16	
2-Chlorotoluene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
4-Chlorotoluene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,3-Dichlorobenzene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,4-Dichlorobenzene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,2-Dichlorobenzene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
1,2-Dibromo-3-chloropropane	ND	0.28	EPA 8260C	10-21-16	10-23-16	
1,2,4-Trichlorobenzene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
Hexachlorobutadiene	ND	0.28	EPA 8260C	10-21-16	10-23-16	
1,2,3-Trichlorobenzene	ND	0.057	EPA 8260C	10-21-16	10-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</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:	KSB-27:2ft					
Laboratory ID:	10-202-15					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0060	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0060	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0060	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0084	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-27:2ft					
Laboratory ID:	10-202-15					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-22-16	10-22-16	
<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>102</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:	KSB-27:7ft					
Laboratory ID:	10-202-16					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0051	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0051	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0051	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0072	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-27:7ft					
Laboratory ID:	10-202-16					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	0.012	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
<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>96</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:	KSB-27:9ft					
Laboratory ID:	10-202-17					
Dichlorodifluoromethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Chloromethane	ND	0.35	EPA 8260C	10-21-16	10-23-16	
Vinyl Chloride	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Bromomethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Chloroethane	ND	0.35	EPA 8260C	10-21-16	10-23-16	
Trichlorofluoromethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,1-Dichloroethene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Iodomethane	ND	0.35	EPA 8260C	10-21-16	10-23-16	
Methylene Chloride	ND	0.49	EPA 8260C	10-21-16	10-23-16	
(trans) 1,2-Dichloroethene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,1-Dichloroethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
2,2-Dichloropropane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
(cis) 1,2-Dichloroethene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Bromochloromethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Chloroform	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,1,1-Trichloroethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Carbon Tetrachloride	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,1-Dichloropropene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,2-Dichloroethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Trichloroethene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,2-Dichloropropane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Dibromomethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Bromodichloromethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
2-Chloroethyl Vinyl Ether	ND	0.35	EPA 8260C	10-21-16	10-23-16	
(cis) 1,3-Dichloropropene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
(trans) 1,3-Dichloropropene	ND	0.070	EPA 8260C	10-21-16	10-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-27:9ft					
Laboratory ID:	10-202-17					
1,1,2-Trichloroethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Tetrachloroethene	2.6	0.070	EPA 8260C	10-21-16	10-23-16	
1,3-Dichloropropane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Dibromochloromethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,2-Dibromoethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Chlorobenzene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,1,1,2-Tetrachloroethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Bromoform	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Bromobenzene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,1,1,2-Tetrachloroethane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,2,3-Trichloropropane	ND	0.070	EPA 8260C	10-21-16	10-23-16	
2-Chlorotoluene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
4-Chlorotoluene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,3-Dichlorobenzene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,4-Dichlorobenzene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,2-Dichlorobenzene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
1,2-Dibromo-3-chloropropane	ND	0.35	EPA 8260C	10-21-16	10-23-16	
1,2,4-Trichlorobenzene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
Hexachlorobutadiene	ND	0.35	EPA 8260C	10-21-16	10-23-16	
1,2,3-Trichlorobenzene	ND	0.070	EPA 8260C	10-21-16	10-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</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
Laboratory ID:	MB1021S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Chloromethane	ND	0.0050	EPA 8260C	10-21-16	10-21-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Bromomethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Chloroethane	ND	0.0050	EPA 8260C	10-21-16	10-21-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Iodomethane	ND	0.0050	EPA 8260C	10-21-16	10-21-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-21-16	10-21-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Chloroform	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-21-16	10-21-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1021S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Bromoform	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-21-16	10-21-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-21-16	10-21-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-21-16	10-21-16	
<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>104</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
Laboratory ID:	MB1022S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloromethane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroethane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Iodomethane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-22-16	10-22-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chloroform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1022S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromoform	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-22-16	10-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-22-16	10-22-16	
<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>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1024S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.0075	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1024S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1021S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0418	0.0463	0.0500	0.0500	84	93	66-127	10	15	
Benzene	0.0469	0.0477	0.0500	0.0500	94	95	76-122	2	15	
Trichloroethene	0.0464	0.0468	0.0500	0.0500	93	94	78-120	1	15	
Toluene	0.0474	0.0489	0.0500	0.0500	95	98	83-120	3	15	
Chlorobenzene	0.0453	0.0458	0.0500	0.0500	91	92	81-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					105	114	73-134			
Toluene-d8					102	103	81-124			
4-Bromofluorobenzene					102	103	80-131			



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

**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:	SB1022S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0443	0.0498	0.0500	0.0500	89	100	66-127	12	15	
Benzene	0.0458	0.0451	0.0500	0.0500	92	90	76-122	2	15	
Trichloroethene	0.0467	0.0456	0.0500	0.0500	93	91	78-120	2	15	
Toluene	0.0462	0.0474	0.0500	0.0500	92	95	83-120	3	15	
Chlorobenzene	0.0453	0.0459	0.0500	0.0500	91	92	81-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					102	106	73-134			
Toluene-d8					100	104	81-124			
4-Bromofluorobenzene					102	108	80-131			



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-202
 Project: 82302

**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:	SB1024S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0389	0.0439	0.0500	0.0500	78	88	66-127	12	15	
Benzene	0.0463	0.0459	0.0500	0.0500	93	92	76-122	1	15	
Trichloroethene	0.0436	0.0442	0.0500	0.0500	87	88	78-120	1	15	
Toluene	0.0450	0.0444	0.0500	0.0500	90	89	83-120	1	15	
Chlorobenzene	0.0442	0.0456	0.0500	0.0500	88	91	81-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	96	73-134			
<i>Toluene-d8</i>					102	98	81-124			
<i>4-Bromofluorobenzene</i>					100	100	80-131			



Date of Report: October 24, 2016
Samples Submitted: October 19, 2016
Laboratory Reference: 1610-202
Project: 82302

% MOISTURE

Date Analyzed: 10-21-16

Client ID	Lab ID	% Moisture
KSB-21:2.5ft	10-202-01	12
KSB-21:7.5ft	10-202-02	21
KSB-22:2.5ft	10-202-03	8
KSB-22:7ft	10-202-04	16
KSB-23:2ft	10-202-05	21
KSB-23:7.5ft	10-202-06	13
KSB-24:2.5ft	10-202-07	10
KSB-24:7ft	10-202-08	6
KSB-25:2ft	10-202-09	12
KSB-25:7.25ft	10-202-10	6
KSB-26:2ft	10-202-11	6
KSB-26:7ft	10-202-12	20
KSB-26:6ft	10-202-13	18
KSB-26:15ft	10-202-14	15
KSB-27:2ft	10-202-15	12
KSB-27:7ft	10-202-16	20
KSB-27:9ft	10-202-17	21





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

October 24, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-206

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 19, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 24, 2016
Samples Submitted: October 19, 2016
Laboratory Reference: 1610-206
Project: 82302

Case Narrative

Samples were collected on October 19, 2016 and received by the laboratory on October 19, 2016. 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: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-10					
Laboratory ID:	10-206-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chloromethane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromomethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chloroethane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Iodomethane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
Methylene Chloride	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chloroform	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-10					
Laboratory ID:	10-206-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromoform	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-25					
Laboratory ID:	10-206-05					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Chloromethane	ND	0.0048	EPA 8260C	10-20-16	10-20-16	
Vinyl Chloride	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Bromomethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Chloroethane	ND	0.0048	EPA 8260C	10-20-16	10-20-16	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethene	0.0017	0.00096	EPA 8260C	10-20-16	10-20-16	
Iodomethane	ND	0.0048	EPA 8260C	10-20-16	10-20-16	
Methylene Chloride	ND	0.0048	EPA 8260C	10-20-16	10-20-16	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Bromochloromethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Chloroform	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Trichloroethene	0.017	0.00096	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Dibromomethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Bromodichloromethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	10-20-16	10-20-16	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-25					
Laboratory ID:	10-206-05					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Tetrachloroethene	9.3	0.11	EPA 8260C	10-21-16	10-21-16	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Dibromochloromethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Chlorobenzene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Bromoform	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Bromobenzene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
2-Chlorotoluene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
4-Chlorotoluene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	10-20-16	10-20-16	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	10-20-16	10-20-16	
<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>101</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-30					
Laboratory ID:	10-206-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chloromethane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromomethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chloroethane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Iodomethane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
Methylene Chloride	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chloroform	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Trichloroethene	0.013	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-30					
Laboratory ID:	10-206-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Tetrachloroethene	2.9	0.12	EPA 8260C	10-21-16	10-21-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromoform	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-20-16	10-20-16	
<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>105</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:	MW-39-40					
Laboratory ID:	10-206-08					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chloromethane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromomethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chloroethane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Iodomethane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chloroform	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-40					
Laboratory ID:	10-206-08					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Tetrachloroethene	0.37	0.063	EPA 8260C	10-21-16	10-21-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromoform	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>94</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:	MW-39-50					
Laboratory ID:	10-206-10					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Chloromethane	ND	0.0064	EPA 8260C	10-20-16	10-20-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Bromomethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Chloroethane	ND	0.0064	EPA 8260C	10-20-16	10-20-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Iodomethane	ND	0.0064	EPA 8260C	10-20-16	10-20-16	
Methylene Chloride	ND	0.0064	EPA 8260C	10-20-16	10-20-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Bromochloromethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Chloroform	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Trichloroethene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Dibromomethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	10-20-16	10-20-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-50					
Laboratory ID:	10-206-10					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Tetrachloroethene	0.0021	0.0013	EPA 8260C	10-20-16	10-20-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Chlorobenzene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Bromoform	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Bromobenzene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	10-20-16	10-20-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	10-20-16	10-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>95</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:	MB1020S3					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chloromethane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromomethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chloroethane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Iodomethane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chloroform	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	



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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:		MB1020S3				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromoform	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-20-16	10-20-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-20-16	10-20-16	
<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>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



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

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1021S1					
Tetrachloroethene	ND	0.050	EPA 8260C	10-21-16	10-21-16	
<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>115</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



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**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:	SB1020S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0422	0.0429	0.0500	0.0500	84	86	66-127	2	15	
Benzene	0.0451	0.0462	0.0500	0.0500	90	92	76-122	2	15	
Trichloroethene	0.0464	0.0465	0.0500	0.0500	93	93	78-120	0	15	
Toluene	0.0473	0.0478	0.0500	0.0500	95	96	83-120	1	15	
Chlorobenzene	0.0456	0.0470	0.0500	0.0500	91	94	81-120	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					97	100	73-134			
Toluene-d8					98	102	81-124			
4-Bromofluorobenzene					99	104	80-131			



Date of Report: October 24, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1021S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0496	0.0498	0.0500	0.0500	99	100	66-127	0	15	
Benzene	0.0508	0.0508	0.0500	0.0500	102	102	76-122	0	15	
Trichloroethene	0.0519	0.0514	0.0500	0.0500	104	103	78-120	1	15	
Toluene	0.0532	0.0538	0.0500	0.0500	106	108	83-120	1	15	
Chlorobenzene	0.0484	0.0482	0.0500	0.0500	97	96	81-120	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>99</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>110</i>	<i>108</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>98</i>	<i>80-131</i>			



Date of Report: October 24, 2016
Samples Submitted: October 19, 2016
Laboratory Reference: 1610-206
Project: 82302

% MOISTURE

Date Analyzed: 10-20-16

Client ID	Lab ID	% Moisture
MW-39-10	10-206-02	19
MW-39-25	10-206-05	16
MW-39-30	10-206-06	16
MW-39-40	10-206-08	15
MW-39-50	10-206-10	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





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

October 26, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-206B

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 19, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 26, 2016
Samples Submitted: October 19, 2016
Laboratory Reference: 1610-206B
Project: 82302

Case Narrative

Samples were collected on October 19, 2016 and received by the laboratory on October 19, 2016. 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: October 26, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206B
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-15					
Laboratory ID:	10-206-03					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0048	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0048	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0048	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0068	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	



Date of Report: October 26, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206B
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-15					
Laboratory ID:	10-206-03					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	10-25-16	10-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</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>				



Date of Report: October 26, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206B
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-20					
Laboratory ID:	10-206-04					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0049	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0049	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0049	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0069	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	0.0046	0.00098	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	



Date of Report: October 26, 2016
 Samples Submitted: October 19, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39-20					
Laboratory ID:	10-206-04					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	5.5	0.14	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	10-25-16	10-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>81</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-131</i>				



Date of Report: October 26, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206B
 Project: 82302

**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:	MB1025S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	



Date of Report: October 26, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206B
 Project: 82302

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1025S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
<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>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



Date of Report: October 26, 2016
 Samples Submitted: October 19, 2016
 Laboratory Reference: 1610-206B
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1025S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0619	0.0547	0.0500	0.0500	124	109	66-127	12	15	
Benzene	0.0511	0.0495	0.0500	0.0500	102	99	76-122	3	15	
Trichloroethene	0.0499	0.0522	0.0500	0.0500	100	104	78-120	5	15	
Toluene	0.0493	0.0516	0.0500	0.0500	99	103	83-120	5	15	
Chlorobenzene	0.0492	0.0512	0.0500	0.0500	98	102	81-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>104</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>101</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>97</i>	<i>100</i>	<i>80-131</i>			



Date of Report: October 26, 2016
Samples Submitted: October 19, 2016
Laboratory Reference: 1610-206B
Project: 82302

% MOISTURE

Date Analyzed: 10-25-16

Client ID	Lab ID	% Moisture
MW-39-15	10-206-03	15
MW-39-20	10-206-04	15





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

October 24, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-232

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 20, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 24, 2016
Samples Submitted: October 20, 2016
Laboratory Reference: 1610-232
Project: 82302

Case Narrative

Samples were collected on October 20, 2016 and received by the laboratory on October 20, 2016. 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: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-40-5					
Laboratory ID:	10-232-01					
Dichlorodifluoromethane	ND	0.0022	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.013	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0022	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0085	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0085	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.012	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	0.0023	0.0017	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0085	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-40-5					
Laboratory ID:	10-232-01					
1,1,2-Trichloroethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	0.044	0.0017	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0085	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0085	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0017	EPA 8260C	10-24-16	10-24-16	
<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>98</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28-5					
Laboratory ID:	10-232-03					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.0082	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0076	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28-5					
Laboratory ID:	10-232-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
<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>81</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28-10					
Laboratory ID:	10-232-04					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.011	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0018	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0098	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28-10					
Laboratory ID:	10-232-04					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
<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>100</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28-20					
Laboratory ID:	10-232-06					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.0092	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0016	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0061	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0061	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0086	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28-20					
Laboratory ID:	10-232-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-24-16	10-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>95</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:	HZ-MW-28-30					
Laboratory ID:	10-232-08					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.0081	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0076	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28-30					
Laboratory ID:	10-232-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-16	10-24-16	
<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>99</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
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**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:	MB1024S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.0075	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1024S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



Date of Report: October 24, 2016
 Samples Submitted: October 20, 2016
 Laboratory Reference: 1610-232
 Project: 82302

**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:	SB1024S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0389	0.0439	0.0500	0.0500	78	88	66-127	12	15	
Benzene	0.0463	0.0459	0.0500	0.0500	93	92	76-122	1	15	
Trichloroethene	0.0436	0.0442	0.0500	0.0500	87	88	78-120	1	15	
Toluene	0.0450	0.0444	0.0500	0.0500	90	89	83-120	1	15	
Chlorobenzene	0.0442	0.0456	0.0500	0.0500	88	91	81-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	96	73-134			
<i>Toluene-d8</i>					102	98	81-124			
<i>4-Bromofluorobenzene</i>					100	100	80-131			



Date of Report: October 24, 2016
Samples Submitted: October 20, 2016
Laboratory Reference: 1610-232
Project: 82302

% MOISTURE

Date Analyzed: 10-21-16

Client ID	Lab ID	% Moisture
MW-40-5	10-232-01	20
HZ-MW-28-5	10-232-03	16
HZ-MW-28-10	10-232-04	33
HZ-MW-28-20	10-232-06	19
HZ-MW-28-30	10-232-08	19





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

October 26, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-237

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 21, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 26, 2016
Samples Submitted: October 21, 2016
Laboratory Reference: 1610-237
Project: 82302

Case Narrative

Samples were collected on October 21, 2016 and received by the laboratory on October 21, 2016. 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.

Surrogate Standard Toluene-d8 is outside control limits for sample S-MW-5-20 due to sample matrix effects. The sample was re-analyzed with similar results.

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



Date of Report: October 26, 2016
 Samples Submitted: October 21, 2016
 Laboratory Reference: 1610-237
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29-5					
Laboratory ID:	10-237-01					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0059	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0059	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0059	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0083	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29-5					
Laboratory ID:	10-237-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
<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>101</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:	HZ-MW-29-10					
Laboratory ID:	10-237-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29-10					
Laboratory ID:	10-237-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	73-134				
<i>Toluene-d8</i>	103	81-124				
<i>4-Bromofluorobenzene</i>	99	80-131				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29-20					
Laboratory ID:	10-237-04					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0086	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29-20					
Laboratory ID:	10-237-04					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	73-134				
<i>Toluene-d8</i>	103	81-124				
<i>4-Bromofluorobenzene</i>	99	80-131				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29-30					
Laboratory ID:	10-237-06					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0047	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0047	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0047	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0066	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	0.0023	0.00094	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29-30					
Laboratory ID:	10-237-06					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	0.0027	0.00094	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	10-25-16	10-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</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:	S-MW-5-5					
Laboratory ID:	10-237-08					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0085	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	0.0012	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-5-5					
Laboratory ID:	10-237-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	0.0025	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
<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>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</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:	S-MW-5-10					
Laboratory ID:	10-237-09					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0058	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0058	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0058	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	0.014	0.0082	EPA 8260C	10-25-16	10-25-16	Y,H
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	0.014	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	0.0076	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-5-10					
Laboratory ID:	10-237-09					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	0.10	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-25-16	10-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>103</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:	S-MW-5-20					
Laboratory ID:	10-237-11					
Dichlorodifluoromethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Chloromethane	ND	0.27	EPA 8260C	10-24-16	10-25-16	
Vinyl Chloride	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Bromomethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Chloroethane	ND	0.27	EPA 8260C	10-24-16	10-25-16	
Trichlorofluoromethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,1-Dichloroethene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Iodomethane	ND	0.27	EPA 8260C	10-24-16	10-25-16	
Methylene Chloride	ND	0.38	EPA 8260C	10-24-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,1-Dichloroethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
2,2-Dichloropropane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Bromochloromethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Chloroform	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,1,1-Trichloroethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Carbon Tetrachloride	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,1-Dichloropropene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,2-Dichloroethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Trichloroethene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,2-Dichloropropane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Dibromomethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Bromodichloromethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.27	EPA 8260C	10-24-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.055	EPA 8260C	10-24-16	10-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-5-20					
Laboratory ID:	10-237-11					
1,1,2-Trichloroethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Tetrachloroethene	0.99	0.055	EPA 8260C	10-24-16	10-25-16	
1,3-Dichloropropane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Dibromochloromethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,2-Dibromoethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Chlorobenzene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Bromoform	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Bromobenzene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,2,3-Trichloropropane	ND	0.055	EPA 8260C	10-24-16	10-25-16	
2-Chlorotoluene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
4-Chlorotoluene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,3-Dichlorobenzene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,4-Dichlorobenzene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,2-Dichlorobenzene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.27	EPA 8260C	10-24-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
Hexachlorobutadiene	ND	0.27	EPA 8260C	10-24-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.055	EPA 8260C	10-24-16	10-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>60</i>	<i>81-124</i>				Q
<i>4-Bromofluorobenzene</i>	<i>100</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
Laboratory ID:	MB1024S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-24-16	10-24-16	
Chloromethane	ND	0.0075	EPA 8260C	10-24-16	10-24-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	10-24-16	10-24-16	
Bromomethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chloroethane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Iodomethane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-24-16	10-24-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chloroform	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1024S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromoform	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-24-16	10-24-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-16	10-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</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
Laboratory ID:	MB1025S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloromethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromomethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloroethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Iodomethane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
Methylene Chloride	ND	0.0070	EPA 8260C	10-25-16	10-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chloroform	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1025S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromoform	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-25-16	10-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-16	10-25-16	
<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>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



Date of Report: October 26, 2016
 Samples Submitted: October 21, 2016
 Laboratory Reference: 1610-237
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1024S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0389	0.0439	0.0500	0.0500	78	88	66-127	12	15	
Benzene	0.0463	0.0459	0.0500	0.0500	93	92	76-122	1	15	
Trichloroethene	0.0436	0.0442	0.0500	0.0500	87	88	78-120	1	15	
Toluene	0.0450	0.0444	0.0500	0.0500	90	89	83-120	1	15	
Chlorobenzene	0.0442	0.0456	0.0500	0.0500	88	91	81-120	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	96	73-134			
Toluene-d8					102	98	81-124			
4-Bromofluorobenzene					100	100	80-131			



Date of Report: October 26, 2016
 Samples Submitted: October 21, 2016
 Laboratory Reference: 1610-237
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1025S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0619	0.0547	0.0500	0.0500	124	109	66-127	12	15	
Benzene	0.0511	0.0495	0.0500	0.0500	102	99	76-122	3	15	
Trichloroethene	0.0499	0.0522	0.0500	0.0500	100	104	78-120	5	15	
Toluene	0.0493	0.0516	0.0500	0.0500	99	103	83-120	5	15	
Chlorobenzene	0.0492	0.0512	0.0500	0.0500	98	102	81-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>104</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>101</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>97</i>	<i>100</i>	<i>80-131</i>			



Date of Report: October 26, 2016
Samples Submitted: October 21, 2016
Laboratory Reference: 1610-237
Project: 82302

% MOISTURE

Date Analyzed: 10-22-16

Client ID	Lab ID	% Moisture
HZ-MW-29-5	10-237-01	20
HZ-MW-29-10	10-237-02	19
HZ-MW-29-20	10-237-04	25
HZ-MW-29-30	10-237-06	12
S-MW-5-5	10-237-08	21
S-MW-5-10	10-237-09	23
S-MW-5-20	10-237-11	16





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





Mn 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:

10-237

Company: Law

Project Number: 82302

Project Name: Benton Service Ctr.

Project Manager: J. VITTA

Sampled by: V. ATKINS

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	S-mw-5-20	10/21/10	1435	S	4
12	S-mw-5-25	10/21/10	1445	S	4

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
4																		
4																		

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		Kane Environmental	10/21	4:00	
Received		OnSite Env	10/21/10	1600	
Relinquished					
Received					
Relinquished					
Received					
Relinquished					

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

November 3, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-337

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 31, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 3, 2016
Samples Submitted: October 31, 2016
Laboratory Reference: 1610-337
Project: 82302

Case Narrative

Samples were collected on October 31, 2016 and received by the laboratory on October 31, 2016. 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: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-337
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-10					
Laboratory ID:	10-337-01					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.0016	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	0.0078	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-337
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-10					
Laboratory ID:	10-337-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	0.0044	0.0012	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
<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>102</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-131</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-337
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-12					
Laboratory ID:	10-337-02					
Dichlorodifluoromethane	ND	0.46	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.8	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.8	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.8	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.8	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	2.2	0.36	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.36	EPA 8260C	11-1-16	11-1-16	



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-337
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-12					
Laboratory ID:	10-337-02					
1,1,2-Trichloroethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	14000	140	EPA 8260C	11-1-16	11-2-16	
1,3-Dichloropropane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.36	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.8	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	1.8	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.36	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-131</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-337
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-20					
Laboratory ID:	10-337-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	0.0063	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.0016	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	0.0063	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	0.0063	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	0.0081	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-20					
Laboratory ID:	10-337-03					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	0.20	0.0013	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
<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>103</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:	MW-24-30					
Laboratory ID:	10-337-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	0.0055	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.0014	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	0.0055	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	0.0055	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	0.0071	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-30					
Laboratory ID:	10-337-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	0.011	0.0011	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-2-16	11-2-16	
<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>106</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:	MW-24-15					
Laboratory ID:	10-337-08					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.0016	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	0.0078	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24-15					
Laboratory ID:	10-337-08					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	1.0	0.079	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>97</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
Laboratory ID:	MB1101S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1101S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</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
Laboratory ID:	MB1102S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	0.0064	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
<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>106</i>	<i>80-131</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-337
 Project: 82302

**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:	SB1101S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0519	0.0510	0.0500	0.0500	104	102	66-127	2	15	
Benzene	0.0556	0.0535	0.0500	0.0500	111	107	76-122	4	15	
Trichloroethene	0.0522	0.0489	0.0500	0.0500	104	98	78-120	7	15	
Toluene	0.0509	0.0499	0.0500	0.0500	102	100	83-120	2	15	
Chlorobenzene	0.0520	0.0514	0.0500	0.0500	104	103	81-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	97	73-134			
<i>Toluene-d8</i>					98	100	81-124			
<i>4-Bromofluorobenzene</i>					95	98	80-131			



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-337
 Project: 82302

**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:	SB1102S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0508	0.0554	0.0500	0.0500	102	111	66-127	9	15	
Benzene	0.0488	0.0515	0.0500	0.0500	98	103	76-122	5	15	
Trichloroethene	0.0456	0.0484	0.0500	0.0500	91	97	78-120	6	15	
Toluene	0.0491	0.0517	0.0500	0.0500	98	103	83-120	5	15	
Chlorobenzene	0.0484	0.0510	0.0500	0.0500	97	102	81-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	103	73-134			
<i>Toluene-d8</i>					98	103	81-124			
<i>4-Bromofluorobenzene</i>					98	101	80-131			



Date of Report: November 3, 2016
Samples Submitted: October 31, 2016
Laboratory Reference: 1610-337
Project: 82302

% MOISTURE

Date Analyzed: 11-1-16

Client ID	Lab ID	% Moisture
MW-24-10	10-337-01	16
MW-24-12	10-337-02	19
MW-24-20	10-337-03	13
MW-24-30	10-337-04	12
MW-24-15	10-337-08	22





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

November 22, 2016

Vance Atkins
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1611-197

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on November 18, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 22, 2016
Samples Submitted: November 18, 2016
Laboratory Reference: 1611-197
Project: 82302

Case Narrative

Samples were collected on November 18, 2016 and received by the laboratory on November 18, 2016. 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: November 22, 2016
 Samples Submitted: November 18, 2016
 Laboratory Reference: 1611-197
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:6.5					
Laboratory ID:	11-197-01					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Chloromethane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Bromomethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Chloroethane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Iodomethane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Bromochloromethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Chloroform	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Trichloroethene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Dibromomethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	



Date of Report: November 22, 2016
 Samples Submitted: November 18, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:6.5					
Laboratory ID:	11-197-01					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Tetrachloroethene	0.057	0.00099	EPA 8260C	11-21-16	11-21-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Chlorobenzene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Bromoform	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Bromobenzene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	11-21-16	11-21-16	
<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>96</i>	<i>80-131</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 18, 2016
 Laboratory Reference: 1611-197
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:10					
Laboratory ID:	11-197-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloromethane	ND	0.0054	EPA 8260C	11-21-16	11-21-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroethane	ND	0.0054	EPA 8260C	11-21-16	11-21-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Iodomethane	ND	0.0054	EPA 8260C	11-21-16	11-21-16	
Methylene Chloride	ND	0.0054	EPA 8260C	11-21-16	11-21-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	11-21-16	11-21-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	



Date of Report: November 22, 2016
 Samples Submitted: November 18, 2016
 Laboratory Reference: 1611-197
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:10					
Laboratory ID:	11-197-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Tetrachloroethene	0.099	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromoform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	11-21-16	11-21-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-131</i>				



Date of Report: November 22, 2016
 Samples Submitted: November 18, 2016
 Laboratory Reference: 1611-197
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:21					
Laboratory ID:	11-197-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloromethane	ND	0.0057	EPA 8260C	11-21-16	11-21-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroethane	ND	0.0057	EPA 8260C	11-21-16	11-21-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Iodomethane	ND	0.0057	EPA 8260C	11-21-16	11-21-16	
Methylene Chloride	ND	0.0057	EPA 8260C	11-21-16	11-21-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	11-21-16	11-21-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	



Date of Report: November 22, 2016
 Samples Submitted: November 18, 2016
 Laboratory Reference: 1611-197
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:21					
Laboratory ID:	11-197-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromoform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	11-21-16	11-21-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</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:	HZ-MW-30:31					
Laboratory ID:	11-197-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloromethane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroethane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Iodomethane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
Methylene Chloride	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:31					
Laboratory ID:	11-197-06					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Tetrachloroethene	0.0041	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromoform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>92</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:	HZ-MW-30:40					
Laboratory ID:	11-197-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloromethane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroethane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Iodomethane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
Methylene Chloride	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chloroform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Trichloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-30:40					
Laboratory ID:	11-197-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromoform	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-21-16	11-21-16	
<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>103</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:	MB1121S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Chloromethane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Bromomethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Chloroethane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Iodomethane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Chloroform	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	



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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:	MB1121S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Bromoform	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-21-16	11-21-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-21-16	11-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-131</i>				



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 Project: 82302

**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:	SB1121S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0437	0.0476	0.0500	0.0500	87	95	66-127	9	15	
Benzene	0.0461	0.0476	0.0500	0.0500	92	95	76-122	3	15	
Trichloroethene	0.0415	0.0445	0.0500	0.0500	83	89	78-120	7	15	
Toluene	0.0427	0.0455	0.0500	0.0500	85	91	83-120	6	15	
Chlorobenzene	0.0446	0.0465	0.0500	0.0500	89	93	81-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>89</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>96</i>	<i>87</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>100</i>	<i>90</i>	<i>80-131</i>			



Date of Report: November 22, 2016
Samples Submitted: November 18, 2016
Laboratory Reference: 1611-197
Project: 82302

% MOISTURE

Date Analyzed: 11-21-16

Client ID	Lab ID	% Moisture
HZ-MW-30:6.5	11-197-01	6
HZ-MW-30:10	11-197-02	6
HZ-MW-30:21	11-197-04	22
HZ-MW-30:31	11-197-06	18
HZ-MW-30:40	11-197-08	15





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





Mn 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: **11-197**

Company: **Kane Environmental**
Project Number: **82302**
Project Name: **BSC**
Project Manager: **Vance Atkins**
Sampled by: **JJ + BH**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	H2-MW-30: 6.5	11/8/16	1115	S	4
2	H2-MW-30: 1D		1118		
3	H2-MW-30: 15.5		1125		
4	H2-MW-30: 21		1130		
5	H2-MW-30: 26		1200		
6	H2-MW-30: 31		1206		
7	H2-MW-30: 35		1210		
8	H2-MW-30: 4D		1218		
9	H2-MW-30: 4S		1225		
10	H2-MW-30: 5D		1230		

Method	Result
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

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		Kane	11/8	1450	
Received			11/8/16	1450	
Relinquished					
Received					
Relinquished					
Received					
Relinquished					

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

November 29, 2016

Vance Atkins
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1611-218

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on November 22, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 29, 2016
Samples Submitted: November 22, 2016
Laboratory Reference: 1611-218
Project: 82302

Case Narrative

Samples were collected on November 21, 2016 and received by the laboratory on November 22, 2016. 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: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-218
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-31:10.75					
Laboratory ID:	11-218-01					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	11-28-16	11-28-16	
Chloromethane	ND	0.0059	EPA 8260C	11-28-16	11-28-16	
Vinyl Chloride	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Bromomethane	ND	0.0020	EPA 8260C	11-28-16	11-28-16	
Chloroethane	ND	0.0041	EPA 8260C	11-28-16	11-28-16	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Iodomethane	ND	0.0098	EPA 8260C	11-28-16	11-28-16	
Methylene Chloride	ND	0.0041	EPA 8260C	11-28-16	11-28-16	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
(cis) 1,2-Dichloroethene	0.0012	0.00081	EPA 8260C	11-28-16	11-28-16	
Bromochloromethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Chloroform	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Trichloroethene	0.0019	0.00081	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Dibromomethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Bromodichloromethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	11-28-16	11-28-16	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	



Date of Report: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-218
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-31:10.75					
Laboratory ID:	11-218-01					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Tetrachloroethene	0.057	0.00081	EPA 8260C	11-28-16	11-28-16	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Dibromochloromethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Chlorobenzene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Bromoform	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Bromobenzene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
2-Chlorotoluene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
4-Chlorotoluene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	11-28-16	11-28-16	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	11-28-16	11-28-16	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	11-28-16	11-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-131</i>				



Date of Report: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-218
 Project: 82302

**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:	MB1128S1					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	11-28-16	11-28-16	
Chloromethane	ND	0.0072	EPA 8260C	11-28-16	11-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromomethane	ND	0.0024	EPA 8260C	11-28-16	11-28-16	
Chloroethane	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Iodomethane	ND	0.012	EPA 8260C	11-28-16	11-28-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Chloroform	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0082	EPA 8260C	11-28-16	11-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	



Date of Report: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-218
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1128S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromoform	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>80-131</i>				



Date of Report: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-218
 Project: 82302

**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:	SB1128S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0518	0.0538	0.0500	0.0500	104	108	66-127	4	15	
Benzene	0.0523	0.0542	0.0500	0.0500	105	108	76-122	4	15	
Trichloroethene	0.0535	0.0549	0.0500	0.0500	107	110	78-120	3	15	
Toluene	0.0536	0.0557	0.0500	0.0500	107	111	83-120	4	15	
Chlorobenzene	0.0481	0.0491	0.0500	0.0500	96	98	81-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>90</i>	<i>90</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>97</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>108</i>	<i>105</i>	<i>80-131</i>			



Date of Report: November 29, 2016
Samples Submitted: November 22, 2016
Laboratory Reference: 1611-218
Project: 82302

% MOISTURE

Date Analyzed: 11-23-16

Client ID	Lab ID	% Moisture
HZ-MW-31:10.75	11-218-01	14





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





Mn OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (In working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **11-218**

Company: **Kane Environmental**
 Project Number: **82302**
 Project Name: **BSC**
 Project Manager: **Vane Atkins**
 Sampled by: **JJ**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	H2-Mw-31: D.75	11/21/16	1322	Soil	4

Analysis	Result
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

Received	Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
			Kane Environmental	11/22/16	1515	
			OSE	11/22/16	1515	

Received _____ Relinquished _____

Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

November 28, 2016

Vance Atkins
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1611-205

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on November 21, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 28, 2016
Samples Submitted: November 21, 2016
Laboratory Reference: 1611-205
Project: 82302

Case Narrative

Samples were collected on November 21, 2016 and received by the laboratory on November 21, 2016. 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: November 28, 2016
 Samples Submitted: November 21, 2016
 Laboratory Reference: 1611-205
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-32:6.5					
Laboratory ID:	11-205-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Chloromethane	ND	0.0053	EPA 8260C	11-22-16	11-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Bromomethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Chloroethane	ND	0.0053	EPA 8260C	11-22-16	11-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Iodomethane	ND	0.0067	EPA 8260C	11-22-16	11-22-16	
Methylene Chloride	ND	0.0053	EPA 8260C	11-22-16	11-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Chloroform	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	11-22-16	11-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	



Date of Report: November 28, 2016
 Samples Submitted: November 21, 2016
 Laboratory Reference: 1611-205
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-32:6.5					
Laboratory ID:	11-205-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Bromoform	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	11-22-16	11-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	11-22-16	11-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-22-16	11-22-16	
<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>97</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-131</i>				



Date of Report: November 28, 2016
 Samples Submitted: November 21, 2016
 Laboratory Reference: 1611-205
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-32:10					
Laboratory ID:	11-205-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Chloromethane	ND	0.0058	EPA 8260C	11-22-16	11-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Bromomethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Chloroethane	ND	0.0058	EPA 8260C	11-22-16	11-22-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Iodomethane	ND	0.0073	EPA 8260C	11-22-16	11-22-16	
Methylene Chloride	ND	0.0058	EPA 8260C	11-22-16	11-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Bromochloromethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Chloroform	0.0014	0.0012	EPA 8260C	11-22-16	11-22-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Trichloroethene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Dibromomethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	11-22-16	11-22-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	



Date of Report: November 28, 2016
 Samples Submitted: November 21, 2016
 Laboratory Reference: 1611-205
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-32:10					
Laboratory ID:	11-205-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Chlorobenzene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Bromoform	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Bromobenzene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	11-22-16	11-22-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	11-22-16	11-22-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-22-16	11-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	73-134				
<i>Toluene-d8</i>	99	81-124				
<i>4-Bromofluorobenzene</i>	95	80-131				



Date of Report: November 28, 2016
 Samples Submitted: November 21, 2016
 Laboratory Reference: 1611-205
 Project: 82302

**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:	MB1122S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Chloromethane	ND	0.0050	EPA 8260C	11-22-16	11-22-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Bromomethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Chloroethane	ND	0.0050	EPA 8260C	11-22-16	11-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Iodomethane	ND	0.0063	EPA 8260C	11-22-16	11-22-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-22-16	11-22-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Chloroform	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-22-16	11-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	



Date of Report: November 28, 2016
 Samples Submitted: November 21, 2016
 Laboratory Reference: 1611-205
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1122S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Bromoform	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-22-16	11-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-22-16	11-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-22-16	11-22-16	
<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>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-131</i>				



Date of Report: November 28, 2016
 Samples Submitted: November 21, 2016
 Laboratory Reference: 1611-205
 Project: 82302

**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:	SB1122S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0526	0.0486	0.0500	0.0500	105	97	66-127	8	15	
Benzene	0.0515	0.0519	0.0500	0.0500	103	104	76-122	1	15	
Trichloroethene	0.0482	0.0490	0.0500	0.0500	96	98	78-120	2	15	
Toluene	0.0485	0.0483	0.0500	0.0500	97	97	83-120	0	15	
Chlorobenzene	0.0488	0.0508	0.0500	0.0500	98	102	81-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>93</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>87</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>91</i>	<i>80-131</i>			



Date of Report: November 28, 2016
Samples Submitted: November 21, 2016
Laboratory Reference: 1611-205
Project: 82302

% MOISTURE

Date Analyzed: 11-21-16

Client ID	Lab ID	% Moisture
HZ-MW-32:6.5	11-205-01	13
HZ-MW-32:10	11-205-02	19





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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) 883-3981 • www.onsite-env.com

Chain of Custody

Company: **Kane Environmental**

Project Number: **82302**

Project Name: **BSC**

Project Manager: **Vance Atkins**

Sampled by: **JJ**

Turnaround Request
 (In working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Lab ID

Date Sampled

Time Sampled

Matrix

Number of Containers

- NWTPH-HCID
- NWTPH-Gx/BTEX
- NWTPH-Gx
- NWTPH-Dx (Acid / SG Clean-up)
- Volatiles 8260C
- Halogenated Volatiles 8260C
- EDB EPA 8011 (Waters Only)
- Semivolatiles 8270D/SIM (with low-level PAHs)
- PAHs 8270D/SIM (low-level)
- PCBs 8082A
- Organochlorine Pesticides 8081B
- Organophosphorus Pesticides 8270D/SIM
- Chlorinated Acid Herbicides 8151A
- Total RCRA Metals
- Total MTCA Metals
- TCLP Metals
- HEM (oil and grease) 1664A

% Moisture

1 HZ-Mw-32: 6.5
 2 HZ-Mw-32: 10
 3 HZ-Mw-32: 15
 4 HZ-Mw-32: 20
 5 HZ-Mw-32: 25

11/21/16 0950 Soil 4
 0957
 1005
 1008
 1015

[Large handwritten signature/initials across the middle of the page]

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

[Signature]

Kane Environmental

11/21/16

1058

Received

[Signature]

[Signature]

11/21/16

1058

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

Laboratory Number: **11-205**



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

November 29, 2016

Vance Atkins
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1611-217

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on November 22, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 29, 2016
Samples Submitted: November 22, 2016
Laboratory Reference: 1611-217
Project: 82302

Case Narrative

Samples were collected on November 22, 2016 and received by the laboratory on November 22, 2016. 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: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-217
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-33:5					
Laboratory ID:	11-217-01					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Chloromethane	ND	0.0044	EPA 8260C	11-23-16	11-23-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Bromomethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Chloroethane	ND	0.0044	EPA 8260C	11-23-16	11-23-16	
Trichlorofluoromethane	0.0029	0.00089	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Iodomethane	ND	0.0058	EPA 8260C	11-23-16	11-23-16	
Methylene Chloride	ND	0.0044	EPA 8260C	11-23-16	11-23-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Bromochloromethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Chloroform	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Trichloroethene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Dibromomethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	11-23-16	11-23-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-33:5					
Laboratory ID:	11-217-01					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Tetrachloroethene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Chlorobenzene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Bromoform	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Bromobenzene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	11-23-16	11-23-16	
<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>98</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:	HZ-MW-33:10.5					
Laboratory ID:	11-217-02					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	11-28-16	11-28-16	
Chloromethane	ND	0.0077	EPA 8260C	11-28-16	11-28-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Bromomethane	ND	0.0026	EPA 8260C	11-28-16	11-28-16	
Chloroethane	ND	0.0054	EPA 8260C	11-28-16	11-28-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Iodomethane	ND	0.013	EPA 8260C	11-28-16	11-28-16	
Methylene Chloride	ND	0.0054	EPA 8260C	11-28-16	11-28-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Chloroform	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Trichloroethene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260C	11-28-16	11-28-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-33:10.5					
Laboratory ID:	11-217-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Bromoform	ND	0.0011	EPA 8260C	11-28-16	11-28-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
<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>105</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:	HZ-MW-33:20					
Laboratory ID:	11-217-04					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Chloromethane	ND	0.0060	EPA 8260C	11-23-16	11-23-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Bromomethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Chloroethane	ND	0.0060	EPA 8260C	11-23-16	11-23-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Iodomethane	ND	0.0079	EPA 8260C	11-23-16	11-23-16	
Methylene Chloride	ND	0.0060	EPA 8260C	11-23-16	11-23-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Bromochloromethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Chloroform	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Trichloroethene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Dibromomethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	11-23-16	11-23-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-33:20					
Laboratory ID:	11-217-04					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Chlorobenzene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Bromoform	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Bromobenzene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-23-16	11-23-16	
<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>103</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:	HZ-MW-33:31					
Laboratory ID:	11-217-06					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Chloromethane	ND	0.0042	EPA 8260C	11-23-16	11-23-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Bromomethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Chloroethane	ND	0.0042	EPA 8260C	11-23-16	11-23-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Iodomethane	ND	0.0055	EPA 8260C	11-23-16	11-23-16	
Methylene Chloride	ND	0.0042	EPA 8260C	11-23-16	11-23-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Bromochloromethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Chloroform	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Trichloroethene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Dibromomethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	11-23-16	11-23-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-33:31					
Laboratory ID:	11-217-06					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Chlorobenzene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Bromoform	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Bromobenzene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	11-23-16	11-23-16	
<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>99</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:	HZ-MW-34:5.75					
Laboratory ID:	11-217-08					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chloromethane	ND	0.0052	EPA 8260C	11-23-16	11-23-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromomethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chloroethane	ND	0.0052	EPA 8260C	11-23-16	11-23-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Iodomethane	ND	0.0068	EPA 8260C	11-23-16	11-23-16	
Methylene Chloride	ND	0.0052	EPA 8260C	11-23-16	11-23-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chloroform	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	11-23-16	11-23-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-34:5.75					
Laboratory ID:	11-217-08					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromoform	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>97</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:	HZ-MW-34:10					
Laboratory ID:	11-217-09					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chloromethane	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromomethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chloroethane	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Iodomethane	ND	0.0071	EPA 8260C	11-23-16	11-23-16	
Methylene Chloride	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
(cis) 1,2-Dichloroethene	0.0014	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chloroform	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Trichloroethene	0.0012	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-34:10					
Laboratory ID:	11-217-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Tetrachloroethene	0.0014	0.0011	EPA 8260C	11-23-16	11-23-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromoform	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
<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>100</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:	HZ-MW-34:20					
Laboratory ID:	11-217-11					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chloromethane	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
Vinyl Chloride	0.0015	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromomethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chloroethane	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Iodomethane	ND	0.0070	EPA 8260C	11-23-16	11-23-16	
Methylene Chloride	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
(cis) 1,2-Dichloroethene	0.013	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromochloromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chloroform	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Trichloroethene	0.0031	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Dibromomethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-34:20					
Laboratory ID:	11-217-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Chlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromoform	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Bromobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	11-23-16	11-23-16	
<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>104</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
Laboratory ID:	MB1123S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chloromethane	ND	0.0050	EPA 8260C	11-23-16	11-23-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromomethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chloroethane	ND	0.0050	EPA 8260C	11-23-16	11-23-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Iodomethane	ND	0.0065	EPA 8260C	11-23-16	11-23-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-23-16	11-23-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chloroform	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-23-16	11-23-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1123S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromoform	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-23-16	11-23-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-23-16	11-23-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-23-16	11-23-16	
<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>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1128S1					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	11-28-16	11-28-16	
Chloromethane	ND	0.0072	EPA 8260C	11-28-16	11-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromomethane	ND	0.0024	EPA 8260C	11-28-16	11-28-16	
Chloroethane	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Iodomethane	ND	0.012	EPA 8260C	11-28-16	11-28-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Chloroform	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0082	EPA 8260C	11-28-16	11-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	



Date of Report: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-217
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1128S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromoform	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-28-16	11-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-28-16	11-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>80-131</i>				



Date of Report: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-217
 Project: 82302

**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:	SB1123S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0450	0.0511	0.0500	0.0500	90	102	66-127	13	15	
Benzene	0.0472	0.0524	0.0500	0.0500	94	105	76-122	10	15	
Trichloroethene	0.0457	0.0490	0.0500	0.0500	91	98	78-120	7	15	
Toluene	0.0464	0.0492	0.0500	0.0500	93	98	83-120	6	15	
Chlorobenzene	0.0459	0.0513	0.0500	0.0500	92	103	81-120	11	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>90</i>	<i>101</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>88</i>	<i>97</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>86</i>	<i>101</i>	<i>80-131</i>			



Date of Report: November 29, 2016
 Samples Submitted: November 22, 2016
 Laboratory Reference: 1611-217
 Project: 82302

**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:	SB1128S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0518	0.0538	0.0500	0.0500	104	108	66-127	4	15	
Benzene	0.0523	0.0542	0.0500	0.0500	105	108	76-122	4	15	
Trichloroethene	0.0535	0.0549	0.0500	0.0500	107	110	78-120	3	15	
Toluene	0.0536	0.0557	0.0500	0.0500	107	111	83-120	4	15	
Chlorobenzene	0.0481	0.0491	0.0500	0.0500	96	98	81-120	2	15	
<i>Surrogate:</i>										
Dibromofluoromethane					90	90	73-134			
Toluene-d8					99	97	81-124			
4-Bromofluorobenzene					108	105	80-131			



Date of Report: November 29, 2016
Samples Submitted: November 22, 2016
Laboratory Reference: 1611-217
Project: 82302

% MOISTURE

Date Analyzed: 11-23-16

Client ID	Lab ID	% Moisture
HZ-MW-33:5	11-217-01	7
HZ-MW-33:10.5	11-217-02	18
HZ-MW-33:20	11-217-04	18
HZ-MW-33:31	11-217-06	7
HZ-MW-34:5.75	11-217-08	21
HZ-MW-34:10	11-217-09	18
HZ-MW-34:20	11-217-11	16





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:

11-217

Company: **Kane Environmental**
 Project Number: **62302**
 Project Name: **BSC**
 Project Manager: **Vance Atkins**
 Sampled by: **JJ**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	HZ-MW-34:20	11/23/16	1438	Soil	4
12	HZ-MW-34:25		1445		

Method	Result
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
	Kane Environmental	11/22/16	1515	
	OSE	11/22/16	1515	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 3, 2017

Vance Atkins
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1612-216

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on December 29, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 3, 2017
Samples Submitted: December 29, 2016
Laboratory Reference: 1612-216
Project: 82302

Case Narrative

Samples were collected on December 29, 2016 and received by the laboratory on December 29, 2016. 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: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-6:1.5					
Laboratory ID:	12-216-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	0.0056	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	0.0056	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	0.0056	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	0.0056	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0090	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-6:1.5					
Laboratory ID:	12-216-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-6:4					
Laboratory ID:	12-216-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	0.0052	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	0.0052	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	0.0052	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	0.0052	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0083	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-6:4					
Laboratory ID:	12-216-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-41:1.5					
Laboratory ID:	12-216-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	0.0055	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	0.0055	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	0.0055	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	0.0055	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-41:1.5					
Laboratory ID:	12-216-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	0.0027	0.0011	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	0.0011	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.072	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.072	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	0.36	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.36	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.072	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-131</i>				



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
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 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-41:5.5					
Laboratory ID:	12-216-04					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-41:5.5					
Laboratory ID:	12-216-04					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
<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>99</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-131</i>				



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

**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:	MB1230S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0080	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1230S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-131</i>				



Date of Report: January 3, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-216
 Project: 82302

**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:	SB1230S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0385	0.0430	0.0500	0.0500	77	86	66-127	11	15	
Benzene	0.0447	0.0486	0.0500	0.0500	89	97	76-122	8	15	
Trichloroethene	0.0452	0.0491	0.0500	0.0500	90	98	78-120	8	15	
Toluene	0.0463	0.0501	0.0500	0.0500	93	100	83-120	8	15	
Chlorobenzene	0.0431	0.0471	0.0500	0.0500	86	94	81-120	9	15	
<i>Surrogate:</i>										
Dibromofluoromethane					86	89	73-134			
Toluene-d8					92	93	81-124			
4-Bromofluorobenzene					99	101	80-131			



Date of Report: January 3, 2017
Samples Submitted: December 29, 2016
Laboratory Reference: 1612-216
Project: 82302

% MOISTURE

Date Analyzed: 12-30-16

Client ID	Lab ID	% Moisture
S-MW-6:1.5	12-216-01	5
S-MW-6:4	12-216-02	20
MW-41:1.5	12-216-03	19
MW-41:5.5	12-216-04	5





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

March 9, 2017

Vance Atkins
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1702-249

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on February 28, 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: March 9, 2017
Samples Submitted: February 28, 2017
Laboratory Reference: 1702-249
Project: 82302

Case Narrative

Samples were collected on February 28, 2017 and received by the laboratory on February 28, 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: March 9, 2017
 Samples Submitted: February 28, 2017
 Laboratory Reference: 1702-249
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-28:5					
Laboratory ID:	02-249-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Chloromethane	ND	0.0054	EPA 8260C	3-2-17	3-2-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Bromomethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Chloroethane	ND	0.0054	EPA 8260C	3-2-17	3-2-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Iodomethane	ND	0.0054	EPA 8260C	3-2-17	3-2-17	
Methylene Chloride	ND	0.0054	EPA 8260C	3-2-17	3-2-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Chloroform	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Trichloroethene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	3-2-17	3-2-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-28:5					
Laboratory ID:	02-249-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Bromoform	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	3-2-17	3-2-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	3-2-17	3-2-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-2-17	3-2-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</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:	KSB-28:7					
Laboratory ID:	02-249-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0055	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0055	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0055	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0055	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0075	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-28:7					
Laboratory ID:	02-249-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</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:	KSB-28:10					
Laboratory ID:	02-249-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0056	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0056	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0056	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0056	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-28:10					
Laboratory ID:	02-249-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</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:	KSB-28:12					
Laboratory ID:	02-249-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-28:12					
Laboratory ID:	02-249-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</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:	KSB-28:15					
Laboratory ID:	02-249-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0051	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0051	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0051	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0051	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-28:15					
Laboratory ID:	02-249-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
<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>117</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:	KSB-29:7					
Laboratory ID:	02-249-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.0050	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.020	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-29:7					
Laboratory ID:	02-249-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	0.43	0.064	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</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:	KSB-29:9					
Laboratory ID:	02-249-09					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.012	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.076	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0078	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-29:9					
Laboratory ID:	02-249-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	1.1	0.073	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>110</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:	KSB-29:12					
Laboratory ID:	02-249-10					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	0.0029	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	0.0012	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.15	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.47	0.12	EPA 8260C	3-7-17	3-7-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-29:12					
Laboratory ID:	02-249-10					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	21	0.12	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
<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>102</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:	KSB-29:14.5					
Laboratory ID:	02-249-11					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0049	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	0.18	0.12	EPA 8260C	3-7-17	3-7-17	
Bromomethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0049	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	0.013	0.00097	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0049	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0049	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	0.018	0.00097	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	4.4	0.12	EPA 8260C	3-7-17	3-7-17	
Bromochloromethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.040	0.00097	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-29:14.5					
Laboratory ID:	02-249-11					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	0.072	0.062	EPA 8260C	3-7-17	3-9-17	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	3-3-17	3-3-17	
<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>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-131</i>				



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 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-30:6					
Laboratory ID:	02-249-13					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.047	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.062	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-30:6					
Laboratory ID:	02-249-13					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	4.5	0.29	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>100</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:	KSB-30:10					
Laboratory ID:	02-249-14					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.0034	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.0094	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-30:10					
Laboratory ID:	02-249-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	6.1	0.70	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-30:13.5					
Laboratory ID:	02-249-15					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0046	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0046	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0046	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0046	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.013	0.00091	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.015	0.00091	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-30:13.5					
Laboratory ID:	02-249-15					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	12	0.55	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	3-3-17	3-3-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-30:15					
Laboratory ID:	02-249-16					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.0065	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.0075	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-30:15					
Laboratory ID:	02-249-16					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	2.4	0.32	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
<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>115</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:	KSB-31:7					
Laboratory ID:	02-249-19					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.024	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.13	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0071	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-31:7					
Laboratory ID:	02-249-19					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	1.4	0.13	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</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:	KSB-31:10					
Laboratory ID:	02-249-20					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.0050	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.0053	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0071	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-31:10					
Laboratory ID:	02-249-20					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	1.5	0.13	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</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:	KSB-31:12					
Laboratory ID:	02-249-21					
Dichlorodifluoromethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0041	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0041	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0041	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0041	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.0032	0.00082	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.0070	0.00082	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-31:12					
Laboratory ID:	02-249-21					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	1.6	0.11	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260C	3-3-17	3-3-17	
<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>106</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:	KSB-31:15					
Laboratory ID:	02-249-22					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Chloromethane	ND	0.0054	EPA 8260C	3-7-17	3-7-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Bromomethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Chloroethane	ND	0.0054	EPA 8260C	3-7-17	3-7-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Iodomethane	ND	0.0054	EPA 8260C	3-7-17	3-7-17	
Methylene Chloride	ND	0.0054	EPA 8260C	3-7-17	3-7-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Chloroform	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Trichloroethene	0.0015	0.0011	EPA 8260C	3-7-17	3-7-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	3-7-17	3-7-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-31:15					
Laboratory ID:	02-249-22					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Tetrachloroethene	0.14	0.0011	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Bromoform	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	3-7-17	3-7-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	3-7-17	3-7-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-7-17	3-7-17	
<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>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



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 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-32:7.5					
Laboratory ID:	02-249-25					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.017	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.023	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-32:7.5					
Laboratory ID:	02-249-25					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	4.5	0.71	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>113</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-32:10					
Laboratory ID:	02-249-26					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0053	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0053	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0053	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0053	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.0020	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.0038	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-32:10					
Laboratory ID:	02-249-26					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	0.82	0.066	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	3-3-17	3-3-17	
<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>108</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:	KSB-32:11.5					
Laboratory ID:	02-249-27					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0058	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0058	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0058	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0058	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	0.0014	0.0012	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	0.0029	0.0012	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0079	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-32:11.5					
Laboratory ID:	02-249-27					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	0.69	0.072	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	3-3-17	3-3-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</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:	KSB-32:15					
Laboratory ID:	02-249-28					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Chloromethane	ND	0.0049	EPA 8260C	3-7-17	3-7-17	
Vinyl Chloride	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Bromomethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Chloroethane	ND	0.0049	EPA 8260C	3-7-17	3-7-17	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Iodomethane	ND	0.0049	EPA 8260C	3-7-17	3-7-17	
Methylene Chloride	ND	0.0049	EPA 8260C	3-7-17	3-7-17	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Bromochloromethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Chloroform	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Trichloroethene	0.0028	0.00099	EPA 8260C	3-7-17	3-7-17	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Dibromomethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Bromodichloromethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	3-7-17	3-7-17	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-32:15					
Laboratory ID:	02-249-28					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Tetrachloroethene	0.049	0.00099	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Dibromochloromethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Chlorobenzene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Bromoform	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Bromobenzene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
2-Chlorotoluene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
4-Chlorotoluene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	3-7-17	3-7-17	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	3-7-17	3-7-17	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	3-7-17	3-7-17	
<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>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>104</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
Laboratory ID:	MB0302S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Chloromethane	ND	0.0050	EPA 8260C	3-2-17	3-2-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Bromomethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Chloroethane	ND	0.0050	EPA 8260C	3-2-17	3-2-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Iodomethane	ND	0.0050	EPA 8260C	3-2-17	3-2-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-2-17	3-2-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Chloroform	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-2-17	3-2-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0302S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Bromoform	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-2-17	3-2-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-2-17	3-2-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-2-17	3-2-17	
<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>117</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0303S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloromethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Iodomethane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chloroform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	3-3-17	3-3-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0303S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromoform	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-3-17	3-3-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-17	3-3-17	
<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>106</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:	MB0307S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Chloromethane	ND	0.0050	EPA 8260C	3-7-17	3-7-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Bromomethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Chloroethane	ND	0.0050	EPA 8260C	3-7-17	3-7-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Iodomethane	ND	0.0050	EPA 8260C	3-7-17	3-7-17	
Methylene Chloride	ND	0.0050	EPA 8260C	3-7-17	3-7-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Bromochloromethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Chloroform	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Trichloroethene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Dibromomethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
2-Chloroethyl Vinyl Ether	ND	0.0071	EPA 8260C	3-7-17	3-7-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0307S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Chlorobenzene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Bromoform	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Bromobenzene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-7-17	3-7-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-7-17	3-7-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-7-17	3-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>134</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>119</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>80-131</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0302S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0458	0.0508	0.0500	0.0500	92	102	66-127	10	15	
Benzene	0.0457	0.0527	0.0500	0.0500	91	105	76-122	14	15	
Trichloroethene	0.0434	0.0482	0.0500	0.0500	87	96	78-120	10	15	
Toluene	0.0443	0.0498	0.0500	0.0500	89	100	83-120	12	15	
Chlorobenzene	0.0441	0.0490	0.0500	0.0500	88	98	81-120	11	15	
<i>Surrogate:</i>										
Dibromofluoromethane					104	109	73-134			
Toluene-d8					104	107	81-124			
4-Bromofluorobenzene					100	100	80-131			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0303S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0533	0.0543	0.0500	0.0500	107	109	66-127	2	15	
Benzene	0.0527	0.0546	0.0500	0.0500	105	109	76-122	4	15	
Trichloroethene	0.0495	0.0511	0.0500	0.0500	99	102	78-120	3	15	
Toluene	0.0504	0.0524	0.0500	0.0500	101	105	83-120	4	15	
Chlorobenzene	0.0478	0.0508	0.0500	0.0500	96	102	81-120	6	15	
<i>Surrogate:</i>										
Dibromofluoromethane					117	116	73-134			
Toluene-d8					114	114	81-124			
4-Bromofluorobenzene					106	113	80-131			



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**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:	SB0307S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0460	0.0531	0.0500	0.0500	92	106	66-127	14	15	
Benzene	0.0513	0.0577	0.0500	0.0500	103	115	76-122	12	15	
Trichloroethene	0.0476	0.0541	0.0500	0.0500	95	108	78-120	13	15	
Toluene	0.0476	0.0540	0.0500	0.0500	95	108	83-120	13	15	
Chlorobenzene	0.0484	0.0536	0.0500	0.0500	97	107	81-120	10	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>113</i>	<i>115</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>108</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>109</i>	<i>110</i>	<i>80-131</i>			



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% MOISTURE

Date Analyzed: 3-3-17

Client ID	Lab ID	% Moisture
KSB-28:5	02-249-01	6
KSB-28:7	02-249-02	14
KSB-28:10	02-249-03	14
KSB-28:12	02-249-04	20
KSB-28:15	02-249-05	16
KSB-29:7	02-249-08	12
KSB-29:9	02-249-09	23
KSB-29:12	02-249-10	16
KSB-29:14.5	02-249-11	15
KSB-30:6	02-249-13	17
KSB-30:10	02-249-14	20
KSB-30:13.5	02-249-15	13
KSB-30:15	02-249-16	15
KSB-31:7	02-249-19	17
KSB-31:10	02-249-20	18
KSB-31:12	02-249-21	13
KSB-31:15	02-249-22	16
KSB-32:7.5	02-249-25	21
KSB-32:10	02-249-26	19
KSB-32:11.5	02-249-27	22
KSB-32:15	02-249-28	16





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

June 14, 2017

John Kane
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1706-098

Dear John:

Enclosed are the analytical results and associated quality control data for samples submitted on June 8, 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: June 14, 2017
Samples Submitted: June 8, 2017
Laboratory Reference: 1706-098
Project: 82302

Case Narrative

Samples were collected on June 7, 2017 and received by the laboratory on June 8, 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: June 14, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-098
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-33-6					
Laboratory ID:	06-098-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-33-6					
Laboratory ID:	06-098-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.011	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<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>111</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:	KSB-33-10					
Laboratory ID:	06-098-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-33-10					
Laboratory ID:	06-098-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.0022	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<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>103</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:	KSB-33-15					
Laboratory ID:	06-098-03					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0013	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-33-15					
Laboratory ID:	06-098-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	2.6	0.13	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<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>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</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:	KSB-33-20					
Laboratory ID:	06-098-04					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0033	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-33-20					
Laboratory ID:	06-098-04					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	1.5	0.12	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>111</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:	KSB-33-25					
Laboratory ID:	06-098-05					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0047	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0047	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0047	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.0095	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-33-25					
Laboratory ID:	06-098-05					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.64	0.057	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0047	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	6-9-17	6-9-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-34-5					
Laboratory ID:	06-098-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloromethane	ND	0.0059	EPA 8260C	6-12-17	6-12-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromomethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloroethane	ND	0.0059	EPA 8260C	6-12-17	6-12-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Iodomethane	ND	0.0059	EPA 8260C	6-12-17	6-12-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-12-17	6-12-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloroform	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	6-12-17	6-12-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-34-5					
Laboratory ID:	06-098-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Tetrachloroethene	0.0090	0.0012	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromoform	ND	0.0059	EPA 8260C	6-12-17	6-12-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	6-12-17	6-12-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-34-10					
Laboratory ID:	06-098-07					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	0.0021	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-34-10					
Laboratory ID:	06-098-07					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	2.7	0.077	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<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>118</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>111</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:	KSB-34-12					
Laboratory ID:	06-098-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.017	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-34-12					
Laboratory ID:	06-098-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	26	0.72	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<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>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-34-15					
Laboratory ID:	06-098-09					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	0.0013	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.019	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-34-15					
Laboratory ID:	06-098-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	14	0.64	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<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>108</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:	KSB-34-20					
Laboratory ID:	06-098-10					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0016	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-34-20					
Laboratory ID:	06-098-10					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	2.3	0.062	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-34-25					
Laboratory ID:	06-098-11					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0056	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0056	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0056	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-34-25					
Laboratory ID:	06-098-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.56	0.063	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0056	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<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>110</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:	KSB-35-5					
Laboratory ID:	06-098-12					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloromethane	ND	0.0058	EPA 8260C	6-12-17	6-12-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromomethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloroethane	ND	0.0058	EPA 8260C	6-12-17	6-12-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Iodomethane	ND	0.0058	EPA 8260C	6-12-17	6-12-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-12-17	6-12-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloroform	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	6-12-17	6-12-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-5					
Laboratory ID:	06-098-12					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Tetrachloroethene	0.012	0.0012	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromoform	ND	0.0058	EPA 8260C	6-12-17	6-12-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	6-12-17	6-12-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-131</i>				



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 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-10					
Laboratory ID:	06-098-13					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	0.0022	0.0012	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.045	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-10					
Laboratory ID:	06-098-13					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	16	0.67	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
<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>118</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>114</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:	KSB-35-11					
Laboratory ID:	06-098-14					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0085	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-11					
Laboratory ID:	06-098-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	4.4	0.14	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<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>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</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:	KSB-35-15					
Laboratory ID:	06-098-15					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0029	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-15					
Laboratory ID:	06-098-15					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	2.5	0.14	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
<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>100</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:	KSB-35-17					
Laboratory ID:	06-098-16					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0038	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-17					
Laboratory ID:	06-098-16					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	2.9	0.14	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
<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>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>111</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:	KSB-35-20					
Laboratory ID:	06-098-17					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0042	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-20					
Laboratory ID:	06-098-17					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	1.4	0.12	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</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:	KSB-35-25					
Laboratory ID:	06-098-18					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0054	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0054	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0054	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-35-25					
Laboratory ID:	06-098-18					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.025	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0054	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</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:	KSB-36-5					
Laboratory ID:	06-098-19					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-36-5					
Laboratory ID:	06-098-19					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.0083	0.0012	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</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:	KSB-36-10					
Laboratory ID:	06-098-20					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-36-10					
Laboratory ID:	06-098-20					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.0032	0.0012	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-9-17	6-9-17	
<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>102</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:	KSB-36-15					
Laboratory ID:	06-098-21					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.0099	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-36-15					
Laboratory ID:	06-098-21					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.0012	0.00099	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</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:	KSB-36-17					
Laboratory ID:	06-098-22					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	0.0018	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.023	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-36-17					
Laboratory ID:	06-098-22					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	12	0.29	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<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>97</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:	KSB-36-20					
Laboratory ID:	06-098-23					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.017	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-36-20					
Laboratory ID:	06-098-23					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	7.1	0.32	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<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>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</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:	KSB-36-25					
Laboratory ID:	06-098-24					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0049	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0049	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0049	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.0098	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.0032	0.00098	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-36-25					
Laboratory ID:	06-098-24					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	0.73	0.14	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0049	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>97</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:	KSB-37-5					
Laboratory ID:	06-098-25					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chloromethane	ND	0.0051	EPA 8260C	6-12-17	6-12-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromomethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chloroethane	ND	0.0051	EPA 8260C	6-12-17	6-12-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Iodomethane	ND	0.0051	EPA 8260C	6-12-17	6-12-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-12-17	6-12-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chloroform	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	6-12-17	6-12-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-37-5					
Laboratory ID:	06-098-25					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Tetrachloroethene	0.0028	0.0010	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromoform	ND	0.0051	EPA 8260C	6-12-17	6-12-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	6-12-17	6-12-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
<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>105</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:	KSB-37-10					
Laboratory ID:	06-098-26					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloromethane	ND	0.0061	EPA 8260C	6-12-17	6-12-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromomethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloroethane	ND	0.0061	EPA 8260C	6-12-17	6-12-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Iodomethane	ND	0.0061	EPA 8260C	6-12-17	6-12-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-12-17	6-12-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chloroform	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	6-12-17	6-12-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-37-10					
Laboratory ID:	06-098-26					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Bromoform	ND	0.0061	EPA 8260C	6-12-17	6-12-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	6-12-17	6-12-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-12-17	6-12-17	
<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>103</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:	KSB-37-15					
Laboratory ID:	06-098-27					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Chloromethane	ND	0.0056	EPA 8260C	6-12-17	6-12-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Bromomethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Chloroethane	ND	0.0056	EPA 8260C	6-12-17	6-12-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Iodomethane	ND	0.0056	EPA 8260C	6-12-17	6-12-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-12-17	6-12-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Chloroform	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	6-12-17	6-12-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-37-15					
Laboratory ID:	06-098-27					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Bromoform	ND	0.0056	EPA 8260C	6-12-17	6-12-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	6-12-17	6-12-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-12-17	6-12-17	
<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>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:	KSB-37-20					
Laboratory ID:	06-098-28					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Chloromethane	ND	0.0048	EPA 8260C	6-12-17	6-12-17	
Vinyl Chloride	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Bromomethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Chloroethane	ND	0.0048	EPA 8260C	6-12-17	6-12-17	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Iodomethane	ND	0.0048	EPA 8260C	6-12-17	6-12-17	
Methylene Chloride	ND	0.0096	EPA 8260C	6-12-17	6-12-17	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Bromochloromethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Chloroform	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Trichloroethene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Dibromomethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Bromodichloromethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	6-12-17	6-12-17	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-37-20					
Laboratory ID:	06-098-28					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Tetrachloroethene	0.0012	0.00096	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Dibromochloromethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Chlorobenzene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Bromoform	ND	0.0048	EPA 8260C	6-12-17	6-12-17	
Bromobenzene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
2-Chlorotoluene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
4-Chlorotoluene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	6-12-17	6-12-17	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	6-12-17	6-12-17	
<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>103</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</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:	KSB-37-25					
Laboratory ID:	06-098-29					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	0.015	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-37-25					
Laboratory ID:	06-098-29					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	7.3	0.33	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0609S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0609S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>124</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>121</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0609S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloromethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Iodomethane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chloroform	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0609S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Bromoform	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-9-17	6-9-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-9-17	6-9-17	
<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>110</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0612S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chloromethane	ND	0.0050	EPA 8260C	6-12-17	6-12-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromomethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chloroethane	ND	0.0050	EPA 8260C	6-12-17	6-12-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Iodomethane	ND	0.0050	EPA 8260C	6-12-17	6-12-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-12-17	6-12-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chloroform	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-12-17	6-12-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0612S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Bromoform	ND	0.0050	EPA 8260C	6-12-17	6-12-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-12-17	6-12-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-12-17	6-12-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-12-17	6-12-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0613S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0065	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0613S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



Date of Report: June 14, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-098
 Project: 82302

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0609S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0592	0.0604	0.0500	0.0500	118	121	66-127	2	15	
Benzene	0.0578	0.0594	0.0500	0.0500	116	119	76-122	3	15	
Trichloroethene	0.0541	0.0535	0.0500	0.0500	108	107	78-120	1	15	
Toluene	0.0560	0.0564	0.0500	0.0500	112	113	83-120	1	15	
Chlorobenzene	0.0480	0.0476	0.0500	0.0500	96	95	81-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					108	110	73-134			
<i>Toluene-d8</i>					108	109	81-124			
<i>4-Bromofluorobenzene</i>					101	100	80-131			



Date of Report: June 14, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-098
 Project: 82302

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0609S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0483	0.0484	0.0500	0.0500	97	97	66-127	0	15	
Benzene	0.0483	0.0492	0.0500	0.0500	97	98	76-122	2	15	
Trichloroethene	0.0504	0.0519	0.0500	0.0500	101	104	78-120	3	15	
Toluene	0.0526	0.0525	0.0500	0.0500	105	105	83-120	0	15	
Chlorobenzene	0.0493	0.0488	0.0500	0.0500	99	98	81-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					94	97	73-134			
Toluene-d8					100	101	81-124			
4-Bromofluorobenzene					99	101	80-131			



Date of Report: June 14, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-098
 Project: 82302

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0612S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0525	0.0459	0.0500	0.0500	105	92	66-127	13	15	
Benzene	0.0525	0.0469	0.0500	0.0500	105	94	76-122	11	15	
Trichloroethene	0.0552	0.0495	0.0500	0.0500	110	99	78-120	11	15	
Toluene	0.0574	0.0513	0.0500	0.0500	115	103	83-120	11	15	
Chlorobenzene	0.0529	0.0481	0.0500	0.0500	106	96	81-120	10	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					104	99	73-134			
<i>Toluene-d8</i>					107	101	81-124			
<i>4-Bromofluorobenzene</i>					104	100	80-131			



Date of Report: June 14, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-098
 Project: 82302

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0613S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0478	0.0452	0.0500	0.0500	96	90	66-127	6	15	
Benzene	0.0480	0.0477	0.0500	0.0500	96	95	76-122	1	15	
Trichloroethene	0.0512	0.0492	0.0500	0.0500	102	98	78-120	4	15	
Toluene	0.0531	0.0519	0.0500	0.0500	106	104	83-120	2	15	
Chlorobenzene	0.0493	0.0476	0.0500	0.0500	99	95	81-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	97	73-134			
<i>Toluene-d8</i>					100	101	81-124			
<i>4-Bromofluorobenzene</i>					99	102	80-131			



Date of Report: June 14, 2017
Samples Submitted: June 8, 2017
Laboratory Reference: 1706-098
Project: 82302

% MOISTURE

Date Analyzed: 6-8-17

Client ID	Lab ID	% Moisture
KSB-33-6	06-098-01	19
KSB-33-10	06-098-02	19
KSB-33-15	06-098-03	17
KSB-33-20	06-098-04	16
KSB-33-25	06-098-05	13
KSB-34-5	06-098-06	20
KSB-34-10	06-098-07	22
KSB-34-12	06-098-08	23
KSB-34-15	06-098-09	18
KSB-34-20	06-098-10	16
KSB-34-25	06-098-11	18
KSB-35-5	06-098-12	22
KSB-35-10	06-098-13	20
KSB-35-11	06-098-14	20
KSB-35-15	06-098-15	20
KSB-35-17	06-098-16	20
KSB-35-20	06-098-17	14
KSB-35-25	06-098-18	16
KSB-36-5	06-098-19	18
KSB-36-10	06-098-20	19
KSB-36-15	06-098-21	16
KSB-36-17	06-098-22	17
KSB-36-20	06-098-23	18
KSB-36-25	06-098-24	12
KSB-37-5	06-098-25	18
KSB-37-10	06-098-26	25
KSB-37-15	06-098-27	19



Date of Report: June 14, 2017
Samples Submitted: June 8, 2017
Laboratory Reference: 1706-098
Project: 82302

% MOISTURE

Date Analyzed: 6-8-17

Client ID	Lab ID	% Moisture
KSB-37-20	06-098-28	18
KSB-37-25	06-098-29	18





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





M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Laboratory Number: **06-098**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

 (other)

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	

X % Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
1	KSR-33-6	6/7/17	11:15	S				
2			11:25					
3			11:23					
4			11:25					
5			11:30					
6	KSR-34-5		11:05					
7			11:57					
8			11:58					
9			12:00					
10			12:05					

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>[Signature]</i>	KSR	6/7/17	10:45	
Received	<i>[Signature]</i>	OPPE	6/7/17	10:45	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



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

June 20, 2017

John Kane
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1706-115

Dear John:

Enclosed are the analytical results and associated quality control data for samples submitted on June 8, 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: June 20, 2017
Samples Submitted: June 8, 2017
Laboratory Reference: 1706-115
Project: 82302

Case Narrative

Samples were collected on June 8, 2017 and received by the laboratory on June 8, 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.

Some MTCA Method A cleanup levels are non-achievable for sample KSB-44-5 due to the necessary dilution of the sample.

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



Date of Report: June 20, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-115
 Project: 82302

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-38-5					
Laboratory ID:	06-115-01					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0060	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0060	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0060	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	



Date of Report: June 20, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-115
 Project: 82302

VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-38-5					
Laboratory ID:	06-115-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	0.0020	0.0012	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0060	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
<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>107</i>	<i>80-131</i>				



Date of Report: June 20, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-115
 Project: 82302

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-38-9					
Laboratory ID:	06-115-02					
Dichlorodifluoromethane	ND	0.0021	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0061	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0061	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0061	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	



Date of Report: June 20, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-115
 Project: 82302

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-38-9					
Laboratory ID:	06-115-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0061	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-13-17	6-13-17	
<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>108</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:	KSB-38-15					
Laboratory ID:	06-115-04					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	0.0012	0.0011	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	0.049	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-38-15					
Laboratory ID:	06-115-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	15	0.61	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>134</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>120</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>119</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:	KSB-38-20					
Laboratory ID:	06-115-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0051	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0051	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0051	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-38-20					
Laboratory ID:	06-115-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	0.18	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0051	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-38-25					
Laboratory ID:	06-115-06					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.0098	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-38-25					
Laboratory ID:	06-115-06					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	0.0015	0.00098	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
<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>113</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</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:	KSB-39-5					
Laboratory ID:	06-115-07					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.0099	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-39-5					
Laboratory ID:	06-115-07					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	0.0013	0.00099	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-39-10					
Laboratory ID:	06-115-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0056	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0056	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0056	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-39-10					
Laboratory ID:	06-115-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0056	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-39-15					
Laboratory ID:	06-115-09					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0057	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0057	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0057	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-39-15					
Laboratory ID:	06-115-09					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	0.0022	0.0011	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0057	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
<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>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-39-18					
Laboratory ID:	06-115-10					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	0.0023	0.0010	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	0.0065	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	0.052	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-39-18					
Laboratory ID:	06-115-10					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	11	0.65	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>131</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>118</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>115</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:	KSB-39-20					
Laboratory ID:	06-115-11					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0075	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0075	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0075	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.015	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	0.0039	0.0015	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	0.0093	0.0015	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0075	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-39-20					
Laboratory ID:	06-115-11					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	6.5	0.14	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0075	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0075	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0075	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260C	6-13-17	6-13-17	
<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>114</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</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:	KSB-39-25					
Laboratory ID:	06-115-12					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.0098	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-39-25					
Laboratory ID:	06-115-12					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	6-14-17	6-14-17	
<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>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</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:	KSB-40-5					
Laboratory ID:	06-115-13					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0061	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0061	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0061	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-40-5					
Laboratory ID:	06-115-13					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0061	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-40-10					
Laboratory ID:	06-115-14					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0059	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0059	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0059	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-40-10					
Laboratory ID:	06-115-14					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0059	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</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:	KSB-40-15					
Laboratory ID:	06-115-15					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Chloromethane	ND	0.0071	EPA 8260C	6-14-17	6-15-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Bromomethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Chloroethane	ND	0.0071	EPA 8260C	6-14-17	6-15-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Iodomethane	ND	0.011	EPA 8260C	6-14-17	6-15-17	
Methylene Chloride	ND	0.014	EPA 8260C	6-14-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
(cis) 1,2-Dichloroethene	0.044	0.0014	EPA 8260C	6-14-17	6-15-17	
Bromochloromethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Chloroform	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Trichloroethene	0.0060	0.0014	EPA 8260C	6-14-17	6-15-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Dibromomethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.012	EPA 8260C	6-14-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-40-15					
Laboratory ID:	06-115-15					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Tetrachloroethene	0.035	0.0014	EPA 8260C	6-14-17	6-15-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Chlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Bromoform	ND	0.0071	EPA 8260C	6-14-17	6-15-17	
Bromobenzene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0071	EPA 8260C	6-14-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
Hexachlorobutadiene	ND	0.0071	EPA 8260C	6-14-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>97</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:	KSB-40-20					
Laboratory ID:	06-115-16					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	0.0072	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	0.0012	0.0011	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	0.29	0.12	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	0.068	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-40-20					
Laboratory ID:	06-115-16					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	2.7	0.12	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-13-17	6-13-17	
<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>106</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:	KSB-40-25					
Laboratory ID:	06-115-17					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Chloromethane	ND	0.0062	EPA 8260C	6-14-17	6-15-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Bromomethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Chloroethane	ND	0.0062	EPA 8260C	6-14-17	6-15-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Iodomethane	ND	0.0094	EPA 8260C	6-14-17	6-15-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-14-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
(cis) 1,2-Dichloroethene	0.0059	0.0012	EPA 8260C	6-14-17	6-15-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Chloroform	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Trichloroethene	0.0064	0.0012	EPA 8260C	6-14-17	6-15-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260C	6-14-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-40-25					
Laboratory ID:	06-115-17					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Tetrachloroethene	0.95	0.067	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Bromoform	ND	0.0062	EPA 8260C	6-14-17	6-15-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	6-14-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	6-14-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-14-17	6-15-17	
<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>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-41-5					
Laboratory ID:	06-115-18					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-41-5					
Laboratory ID:	06-115-18					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	0.0012	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<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>107</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:	KSB-41-10					
Laboratory ID:	06-115-19					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-41-10					
Laboratory ID:	06-115-19					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</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:	KSB-41-15					
Laboratory ID:	06-115-20					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0081	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-41-15					
Laboratory ID:	06-115-20					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<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>116</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:	KSB-41-20					
Laboratory ID:	06-115-21					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0079	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	0.12	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	0.094	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0085	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-41-20					
Laboratory ID:	06-115-21					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	3.6	0.13	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
<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>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>114</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:	KSB-41-23					
Laboratory ID:	06-115-22					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	0.0015	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0082	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	0.20	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	0.10	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-41-23					
Laboratory ID:	06-115-22					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	3.4	0.13	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>95</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:	KSB-41-25					
Laboratory ID:	06-115-23					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0071	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-41-25					
Laboratory ID:	06-115-23					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</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:	KSB-42-5					
Laboratory ID:	06-115-24					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0056	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0056	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0074	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-42-5					
Laboratory ID:	06-115-24					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0056	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</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:	KSB-42-10					
Laboratory ID:	06-115-25					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0060	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0060	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0079	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-42-10					
Laboratory ID:	06-115-25					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0060	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-15-17	6-15-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</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:	KSB-42-15					
Laboratory ID:	06-115-26					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0070	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0070	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.011	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.014	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.012	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-42-15					
Laboratory ID:	06-115-26					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	0.0018	0.0014	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0070	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0070	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0070	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	6-14-17	6-14-17	
<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>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</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:	KSB-42-20					
Laboratory ID:	06-115-27					
Dichlorodifluoromethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0029	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0029	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0044	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.0058	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	0.059	0.00058	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	0.045	0.00058	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-42-20					
Laboratory ID:	06-115-27					
1,1,2-Trichloroethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	4.7	0.12	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0029	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0029	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0029	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.00058	EPA 8260C	6-14-17	6-14-17	
<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>104</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:	KSB-42-25					
Laboratory ID:	06-115-28					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0055	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0055	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0084	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	0.0031	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	0.016	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0090	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-42-25					
Laboratory ID:	06-115-28					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	1.2	0.067	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0055	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<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>101</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:	KSB-43-5					
Laboratory ID:	06-115-29					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0067	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-43-5					
Laboratory ID:	06-115-29					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	0.0013	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
<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>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</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:	KSB-43-10					
Laboratory ID:	06-115-30					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0070	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-43-10					
Laboratory ID:	06-115-30					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
<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>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>108</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:	KSB-43-15					
Laboratory ID:	06-115-31					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0067	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-43-15					
Laboratory ID:	06-115-31					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
<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>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</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:	KSB-43-20					
Laboratory ID:	06-115-32					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0075	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.0099	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	0.10	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	0.069	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-43-20					
Laboratory ID:	06-115-32					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	1.8	0.12	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>96</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:	KSB-43-25					
Laboratory ID:	06-115-33					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	0.0011	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0083	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	0.32	0.060	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	0.016	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0089	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-43-25					
Laboratory ID:	06-115-33					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	0.50	0.060	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<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>103</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</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:	KSB-44-5					
Laboratory ID:	06-115-35					
Dichlorodifluoromethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.34	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.34	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.45	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.69	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.34	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.069	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-44-5					
Laboratory ID:	06-115-35					
1,1,2-Trichloroethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.34	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.069	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.34	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.34	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.069	EPA 8260C	6-15-17	6-15-17	
<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>101</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:	KSB-44-10					
Laboratory ID:	06-115-36					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Chloromethane	ND	0.0068	EPA 8260C	6-15-2017	6-15-2017	
Vinyl Chloride	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Bromomethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Chloroethane	ND	0.0068	EPA 8260C	6-15-2017	6-15-2017	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Iodomethane	ND	0.0090	EPA 8260C	6-15-2017	6-15-2017	
Methylene Chloride	ND	0.014	EPA 8260C	6-15-2017	6-15-2017	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
(cis) 1,2-Dichloroethene	0.050	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Bromochloromethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Chloroform	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Trichloroethene	0.017	0.0014	EPA 8260C	6-15-2017	6-15-2017	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Dibromomethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
Bromodichloromethane	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	6-15-2017	6-15-2017	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-15-2017	6-15-2017	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-44-10					
Laboratory ID:	06-115-36					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	0.024	0.0014	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0068	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	6-15-17	6-15-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</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:	KSB-44-15					
Laboratory ID:	06-115-37					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0083	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0089	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-44-15					
Laboratory ID:	06-115-37					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-14-17	6-14-17	
<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>104</i>	<i>80-131</i>				



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 Project: 82302

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-44-20					
Laboratory ID:	06-115-38					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0079	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0085	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-44-20					
Laboratory ID:	06-115-38					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	0.096	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
<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>99</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:	KSB-44-25					
Laboratory ID:	06-115-39					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0048	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0048	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0065	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.012	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	0.0013	0.00095	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-44-25					
Laboratory ID:	06-115-39					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	0.74	0.063	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0048	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	6-15-17	6-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</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:	KSB-45-5					
Laboratory ID:	06-115-40					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0073	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.014	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-45-5					
Laboratory ID:	06-115-40					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
<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>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</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:	KSB-45-10					
Laboratory ID:	06-115-41					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0068	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.013	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-45-10					
Laboratory ID:	06-115-41					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	6-15-17	6-15-17	
<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>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</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:	KSB-45-15					
Laboratory ID:	06-115-42					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0052	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0052	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0071	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.014	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-45-15					
Laboratory ID:	06-115-42					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0052	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
<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>106</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:	KSB-45-20					
Laboratory ID:	06-115-43					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0069	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.013	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	0.078	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	0.021	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-45-20					
Laboratory ID:	06-115-43					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	1.0	0.056	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</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:	KSB-45-25					
Laboratory ID:	06-115-44					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0055	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0055	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0075	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.014	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	0.50	0.064	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	0.070	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-45-25					
Laboratory ID:	06-115-44					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	1.1	0.064	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0055	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	6-15-17	6-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</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
Laboratory ID:	MB0613S1					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	6-13-17	6-13-17	
Chloromethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromomethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chloroethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Iodomethane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-13-17	6-13-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chloroform	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0613S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Bromoform	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-13-17	6-13-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-13-17	6-13-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>126</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>122</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
Laboratory ID:	MB0614S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0075	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0614S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>85</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>94</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
Laboratory ID:	MB0614S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloromethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Iodomethane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chloroform	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0614S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Bromoform	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-14-17	6-14-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-14-17	6-14-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0615S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0068	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.013	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0615S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>92</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
Laboratory ID:	MB0615S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloromethane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroethane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Iodomethane	ND	0.0066	EPA 8260C	6-15-17	6-15-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chloroform	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0615S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Bromoform	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-15-17	6-15-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-15-17	6-15-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>110</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
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0613S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0584	0.0592	0.0500	0.0500	117	118	66-127	1	15	
Benzene	0.0561	0.0596	0.0500	0.0500	112	119	76-122	6	15	
Trichloroethene	0.0541	0.0554	0.0500	0.0500	108	111	78-120	2	15	
Toluene	0.0556	0.0564	0.0500	0.0500	111	113	83-120	1	15	
Chlorobenzene	0.0458	0.0474	0.0500	0.0500	92	95	81-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					103	103	73-134			
<i>Toluene-d8</i>					105	104	81-124			
<i>4-Bromofluorobenzene</i>					96	95	80-131			



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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
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0614S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0414	0.0399	0.0500	0.0500	83	80	66-127	4	15	
Benzene	0.0421	0.0418	0.0500	0.0500	84	84	76-122	1	15	
Trichloroethene	0.0448	0.0432	0.0500	0.0500	90	86	78-120	4	15	
Toluene	0.0459	0.0451	0.0500	0.0500	92	90	83-120	2	15	
Chlorobenzene	0.0478	0.0489	0.0500	0.0500	96	98	81-120	2	15	
<i>Surrogate:</i>										
Dibromofluoromethane					78	74	73-134			
Toluene-d8					93	87	81-124			
4-Bromofluorobenzene					105	109	80-131			



Date of Report: June 20, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-115
 Project: 82302

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0614S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0461	0.0457	0.0500	0.0500	92	91	66-127	1	15	
Benzene	0.0483	0.0480	0.0500	0.0500	97	96	76-122	1	15	
Trichloroethene	0.0513	0.0514	0.0500	0.0500	103	103	78-120	0	15	
Toluene	0.0534	0.0544	0.0500	0.0500	107	109	83-120	2	15	
Chlorobenzene	0.0495	0.0494	0.0500	0.0500	99	99	81-120	0	15	
<i>Surrogate:</i>										
Dibromofluoromethane					96	94	73-134			
Toluene-d8					101	102	81-124			
4-Bromofluorobenzene					102	102	80-131			



Date of Report: June 20, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-115
 Project: 82302

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0615S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0460	0.0465	0.0500	0.0500	92	93	66-127	1	15	
Benzene	0.0493	0.0480	0.0500	0.0500	99	96	76-122	3	15	
Trichloroethene	0.0512	0.0518	0.0500	0.0500	102	104	78-120	1	15	
Toluene	0.0549	0.0541	0.0500	0.0500	110	108	83-120	1	15	
Chlorobenzene	0.0490	0.0486	0.0500	0.0500	98	97	81-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	93	73-134			
<i>Toluene-d8</i>					100	100	81-124			
<i>4-Bromofluorobenzene</i>					99	100	80-131			



Date of Report: June 20, 2017
 Samples Submitted: June 8, 2017
 Laboratory Reference: 1706-115
 Project: 82302

% MOISTURE

Date Analyzed: 6-9-17

Client ID	Lab ID	% Moisture
KSB-38-5	06-115-01	21
KSB-38-9	06-115-02	27
KSB-38-15	06-115-04	15
KSB-38-20	06-115-05	15
KSB-38-25	06-115-06	17
KSB-39-5	06-115-07	5
KSB-39-10	06-115-08	21
KSB-39-15	06-115-09	19
KSB-39-18	06-115-10	19
KSB-39-20	06-115-11	19
KSB-39-25	06-115-12	14
KSB-40-5	06-115-13	23
KSB-40-10	06-115-14	21
KSB-40-15	06-115-15	17
KSB-40-20	06-115-16	15
KSB-40-25	06-115-17	18
KSB-41-5	06-115-18	13
KSB-41-10	06-115-19	18
KSB-41-15	06-115-20	17
KSB-41-20	06-115-21	15
KSB-41-23	06-115-22	16
KSB-41-25	06-115-23	17
KSB-42-5	06-115-24	21
KSB-42-10	06-115-25	18
KSB-42-15	06-115-26	17
KSB-42-20	06-115-27	15
KSB-42-25	06-115-28	18



Date of Report: June 20, 2017
Samples Submitted: June 8, 2017
Laboratory Reference: 1706-115
Project: 82302

% MOISTURE

Date Analyzed: 6-9-17

Client ID	Lab ID	% Moisture
KSB-43-5	06-115-29	10
KSB-43-10	06-115-30	19
KSB-43-15	06-115-31	16
KSB-43-20	06-115-32	14
KSB-43-25	06-115-33	16
KSB-44-5	06-115-35	18
KSB-44-10	06-115-36	27
KSB-44-15	06-115-37	21
KSB-44-20	06-115-38	17
KSB-44-25	06-115-39	18
KSB-45-5	06-115-40	17
KSB-45-10	06-115-41	16
KSB-45-15	06-115-42	17
KSB-45-20	06-115-43	12
KSB-45-25	06-115-44	15





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





Mn Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Laboratory Number: **06-115**

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Company: Law Env
 Project Number: 82302
 Project Name: Sanjour Service Grn
 Project Manager: John Kars
 Sampled by: Andrew / Jonsson

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	KSTB-38-5	6/8/17	9:15	S	4
2	-9		9:25		
3	-13		9:35		
4	-15		9:40		
5	-20		9:52		
6	-25		9:00		
7	KSTB-39-5		10:23		
8	-10		10:33		
9	-15		10:45		
10	-18		10:50		

Parameter	1	2	3	4	5	6	7	8	9	10
NWTPH-HCID										
NWTPH-Gx/BTEX										
NWTPH-Gx										
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)										
Volatiles 8260C										
Halogenated Volatiles 8260C	X	X	X	X	X	X	X	X	X	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	X	X	X	X	X	X	X	X	X

Signature: [Signature]
 Company: Law Env
 Date: 6/8/17
 Time: 1720

Signature: [Signature]
 Company: Law Env
 Date: 6/8/17
 Time: 1720

Comments/Special Instructions: _____

Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



Onsite Environmental Inc.
Analytical Laboratory Testing Services
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Chain of Custody

Laboratory Number: **06-115**

Turnaround Request
(in working days)
(Check One)

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

Company: **KANS**
Project Number: **82302**
Project Name: **PORTER SUMMIT GRC**
Project Manager:

Sampled by:

Sample Identification

Date Sampled Time Sampled Matrix

Number of Containers

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
21	KSB-41-20	6/8/12	1205	S	4						X												X	
22	-23	}	1210	S	}						X												X	
23	-25		1205	S		X						X												X
24	KSB-42-5		1325	S		X						X												X
25	-10		1320	S		X						X												X
26	-15		1335	S		X						X												X
27	-20		1337	S		X						X												X
28	-25		1340	S		X						X												X
29	KSB-43-5		1400	S		X						X												X
30	" " -10		1415	S		X						X												X

Signature: *[Handwritten Signature]*

Company: **KANS**

Date: **6/8/12**

Time: **1720**

Comments/Special Instructions

Relinquished

Received

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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Chain of Custody

Laboratory Number: **06-115**

Turnaround Request (In working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (T/PH analysis 5 Days)

_____ (other)

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx <input type="checkbox"/> Acid / SG Clean-up	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	

% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions	
31	KS13-43-15	6/8/17	1417	S	4				
32	-20	}	1420	}	}	6/8/17	1720		
33	-25		1440						
34	KS13-44-4		1450						
35	-5		1500						
36	-10		1520						
37	-15		1525						
38	-20		1535						
39	-25		1540						
40	KS13-44-5		1555						

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Received	<i>[Signature]</i>	KAUS	6/8/17	1720	
Relinquished	<i>[Signature]</i>	OSSE	6/8/17	1720	
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date					

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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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: 06-115

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

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Comments/Special Instructions
41	K505-45 - 10	6/8/12	16:10	S	X	
42	- 15		16:15	I	X	
43	- 20		16:20	I	X	
44	- 25		16:25	I	X	

Signature	Company	Date	Time	Comments/Special Instructions
	KANS	6/8/12	17:20	
	DME	6/8/12	17:20	
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

June 26, 2017

John Kane
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1706-274

Dear John:

Enclosed are the analytical results and associated quality control data for samples submitted on June 23, 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: June 26, 2017
Samples Submitted: June 23, 2017
Laboratory Reference: 1706-274
Project: 82302

Case Narrative

Samples were collected on June 21, 2017 and received by the laboratory on June 22, 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 (soil) 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: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-7					
Laboratory ID:	06-274-01					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	0.0048	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	0.0048	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	0.0074	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	0.0048	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-7					
Laboratory ID:	06-274-01					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	0.012	0.00095	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	0.0048	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	6-23-17	6-23-17	
<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>110</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-131</i>				



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-10					
Laboratory ID:	06-274-02					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	0.0044	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	0.0044	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	0.0069	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	0.0044	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-10					
Laboratory ID:	06-274-02					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	0.0077	0.00089	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	0.0044	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	6-23-17	6-23-17	
<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>104</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:	KSB-46-15					
Laboratory ID:	06-274-03					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	0.0052	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	0.0052	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	0.0082	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	0.0052	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-15					
Laboratory ID:	06-274-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	0.0052	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
<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>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</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:	KSB-46-20					
Laboratory ID:	06-274-04					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	0.0070	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	0.0070	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	0.011	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	0.0070	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-20					
Laboratory ID:	06-274-04					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	0.0070	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0070	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.0070	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	6-23-17	6-23-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</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:	KSB-46-25					
Laboratory ID:	06-274-05					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	0.0062	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	0.0062	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	0.0096	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	0.0062	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-25					
Laboratory ID:	06-274-05					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	0.0062	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	6-23-17	6-23-17	
<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>109</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
Laboratory ID:	MB0623S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	0.0050	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	0.0050	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	0.0078	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	0.0050	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0623S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	0.0050	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-23-17	6-23-17	
<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>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>80-131</i>				



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0623S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0591	0.0613	0.0500	0.0500	118	123	66-127	4	15	
Benzene	0.0529	0.0538	0.0500	0.0500	106	108	76-122	2	15	
Trichloroethene	0.0527	0.0532	0.0500	0.0500	105	106	78-120	1	15	
Toluene	0.0555	0.0562	0.0500	0.0500	111	112	83-120	1	15	
Chlorobenzene	0.0503	0.0505	0.0500	0.0500	101	101	81-120	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>94</i>	<i>95</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>100</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>100</i>	<i>101</i>	<i>80-131</i>			



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-30W					
Laboratory ID:	06-274-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	2.0	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-23-17	6-23-17	



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KSB-46-30W					
Laboratory ID:	06-274-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0623W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chloromethane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Vinyl Chloride	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromomethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chloroethane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Iodomethane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Methylene Chloride	ND	2.0	EPA 8260C	6-23-17	6-23-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromochloromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chloroform	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Trichloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Dibromomethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromodichloromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	6-23-17	6-23-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	6-23-17	6-23-17	



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0623W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Tetrachloroethene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Dibromochloromethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Chlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Bromoform	ND	1.0	EPA 8260C	6-23-17	6-23-17	
Bromobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	6-23-17	6-23-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	6-23-17	6-23-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	6-23-17	6-23-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: June 26, 2017
 Samples Submitted: June 23, 2017
 Laboratory Reference: 1706-274
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0623W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	12.5	12.6	10.0	10.0	125	126	63-127	1	17	
Benzene	11.0	11.2	10.0	10.0	110	112	76-121	2	12	
Trichloroethene	9.08	9.46	10.0	10.0	91	95	64-120	4	15	
Toluene	10.4	10.9	10.0	10.0	104	109	82-120	5	13	
Chlorobenzene	9.83	10.1	10.0	10.0	98	101	80-120	3	14	
<i>Surrogate:</i>										
Dibromofluoromethane					101	106	77-129			
Toluene-d8					101	102	80-127			
4-Bromofluorobenzene					97	98	78-125			



Date of Report: June 26, 2017
Samples Submitted: June 23, 2017
Laboratory Reference: 1706-274
Project: 82302

% MOISTURE

Date Analyzed: 6-23-17

Client ID	Lab ID	% Moisture
KSB-46-7	06-274-01	8
KSB-46-10	06-274-02	14
KSB-46-15	06-274-03	19
KSB-46-20	06-274-04	20
KSB-46-25	06-274-05	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

September 19, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-184

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 15, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 19, 2016
Samples Submitted: September 15, 2016
Laboratory Reference: 1609-184
Project: 82302

Case Narrative

Samples were collected on September 13 and 14, 2016 and received by the laboratory on September 15, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 19, 2016
 Samples Submitted: September 15, 2016
 Laboratory Reference: 1609-184
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:W					
Laboratory ID:	09-184-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	0.22	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:W					
Laboratory ID:	09-184-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:W					
Laboratory ID:	09-184-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	0.34	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:W					
Laboratory ID:	09-184-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	1.6	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:W					
Laboratory ID:	09-184-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:W					
Laboratory ID:	09-184-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	6.4	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:W					
Laboratory ID:	09-184-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	0.80	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	0.24	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	21	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	1.3	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	2.4	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:W					
Laboratory ID:	09-184-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	4.9	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:W					
Laboratory ID:	09-184-05					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	2.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.54	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	2.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	4.6	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	4.7	0.40	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	3.5	0.40	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:W					
Laboratory ID:	09-184-05					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	99	0.40	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	2.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:W					
Laboratory ID:	09-184-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	0.24	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	0.62	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:W					
Laboratory ID:	09-184-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	0.67	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:W					
Laboratory ID:	09-184-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:W					
Laboratory ID:	09-184-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	0.20	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:W					
Laboratory ID:	09-184-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	0.41	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:W					
Laboratory ID:	09-184-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	2.4	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	09-184-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	09-184-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: September 19, 2016
 Samples Submitted: September 15, 2016
 Laboratory Reference: 1609-184
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0916W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloromethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromomethane	ND	0.27	EPA 8260C	9-16-16	9-16-16	
Chloroethane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Iodomethane	ND	2.3	EPA 8260C	9-16-16	9-16-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-16-16	9-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chloroform	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Trichloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromomethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	9-16-16	9-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-16-16	9-16-16	



Date of Report: September 19, 2016
 Samples Submitted: September 15, 2016
 Laboratory Reference: 1609-184
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0916W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Bromoform	ND	1.0	EPA 8260C	9-16-16	9-16-16	
Bromobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-16-16	9-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-16-16	9-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-16-16	9-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: September 19, 2016
 Samples Submitted: September 15, 2016
 Laboratory Reference: 1609-184
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0916W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.87	10.1	10.0	10.0	99	101	62-132	2	20	
Benzene	9.25	9.67	10.0	10.0	93	97	75-121	4	15	
Trichloroethene	8.70	8.51	10.0	10.0	87	85	65-115	2	15	
Toluene	10.0	10.0	10.0	10.0	100	100	78-120	0	15	
Chlorobenzene	9.93	10.2	10.0	10.0	99	102	77-118	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>94</i>	<i>100</i>	<i>71-131</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>98</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>92</i>	<i>94</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

September 21, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-209

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 16, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 21, 2016
Samples Submitted: September 16, 2016
Laboratory Reference: 1609-209
Project: 82302

Case Narrative

Samples were collected on September 15 and 16, 2016 and received by the laboratory on September 16, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:W					
Laboratory ID:	09-209-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:W					
Laboratory ID:	09-209-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
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HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:W					
Laboratory ID:	09-209-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:W					
Laboratory ID:	09-209-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:W					
Laboratory ID:	09-209-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	5.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	5.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	8.5	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	15	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Chloroform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	12	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	9-20-16	9-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:W					
Laboratory ID:	09-209-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	120	1.0	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	5.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:W					
Laboratory ID:	09-209-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:W					
Laboratory ID:	09-209-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	2.1	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	0.23	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:W					
Laboratory ID:	09-209-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	0.29	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	12	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	0.44	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	1.5	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:W					
Laboratory ID:	09-209-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	20	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	0.21	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:W					
Laboratory ID:	09-209-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:W					
Laboratory ID:	09-209-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	0.20	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-3:W					
Laboratory ID:	09-209-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	0.26	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-3:W					
Laboratory ID:	09-209-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	0.44	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	09-209-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	09-209-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0920W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloromethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroethane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Iodomethane	ND	1.7	EPA 8260C	9-20-16	9-20-16	
Methylene Chloride	ND	3.0	EPA 8260C	9-20-16	9-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chloroform	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Trichloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromomethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-20-16	9-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-20-16	9-20-16	



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0920W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Bromoform	ND	1.0	EPA 8260C	9-20-16	9-20-16	
Bromobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-20-16	9-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-20-16	9-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-20-16	9-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: September 21, 2016
 Samples Submitted: September 16, 2016
 Laboratory Reference: 1609-209
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0920W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.0	10.0	10.0	10.0	110	100	62-132	10	20	
Benzene	10.5	9.78	10.0	10.0	105	98	75-121	7	15	
Trichloroethene	9.79	8.83	10.0	10.0	98	88	65-115	10	15	
Toluene	11.0	10.3	10.0	10.0	110	103	78-120	7	15	
Chlorobenzene	10.9	10.1	10.0	10.0	109	101	77-118	8	15	
<i>Surrogate:</i>										
Dibromofluoromethane					95	99	71-131			
Toluene-d8					97	99	80-127			
4-Bromofluorobenzene					93	94	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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)

Laboratory Number: **09-209**

Company: **Kane Environmental**

Project Number: **82302**

Project Name: **BSC**

Project Manager: **Justin Vetter**

Sampled by: **JV + VA**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

 (other)

Lab ID

Date Sampled

Time Sampled

Matrix

Number of Containers

1	MW-29:W	9/15/16	1225	GW	3
2	MW-28:W		1335		
3	MW-27:W		1430		

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	

[Handwritten signature and scribbles across the table area]

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

[Signature]

9/16/16

1611

Received

[Signature]

9/16/16

1611

Relinquished

[Signature]

Received

[Signature]

Relinquished

[Signature]

Received

[Signature]

Relinquished

[Signature]

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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Environmental Inc.

Analytical Laboratory Testing Services
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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: **09-209**

Company: **Kane Environmental**
 Project Number: **82302**
 Project Name: **BSC**
 Project Manager: **Justin Vetter**
 Sampled by: **JJ**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
4	MW-35: W	9/16/16	0950	GW	3
5	MW-34: W		1125		
6	MW-33: W		1408		
7	S-MW-3: W		1517		
8	Trip Blank			Water	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
3						X												
						X												
						X												
						X												
						X												

Handwritten signature and initials across the table.

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Kane	9/16/16	1611	
<i>[Signature]</i>	Kane	8/16/16	1611	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 26, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-258

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 26, 2016
Samples Submitted: September 21, 2016
Laboratory Reference: 1609-258
Project: 82302

Case Narrative

Samples were collected on September 20, 2016 and received by the laboratory on September 21, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-258
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:W					
Laboratory ID:	09-258-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloromethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Iodomethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-22-16	9-22-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroform	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Trichloroethene	0.25	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-22-16	9-22-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:W					
Laboratory ID:	09-258-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Tetrachloroethene	11	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromoform	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Bromobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26:W					
Laboratory ID:	09-258-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloromethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Iodomethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-22-16	9-22-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(cis) 1,2-Dichloroethene	5.3	0.20	EPA 8260C	9-22-16	9-22-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroform	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Trichloroethene	0.29	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-22-16	9-22-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26:W					
Laboratory ID:	09-258-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Tetrachloroethene	13	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromoform	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Bromobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25:W					
Laboratory ID:	09-258-03					
Dichlorodifluoromethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Chloromethane	ND	100	EPA 8260C	9-22-16	9-23-16	
Vinyl Chloride	ND	20	EPA 8260C	9-22-16	9-23-16	
Bromomethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Chloroethane	ND	100	EPA 8260C	9-22-16	9-23-16	
Trichlorofluoromethane	ND	20	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloroethene	ND	20	EPA 8260C	9-22-16	9-23-16	
Iodomethane	ND	100	EPA 8260C	9-22-16	9-23-16	
Methylene Chloride	ND	200	EPA 8260C	9-22-16	9-23-16	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloroethane	ND	20	EPA 8260C	9-22-16	9-23-16	
2,2-Dichloropropane	ND	20	EPA 8260C	9-22-16	9-23-16	
(cis) 1,2-Dichloroethene	ND	20	EPA 8260C	9-22-16	9-23-16	
Bromochloromethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Chloroform	ND	20	EPA 8260C	9-22-16	9-23-16	
1,1,1-Trichloroethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Carbon Tetrachloride	ND	20	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloropropene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,2-Dichloroethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Trichloroethene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,2-Dichloropropane	ND	20	EPA 8260C	9-22-16	9-23-16	
Dibromomethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Bromodichloromethane	ND	20	EPA 8260C	9-22-16	9-23-16	
2-Chloroethyl Vinyl Ether	ND	260	EPA 8260C	9-22-16	9-23-16	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	9-22-16	9-23-16	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	9-22-16	9-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25:W					
Laboratory ID:	09-258-03					
1,1,2-Trichloroethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Tetrachloroethene	4200	50	EPA 8260C	9-23-16	9-23-16	
1,3-Dichloropropane	ND	20	EPA 8260C	9-22-16	9-23-16	
Dibromochloromethane	ND	20	EPA 8260C	9-22-16	9-23-16	
1,2-Dibromoethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Chlorobenzene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	9-22-16	9-23-16	
Bromoform	ND	100	EPA 8260C	9-22-16	9-23-16	
Bromobenzene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,1,2,2-Tetrachloroethane	ND	25	EPA 8260C	9-22-16	9-23-16	
1,2,3-Trichloropropane	ND	20	EPA 8260C	9-22-16	9-23-16	
2-Chlorotoluene	ND	20	EPA 8260C	9-22-16	9-23-16	
4-Chlorotoluene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,3-Dichlorobenzene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,4-Dichlorobenzene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,2-Dichlorobenzene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	9-22-16	9-23-16	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	9-22-16	9-23-16	
Hexachlorobutadiene	ND	20	EPA 8260C	9-22-16	9-23-16	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	9-22-16	9-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:W					
Laboratory ID:	09-258-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chloromethane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromomethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chloroethane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Iodomethane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-23-16	9-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chloroform	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Trichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Dibromomethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	9-23-16	9-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-23-16	9-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:W					
Laboratory ID:	09-258-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Tetrachloroethene	0.46	0.20	EPA 8260C	9-23-16	9-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromoform	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Bromobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1,2,2-Tetrachloroethane	ND	0.25	EPA 8260C	9-23-16	9-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-30:W					
Laboratory ID:	09-258-05					
Dichlorodifluoromethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Chloromethane	ND	2500	EPA 8260C	9-22-16	9-23-16	
Vinyl Chloride	ND	500	EPA 8260C	9-22-16	9-23-16	
Bromomethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Chloroethane	ND	2500	EPA 8260C	9-22-16	9-23-16	
Trichlorofluoromethane	ND	500	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloroethene	ND	500	EPA 8260C	9-22-16	9-23-16	
Iodomethane	ND	2500	EPA 8260C	9-22-16	9-23-16	
Methylene Chloride	ND	5000	EPA 8260C	9-22-16	9-23-16	
(trans) 1,2-Dichloroethene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloroethane	ND	500	EPA 8260C	9-22-16	9-23-16	
2,2-Dichloropropane	ND	500	EPA 8260C	9-22-16	9-23-16	
(cis) 1,2-Dichloroethene	ND	500	EPA 8260C	9-22-16	9-23-16	
Bromochloromethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Chloroform	ND	500	EPA 8260C	9-22-16	9-23-16	
1,1,1-Trichloroethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Carbon Tetrachloride	ND	500	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloropropene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,2-Dichloroethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Trichloroethene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,2-Dichloropropane	ND	500	EPA 8260C	9-22-16	9-23-16	
Dibromomethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Bromodichloromethane	ND	500	EPA 8260C	9-22-16	9-23-16	
2-Chloroethyl Vinyl Ether	ND	6500	EPA 8260C	9-22-16	9-23-16	
(cis) 1,3-Dichloropropene	ND	500	EPA 8260C	9-22-16	9-23-16	
(trans) 1,3-Dichloropropene	ND	500	EPA 8260C	9-22-16	9-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-30:W					
Laboratory ID:	09-258-05					
1,1,2-Trichloroethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Tetrachloroethene	92000	500	EPA 8260C	9-22-16	9-23-16	
1,3-Dichloropropane	ND	500	EPA 8260C	9-22-16	9-23-16	
Dibromochloromethane	ND	500	EPA 8260C	9-22-16	9-23-16	
1,2-Dibromoethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Chlorobenzene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,1,1,2-Tetrachloroethane	ND	500	EPA 8260C	9-22-16	9-23-16	
Bromoform	ND	2500	EPA 8260C	9-22-16	9-23-16	
Bromobenzene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,1,2,2-Tetrachloroethane	ND	630	EPA 8260C	9-22-16	9-23-16	
1,2,3-Trichloropropane	ND	500	EPA 8260C	9-22-16	9-23-16	
2-Chlorotoluene	ND	500	EPA 8260C	9-22-16	9-23-16	
4-Chlorotoluene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,3-Dichlorobenzene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,4-Dichlorobenzene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,2-Dichlorobenzene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,2-Dibromo-3-chloropropane	ND	2500	EPA 8260C	9-22-16	9-23-16	
1,2,4-Trichlorobenzene	ND	500	EPA 8260C	9-22-16	9-23-16	
Hexachlorobutadiene	ND	500	EPA 8260C	9-22-16	9-23-16	
1,2,3-Trichlorobenzene	ND	500	EPA 8260C	9-22-16	9-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:W					
Laboratory ID:	09-258-06					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Chloromethane	ND	2.0	EPA 8260C	9-22-16	9-22-16	
Vinyl Chloride	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Bromomethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Chloroethane	ND	2.0	EPA 8260C	9-22-16	9-22-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Iodomethane	ND	2.0	EPA 8260C	9-22-16	9-22-16	
Methylene Chloride	ND	4.0	EPA 8260C	9-22-16	9-22-16	
(trans) 1,2-Dichloroethene	0.68	0.40	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
(cis) 1,2-Dichloroethene	26	0.40	EPA 8260C	9-22-16	9-22-16	
Bromochloromethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Chloroform	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Trichloroethene	7.0	0.40	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Dibromomethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Bromodichloromethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	9-22-16	9-22-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-22-16	9-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:W					
Laboratory ID:	09-258-06					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Tetrachloroethene	47	0.40	EPA 8260C	9-22-16	9-22-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Dibromochloromethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Chlorobenzene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Bromoform	ND	2.0	EPA 8260C	9-22-16	9-22-16	
Bromobenzene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	9-22-16	9-22-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	9-22-16	9-22-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	9-22-16	9-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:W					
Laboratory ID:	09-258-07					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Chloromethane	ND	5.0	EPA 8260C	9-22-16	9-23-16	
Vinyl Chloride	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Bromomethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Chloroethane	ND	5.0	EPA 8260C	9-22-16	9-23-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Iodomethane	ND	5.0	EPA 8260C	9-22-16	9-23-16	
Methylene Chloride	ND	10	EPA 8260C	9-22-16	9-23-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Bromochloromethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Chloroform	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Trichloroethene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Dibromomethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Bromodichloromethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
2-Chloroethyl Vinyl Ether	ND	13	EPA 8260C	9-22-16	9-23-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	9-22-16	9-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:W					
Laboratory ID:	09-258-07					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Tetrachloroethene	150	1.0	EPA 8260C	9-22-16	9-23-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Dibromochloromethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Chlorobenzene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Bromoform	ND	5.0	EPA 8260C	9-22-16	9-23-16	
Bromobenzene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,1,2,2-Tetrachloroethane	ND	1.3	EPA 8260C	9-22-16	9-23-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	9-22-16	9-23-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	9-22-16	9-23-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	9-22-16	9-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0922W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloromethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Iodomethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-22-16	9-22-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroform	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Trichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-22-16	9-22-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0922W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromoform	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Bromobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0923W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chloromethane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromomethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chloroethane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Iodomethane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-23-16	9-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chloroform	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Trichloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Dibromomethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
2-Chloroethyl Vinyl Ether	ND	2.6	EPA 8260C	9-23-16	9-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-23-16	9-23-16	



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-258
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0923W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Bromoform	ND	1.0	EPA 8260C	9-23-16	9-23-16	
Bromobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,1,2,2-Tetrachloroethane	ND	0.25	EPA 8260C	9-23-16	9-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-23-16	9-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-23-16	9-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-23-16	9-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-258
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0922W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.82	9.22	10.0	10.0	98	92	62-132	6	20	
Benzene	9.61	9.10	10.0	10.0	96	91	75-121	5	15	
Trichloroethene	8.47	7.98	10.0	10.0	85	80	65-115	6	15	
Toluene	9.50	9.13	10.0	10.0	95	91	78-120	4	15	
Chlorobenzene	8.84	8.68	10.0	10.0	88	87	77-118	2	15	
<i>Surrogate:</i>										
Dibromofluoromethane					105	100	71-131			
Toluene-d8					102	100	80-127			
4-Bromofluorobenzene					106	96	80-125			



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-258
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0923W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.3	9.86	10.0	10.0	103	99	62-132	4	20	
Benzene	10.1	9.86	10.0	10.0	101	99	75-121	2	15	
Trichloroethene	9.33	8.90	10.0	10.0	93	89	65-115	5	15	
Toluene	10.7	10.3	10.0	10.0	107	103	78-120	4	15	
Chlorobenzene	10.5	10.1	10.0	10.0	105	101	77-118	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					95	99	71-131			
Toluene-d8					100	101	80-127			
4-Bromofluorobenzene					93	95	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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) 893-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
TPH analysis 5 Days)

_____ (other)

Laboratory Number: **09-258**

Company: Kane Environmental
 Project Number: 82302
 Project Name: BSC
 Project Manager: Justin Vetter
 Sampled by: JJ

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-31:W	9/20/16	0930	GW	3
2	MW-26:W		1108		
3	MW-25:W		1220		
4	MW-23:W		1332		
5	MW-30:W		1423		
6	S-MW-2:W		1505		
7	S-MW-1:W		1551		

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	MW-31:W	9/20/16	0930	GW	3						X													
2	MW-26:W		1108								X													
3	MW-25:W		1220								X													
4	MW-23:W		1332								X													
5	MW-30:W		1423								X													
6	S-MW-2:W		1505								X													
7	S-MW-1:W		1551								X													

Signature: *[Handwritten Signature]*
 Company: Kane Environmental
 Date: 9/21/16
 Time: 11:10
 Comments/Special Instructions: *[Handwritten Signature]*

Relinquished: *[Handwritten Signature]*
 Received: *[Handwritten Signature]*
 Relinquished: *[Handwritten Signature]*
 Received: *[Handwritten Signature]*
 Relinquished: *[Handwritten Signature]*
 Received: *[Handwritten Signature]*
 Relinquished: *[Handwritten Signature]*
 Reviewed/Date: *[Handwritten Signature]*

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 26, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-259

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 26, 2016
Samples Submitted: September 21, 2016
Laboratory Reference: 1609-259
Project: 82302

Case Narrative

Samples were collected on September 19, 2016 and received by the laboratory on September 21, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:W					
Laboratory ID:	09-259-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloromethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Iodomethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-21-16	9-21-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroform	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Trichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	9-21-16	9-21-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:W					
Laboratory ID:	09-259-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Tetrachloroethene	1.3	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromoform	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Bromobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-125</i>				



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:W					
Laboratory ID:	09-259-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloromethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Iodomethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-21-16	9-21-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroform	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Trichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	9-21-16	9-21-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:W					
Laboratory ID:	09-259-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Tetrachloroethene	2.5	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromoform	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Bromobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-37:W					
Laboratory ID:	09-259-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloromethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Iodomethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-21-16	9-21-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroform	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Trichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	9-21-16	9-21-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-37:W					
Laboratory ID:	09-259-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Tetrachloroethene	0.70	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromoform	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Bromobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:W					
Laboratory ID:	09-259-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloromethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Iodomethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-21-16	9-21-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroform	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Trichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	9-21-16	9-21-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:W					
Laboratory ID:	09-259-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Tetrachloroethene	1.6	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromoform	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Bromobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-32:W					
Laboratory ID:	09-259-05					
Dichlorodifluoromethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Chloromethane	ND	20	EPA 8260C	9-22-16	9-22-16	
Vinyl Chloride	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Bromomethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Chloroethane	ND	20	EPA 8260C	9-22-16	9-22-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Iodomethane	ND	20	EPA 8260C	9-22-16	9-22-16	
Methylene Chloride	ND	20	EPA 8260C	9-22-16	9-22-16	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
(cis) 1,2-Dichloroethene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Bromochloromethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Chloroform	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Trichloroethene	7.7	4.0	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Dibromomethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Bromodichloromethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
2-Chloroethyl Vinyl Ether	ND	46	EPA 8260C	9-22-16	9-22-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	9-22-16	9-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-32:W					
Laboratory ID:	09-259-05					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Tetrachloroethene	950	4.0	EPA 8260C	9-22-16	9-22-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Dibromochloromethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Chlorobenzene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Bromoform	ND	20	EPA 8260C	9-22-16	9-22-16	
Bromobenzene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	9-22-16	9-22-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	9-22-16	9-22-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
Hexachlorobutadiene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	9-22-16	9-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0921W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloromethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Iodomethane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-21-16	9-21-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chloroform	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Trichloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromomethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chloroethyl Vinyl Ether	ND	2.7	EPA 8260C	9-21-16	9-21-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-21-16	9-21-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0921W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Bromoform	ND	1.0	EPA 8260C	9-21-16	9-21-16	
Bromobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-21-16	9-21-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-21-16	9-21-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-21-16	9-21-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0922W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloromethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Iodomethane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-22-16	9-22-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chloroform	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Trichloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromomethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	9-22-16	9-22-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-22-16	9-22-16	



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0922W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Bromoform	ND	1.0	EPA 8260C	9-22-16	9-22-16	
Bromobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-22-16	9-22-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-22-16	9-22-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-22-16	9-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0921W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.4	9.85	10.0	10.0	104	99	62-132	5	20	
Benzene	10.1	9.62	10.0	10.0	101	96	75-121	5	15	
Trichloroethene	9.60	8.71	10.0	10.0	96	87	65-115	10	15	
Toluene	10.8	10.2	10.0	10.0	108	102	78-120	6	15	
Chlorobenzene	10.7	10.2	10.0	10.0	107	102	77-118	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					93	99	71-131			
Toluene-d8					98	99	80-127			
4-Bromofluorobenzene					91	98	80-125			



Date of Report: September 26, 2016
 Samples Submitted: September 21, 2016
 Laboratory Reference: 1609-259
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0922W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.0	9.57	10.0	10.0	100	96	62-132	4	20	
Benzene	9.60	9.71	10.0	10.0	96	97	75-121	1	15	
Trichloroethene	8.65	8.67	10.0	10.0	87	87	65-115	0	15	
Toluene	9.89	10.1	10.0	10.0	99	101	78-120	2	15	
Chlorobenzene	10.0	10.1	10.0	10.0	100	101	77-118	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					94	98	71-131			
<i>Toluene-d8</i>					96	98	80-127			
<i>4-Bromofluorobenzene</i>					92	96	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

September 30, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-307

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 30, 2016
Samples Submitted: September 23, 2016
Laboratory Reference: 1609-307
Project: 82302

Case Narrative

Samples were collected on September 21, 2016 and received by the laboratory on September 23, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-307
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1:W					
Laboratory ID:	09-307-01					
Dichlorodifluoromethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Chloromethane	ND	250	EPA 8260C	9-26-16	9-26-16	
Vinyl Chloride	160	50	EPA 8260C	9-26-16	9-26-16	
Bromomethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Chloroethane	ND	250	EPA 8260C	9-26-16	9-26-16	
Trichlorofluoromethane	ND	50	EPA 8260C	9-26-16	9-26-16	
1,1-Dichloroethene	ND	50	EPA 8260C	9-26-16	9-26-16	
Iodomethane	ND	250	EPA 8260C	9-26-16	9-26-16	
Methylene Chloride	ND	250	EPA 8260C	9-26-16	9-26-16	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,1-Dichloroethane	ND	50	EPA 8260C	9-26-16	9-26-16	
2,2-Dichloropropane	ND	50	EPA 8260C	9-26-16	9-26-16	
(cis) 1,2-Dichloroethene	610	50	EPA 8260C	9-26-16	9-26-16	
Bromochloromethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Chloroform	ND	50	EPA 8260C	9-26-16	9-26-16	
1,1,1-Trichloroethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Carbon Tetrachloride	ND	50	EPA 8260C	9-26-16	9-26-16	
1,1-Dichloropropene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,2-Dichloroethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Trichloroethene	170	50	EPA 8260C	9-26-16	9-26-16	
1,2-Dichloropropane	ND	50	EPA 8260C	9-26-16	9-26-16	
Dibromomethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Bromodichloromethane	ND	50	EPA 8260C	9-26-16	9-26-16	
2-Chloroethyl Vinyl Ether	ND	730	EPA 8260C	9-26-16	9-26-16	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	9-26-16	9-26-16	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	9-26-16	9-26-16	



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1:W					
Laboratory ID:	09-307-01					
1,1,2-Trichloroethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Tetrachloroethene	6700	50	EPA 8260C	9-26-16	9-26-16	
1,3-Dichloropropane	ND	50	EPA 8260C	9-26-16	9-26-16	
Dibromochloromethane	ND	50	EPA 8260C	9-26-16	9-26-16	
1,2-Dibromoethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Chlorobenzene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	9-26-16	9-26-16	
Bromoform	ND	250	EPA 8260C	9-26-16	9-26-16	
Bromobenzene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,1,2,2-Tetrachloroethane	ND	65	EPA 8260C	9-26-16	9-26-16	
1,2,3-Trichloropropane	ND	50	EPA 8260C	9-26-16	9-26-16	
2-Chlorotoluene	ND	50	EPA 8260C	9-26-16	9-26-16	
4-Chlorotoluene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,3-Dichlorobenzene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,4-Dichlorobenzene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,2-Dichlorobenzene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,2-Dibromo-3-chloropropane	ND	250	EPA 8260C	9-26-16	9-26-16	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	9-26-16	9-26-16	
Hexachlorobutadiene	ND	50	EPA 8260C	9-26-16	9-26-16	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	9-26-16	9-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
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HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	09-307-02					
Dichlorodifluoromethane	ND	26	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	100	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	20	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	100	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	20	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	100	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	100	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	20	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	20	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	1300	20	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	20	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	160	20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	20	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	20	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	380	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	9-28-16	9-28-16	



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	09-307-02					
1,1,2-Trichloroethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	3800	20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	20	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	100	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	28	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	20	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	20	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	20	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-307
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20:W					
Laboratory ID:	09-307-03					
Dichlorodifluoromethane	ND	2.6	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	9.0	2.0	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	10	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	120	2.0	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	45	2.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	38	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	9-28-16	9-28-16	



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-307
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20:W					
Laboratory ID:	09-307-03					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	190	2.0	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	10	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	2.8	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5:W					
Laboratory ID:	09-307-04					
Dichlorodifluoromethane	ND	13	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	50	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	10	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	50	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	10	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	10	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	50	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	50	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	10	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	10	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	35	10	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	10	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	10	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	39	10	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	10	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	10	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	190	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	9-28-16	9-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5:W					
Laboratory ID:	09-307-04					
1,1,2-Trichloroethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	910	10	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	10	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	10	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	50	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	14	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	10	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	10	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	10	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14:W					
Laboratory ID:	09-307-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14:W					
Laboratory ID:	09-307-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	0.91	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	0.32	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19:W					
Laboratory ID:	09-307-06					
Dichlorodifluoromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Vinyl Chloride	34	10	EPA 8260C	9-29-16	9-30-16	
Bromomethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Trichlorofluoromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethene	ND	10	EPA 8260C	9-29-16	9-30-16	
Iodomethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Methylene Chloride	ND	50	EPA 8260C	9-29-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
2,2-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
(cis) 1,2-Dichloroethene	490	10	EPA 8260C	9-29-16	9-30-16	
Bromochloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloroform	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,1-Trichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Carbon Tetrachloride	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Trichloroethene	84	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
Dibromomethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromodichloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	190	EPA 8260C	9-29-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19:W					
Laboratory ID:	09-307-06					
1,1,2-Trichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Tetrachloroethene	1800	20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
Dibromochloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromoethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromoform	ND	50	EPA 8260C	9-29-16	9-30-16	
Bromobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	13	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
2-Chlorotoluene	ND	10	EPA 8260C	9-29-16	9-30-16	
4-Chlorotoluene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,3-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,4-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
Hexachlorobutadiene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-1:W					
Laboratory ID:	09-307-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-1:W					
Laboratory ID:	09-307-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	7.2	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0926W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Chloromethane	ND	1.0	EPA 8260C	9-26-16	9-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Bromomethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Chloroethane	ND	1.0	EPA 8260C	9-26-16	9-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Iodomethane	ND	1.0	EPA 8260C	9-26-16	9-26-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-26-16	9-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Chloroform	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Trichloroethene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Dibromomethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
2-Chloroethyl Vinyl Ether	ND	2.9	EPA 8260C	9-26-16	9-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-26-16	9-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0926W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Bromoform	ND	1.0	EPA 8260C	9-26-16	9-26-16	
Bromobenzene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-26-16	9-26-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-26-16	9-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-26-16	9-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-26-16	9-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0928W1					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0928W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	0.28	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0929W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0929W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0926W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.43	10.0	10.0	10.0	94	100	62-132	6	20	
Benzene	9.87	10.0	10.0	10.0	99	100	75-121	1	15	
Trichloroethene	9.12	8.83	10.0	10.0	91	88	65-115	3	15	
Toluene	10.5	10.2	10.0	10.0	105	102	78-120	3	15	
Chlorobenzene	10.5	10.0	10.0	10.0	105	100	77-118	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>89</i>	<i>98</i>	<i>71-131</i>			
<i>Toluene-d8</i>					<i>97</i>	<i>98</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>90</i>	<i>94</i>	<i>80-125</i>			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0928W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.80	9.28	10.0	10.0	98	93	62-132	5	20	
Benzene	9.85	9.62	10.0	10.0	99	96	75-121	2	15	
Trichloroethene	9.14	8.60	10.0	10.0	91	86	65-115	6	15	
Toluene	10.5	10.0	10.0	10.0	105	100	78-120	5	15	
Chlorobenzene	10.3	9.83	10.0	10.0	103	98	77-118	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					92	98	71-131			
<i>Toluene-d8</i>					101	103	80-127			
<i>4-Bromofluorobenzene</i>					92	95	80-125			



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 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0929W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.7	10.7	10.0	10.0	97	107	62-132	10	20	
Benzene	10.2	11.4	10.0	10.0	102	114	75-121	11	15	
Trichloroethene	9.0	10.1	10.0	10.0	90	101	65-115	12	15	
Toluene	10.6	11.7	10.0	10.0	106	117	78-120	10	15	
Chlorobenzene	10.1	11.4	10.0	10.0	101	114	77-118	12	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	96	71-131			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					86	84	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

September 30, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-308

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 30, 2016
Samples Submitted: September 23, 2016
Laboratory Reference: 1609-308
Project: 82302

Case Narrative

Samples were collected on September 22, 2016 and received by the laboratory on September 23, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-308
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22:W					
Laboratory ID:	09-308-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	1.5	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



Date of Report: September 30, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22:W					
Laboratory ID:	09-308-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	11	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	0.45	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: September 30, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8:W					
Laboratory ID:	09-308-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	25	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	6.2	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



Date of Report: September 30, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8:W					
Laboratory ID:	09-308-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	50	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-308
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9:W					
Laboratory ID:	09-308-03					
Dichlorodifluoromethane	ND	650	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	2500	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	500	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	2500	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	500	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	500	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	2500	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	2500	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	500	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	500	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	ND	500	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	500	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	500	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	500	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	500	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	9500	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	500	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	500	EPA 8260C	9-28-16	9-28-16	



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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9:W					
Laboratory ID:	09-308-03					
1,1,2-Trichloroethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	53000	500	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	500	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	500	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	500	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	2500	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	700	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	500	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	500	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	2500	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	500	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	500	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	500	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12:W					
Laboratory ID:	09-308-04					
Dichlorodifluoromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Vinyl Chloride	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromomethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Trichlorofluoromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethene	ND	10	EPA 8260C	9-29-16	9-30-16	
Iodomethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Methylene Chloride	ND	50	EPA 8260C	9-29-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
2,2-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
(cis) 1,2-Dichloroethene	730	10	EPA 8260C	9-29-16	9-30-16	
Bromochloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloroform	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,1-Trichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Carbon Tetrachloride	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Trichloroethene	140	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
Dibromomethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromodichloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	190	EPA 8260C	9-29-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	



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 Laboratory Reference: 1609-308
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12:W					
Laboratory ID:	09-308-04					
1,1,2-Trichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Tetrachloroethene	1100	10	EPA 8260C	9-29-16	9-30-16	
1,3-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
Dibromochloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromoethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromoform	ND	50	EPA 8260C	9-29-16	9-30-16	
Bromobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	13	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
2-Chlorotoluene	ND	10	EPA 8260C	9-29-16	9-30-16	
4-Chlorotoluene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,3-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,4-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
Hexachlorobutadiene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	71-131				
<i>Toluene-d8</i>	95	80-127				
<i>4-Bromofluorobenzene</i>	86	80-125				



Date of Report: September 30, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-308
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4:W					
Laboratory ID:	09-308-05					
Dichlorodifluoromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Vinyl Chloride	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromomethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Trichlorofluoromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethene	ND	10	EPA 8260C	9-29-16	9-30-16	
Iodomethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Methylene Chloride	ND	50	EPA 8260C	9-29-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
2,2-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
(cis) 1,2-Dichloroethene	1300	10	EPA 8260C	9-29-16	9-30-16	
Bromochloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chloroform	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,1-Trichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Carbon Tetrachloride	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Trichloroethene	71	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
Dibromomethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromodichloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	190	EPA 8260C	9-29-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	9-29-16	9-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4:W					
Laboratory ID:	09-308-05					
1,1,2-Trichloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Tetrachloroethene	380	10	EPA 8260C	9-29-16	9-30-16	
1,3-Dichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
Dibromochloromethane	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromoethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Chlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	9-29-16	9-30-16	
Bromoform	ND	50	EPA 8260C	9-29-16	9-30-16	
Bromobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	13	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichloropropane	ND	10	EPA 8260C	9-29-16	9-30-16	
2-Chlorotoluene	ND	10	EPA 8260C	9-29-16	9-30-16	
4-Chlorotoluene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,3-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,4-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
Hexachlorobutadiene	ND	10	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	9-29-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21:W					
Laboratory ID:	09-308-06					
Dichlorodifluoromethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1000	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	200	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1000	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	200	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	200	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1000	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1000	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	200	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	200	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	360	200	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	200	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	200	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	540	200	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	200	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	200	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3800	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	200	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	200	EPA 8260C	9-29-16	9-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21:W					
Laboratory ID:	09-308-06					
1,1,2-Trichloroethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	27000	200	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	200	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	200	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	200	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1000	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	260	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	200	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	200	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1000	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	200	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	200	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	200	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0928W1					
Dichlorodifluoromethane	ND	0.26	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0928W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	0.28	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0929W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0929W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0928W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.80	9.28	10.0	10.0	98	93	62-132	5	20	
Benzene	9.85	9.62	10.0	10.0	99	96	75-121	2	15	
Trichloroethene	9.14	8.60	10.0	10.0	91	86	65-115	6	15	
Toluene	10.5	10.0	10.0	10.0	105	100	78-120	5	15	
Chlorobenzene	10.3	9.83	10.0	10.0	103	98	77-118	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					92	98	71-131			
<i>Toluene-d8</i>					101	103	80-127			
<i>4-Bromofluorobenzene</i>					92	95	80-125			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0929W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.7	10.7	10.0	10.0	97	107	62-132	10	20	
Benzene	10.2	11.4	10.0	10.0	102	114	75-121	11	15	
Trichloroethene	9.0	10.1	10.0	10.0	90	101	65-115	12	15	
Toluene	10.6	11.7	10.0	10.0	106	117	78-120	10	15	
Chlorobenzene	10.1	11.4	10.0	10.0	101	114	77-118	12	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	96	71-131			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					86	84	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

October 3, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-309

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 3, 2016
Samples Submitted: September 23, 2016
Laboratory Reference: 1609-309
Project: 82302

Case Narrative

Samples were collected on September 23, 2016 and received by the laboratory on September 23, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-309
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3: W					
Laboratory ID:	09-309-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloromethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Iodomethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-30-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroform	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Trichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-30-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3: W					
Laboratory ID:	09-309-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Tetrachloroethene	0.22	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromoform	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Bromobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11: W					
Laboratory ID:	09-309-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloromethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Iodomethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-30-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(cis) 1,2-Dichloroethene	0.42	0.20	EPA 8260C	9-30-16	9-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroform	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Trichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-30-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11: W					
Laboratory ID:	09-309-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Tetrachloroethene	9.9	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromoform	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Bromobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2: W					
Laboratory ID:	09-309-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloromethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Vinyl Chloride	6.6	0.20	EPA 8260C	9-30-16	9-30-16	
Bromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethene	0.38	0.20	EPA 8260C	9-30-16	9-30-16	
Iodomethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-30-16	9-30-16	
(trans) 1,2-Dichloroethene	0.22	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(cis) 1,2-Dichloroethene	8.1	0.20	EPA 8260C	9-30-16	9-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroform	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Trichloroethene	6.6	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-30-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	



Date of Report: October 3, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2: W					
Laboratory ID:	09-309-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Tetrachloroethene	8.1	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromoform	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Bromobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6: W					
Laboratory ID:	09-309-04					
Dichlorodifluoromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Chloromethane	ND	250	EPA 8260C	9-29-16	9-30-16	
Vinyl Chloride	2400	50	EPA 8260C	9-29-16	9-30-16	
Bromomethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Chloroethane	ND	250	EPA 8260C	9-29-16	9-30-16	
Trichlorofluoromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethene	ND	50	EPA 8260C	9-29-16	9-30-16	
Iodomethane	ND	250	EPA 8260C	9-29-16	9-30-16	
Methylene Chloride	ND	250	EPA 8260C	9-29-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
2,2-Dichloropropane	ND	50	EPA 8260C	9-29-16	9-30-16	
(cis) 1,2-Dichloroethene	10000	50	EPA 8260C	9-29-16	9-30-16	
Bromochloromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Chloroform	ND	50	EPA 8260C	9-29-16	9-30-16	
1,1,1-Trichloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Carbon Tetrachloride	ND	50	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloropropene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Trichloroethene	69	50	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloropropane	ND	50	EPA 8260C	9-29-16	9-30-16	
Dibromomethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Bromodichloromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	950	EPA 8260C	9-29-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	9-29-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	9-29-16	9-30-16	



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-309
 Project: 82302

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6: W					
Laboratory ID:	09-309-04					
1,1,2-Trichloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Tetrachloroethene	240	50	EPA 8260C	9-29-16	9-30-16	
1,3-Dichloropropane	ND	50	EPA 8260C	9-29-16	9-30-16	
Dibromochloromethane	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromoethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Chlorobenzene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	9-29-16	9-30-16	
Bromoform	ND	250	EPA 8260C	9-29-16	9-30-16	
Bromobenzene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	65	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichloropropane	ND	50	EPA 8260C	9-29-16	9-30-16	
2-Chlorotoluene	ND	50	EPA 8260C	9-29-16	9-30-16	
4-Chlorotoluene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,3-Dichlorobenzene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,4-Dichlorobenzene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2-Dichlorobenzene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	250	EPA 8260C	9-29-16	9-30-16	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	9-29-16	9-30-16	
Hexachlorobutadiene	ND	50	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	9-29-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4:W					
Laboratory ID:	09-309-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloromethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Iodomethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-30-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroform	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Trichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-30-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4:W					
Laboratory ID:	09-309-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Tetrachloroethene	0.31	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromoform	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Bromobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	09-309-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloromethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Vinyl Chloride	0.26	0.20	EPA 8260C	9-30-16	9-30-16	
Bromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Iodomethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-30-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(cis) 1,2-Dichloroethene	1.3	0.20	EPA 8260C	9-30-16	9-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroform	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Trichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-30-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	09-309-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Tetrachloroethene	7.8	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromoform	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Bromobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0929W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0929W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0930W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloromethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Iodomethane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-30-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chloroform	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Trichloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromomethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-30-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-30-16	9-30-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0930W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Bromoform	ND	1.0	EPA 8260C	9-30-16	9-30-16	
Bromobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-30-16	9-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-30-16	9-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-30-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-309
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0929W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.7	10.7	10.0	10.0	97	107	62-132	10	20	
Benzene	10.2	11.4	10.0	10.0	102	114	75-121	11	15	
Trichloroethene	9.0	10.1	10.0	10.0	90	101	65-115	12	15	
Toluene	10.6	11.7	10.0	10.0	106	117	78-120	10	15	
Chlorobenzene	10.1	11.4	10.0	10.0	101	114	77-118	12	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	96	71-131			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					86	84	80-125			



Date of Report: October 3, 2016
 Samples Submitted: September 23, 2016
 Laboratory Reference: 1609-309
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0930W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	8.84	10.0	10.0	105	88	62-132	17	20	
Benzene	10.9	9.60	10.0	10.0	109	96	75-121	13	15	
Trichloroethene	9.76	8.50	10.0	10.0	98	85	65-115	14	15	
Toluene	11.1	10.0	10.0	10.0	111	100	78-120	11	15	
Chlorobenzene	10.8	9.31	10.0	10.0	108	93	77-118	15	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	103	71-131			
Toluene-d8					101	104	80-127			
4-Bromofluorobenzene					92	90	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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: **09-309**

Company: **Kare Environmental**
 Project Number: **82302**
 Project Name: **BSC**
 Project Manager: **Justin Vetter**
 Sampled by: **JJ + BH**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-3:W	9/23/16	0930	GW	3
2	MW-11:W		1013		3
3	MW-2:W		1045		3
4	MW-6:W		1135		3
5	HZ-MW-4:W		1230		3
6	MW-18:W		1313		3

Analysis	1	2	3	4	5	6
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						

Signature	Company	Date	Time	Comments/Special Instructions
	Kare Environmental	9/23/16	1407	
		9/23/16	1407	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Relinquished

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 30, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-326

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 26, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 30, 2016
Samples Submitted: September 26, 2016
Laboratory Reference: 1609-326
Project: 82302

Case Narrative

Samples were collected on September 26, 2016 and received by the laboratory on September 26, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14D:W					
Laboratory ID:	09-326-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	2.9	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	1.5	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14D:W					
Laboratory ID:	09-326-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	37	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14S:W					
Laboratory ID:	09-326-02					
Dichlorodifluoromethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Chloromethane	ND	100	EPA 8260C	9-29-16	9-30-16	
Vinyl Chloride	ND	20	EPA 8260C	9-29-16	9-30-16	
Bromomethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Chloroethane	ND	100	EPA 8260C	9-29-16	9-30-16	
Trichlorofluoromethane	ND	20	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethene	ND	20	EPA 8260C	9-29-16	9-30-16	
Iodomethane	ND	100	EPA 8260C	9-29-16	9-30-16	
Methylene Chloride	ND	100	EPA 8260C	9-29-16	9-30-16	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloroethane	ND	20	EPA 8260C	9-29-16	9-30-16	
2,2-Dichloropropane	ND	20	EPA 8260C	9-29-16	9-30-16	
(cis) 1,2-Dichloroethene	110	20	EPA 8260C	9-29-16	9-30-16	
Bromochloromethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Chloroform	ND	20	EPA 8260C	9-29-16	9-30-16	
1,1,1-Trichloroethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Carbon Tetrachloride	ND	20	EPA 8260C	9-29-16	9-30-16	
1,1-Dichloropropene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloroethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Trichloroethene	57	20	EPA 8260C	9-29-16	9-30-16	
1,2-Dichloropropane	ND	20	EPA 8260C	9-29-16	9-30-16	
Dibromomethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Bromodichloromethane	ND	20	EPA 8260C	9-29-16	9-30-16	
2-Chloroethyl Vinyl Ether	ND	380	EPA 8260C	9-29-16	9-30-16	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	9-29-16	9-30-16	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	9-29-16	9-30-16	



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14S:W					
Laboratory ID:	09-326-02					
1,1,2-Trichloroethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Tetrachloroethene	1800	20	EPA 8260C	9-29-16	9-30-16	
1,3-Dichloropropane	ND	20	EPA 8260C	9-29-16	9-30-16	
Dibromochloromethane	ND	20	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromoethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Chlorobenzene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	9-29-16	9-30-16	
Bromoform	ND	100	EPA 8260C	9-29-16	9-30-16	
Bromobenzene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,1,2,2-Tetrachloroethane	ND	26	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichloropropane	ND	20	EPA 8260C	9-29-16	9-30-16	
2-Chlorotoluene	ND	20	EPA 8260C	9-29-16	9-30-16	
4-Chlorotoluene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,3-Dichlorobenzene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,4-Dichlorobenzene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,2-Dichlorobenzene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	9-29-16	9-30-16	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	9-29-16	9-30-16	
Hexachlorobutadiene	ND	20	EPA 8260C	9-29-16	9-30-16	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	9-29-16	9-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-19:W					
Laboratory ID:	09-326-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	0.48	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	0.54	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-19:W					
Laboratory ID:	09-326-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	0.59	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

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

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0929W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloromethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Iodomethane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-29-16	9-29-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chloroform	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Trichloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromomethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chloroethyl Vinyl Ether	ND	3.9	EPA 8260C	9-29-16	9-29-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-16	9-29-16	



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0929W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Bromoform	ND	1.0	EPA 8260C	9-29-16	9-29-16	
Bromobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-16	9-29-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-16	9-29-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-16	9-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0929W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.7	10.7	10.0	10.0	97	107	62-132	10	20	
Benzene	10.2	11.4	10.0	10.0	102	114	75-121	11	15	
Trichloroethene	9.0	10.1	10.0	10.0	90	101	65-115	12	15	
Toluene	10.6	11.7	10.0	10.0	106	117	78-120	10	15	
Chlorobenzene	10.1	11.4	10.0	10.0	101	114	77-118	12	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	96	71-131			
<i>Toluene-d8</i>					102	103	80-127			
<i>4-Bromofluorobenzene</i>					86	84	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

October 6, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-326B

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 26, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 6, 2016
Samples Submitted: September 26, 2016
Laboratory Reference: 1609-326B
Project: 82302

Case Narrative

Samples were collected on September 26, 2016 and received by the laboratory on September 26, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 6, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326B
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-17:W					
Laboratory ID:	09-326-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chloromethane	ND	1.0	EPA 8260C	10-4-16	10-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromomethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chloroethane	ND	1.0	EPA 8260C	10-4-16	10-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Iodomethane	ND	2.0	EPA 8260C	10-4-16	10-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-4-16	10-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chloroform	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Trichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Dibromomethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
2-Chloroethyl Vinyl Ether	ND	12	EPA 8260C	10-4-16	10-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-4-16	10-4-16	



Date of Report: October 6, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326B
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-17:W					
Laboratory ID:	09-326-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromoform	ND	1.0	EPA 8260C	10-4-16	10-4-16	
Bromobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-4-16	10-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	10-4-16	10-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>122</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: October 6, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326B
 Project: 82302

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1004W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chloromethane	ND	1.0	EPA 8260C	10-4-16	10-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromomethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chloroethane	ND	1.0	EPA 8260C	10-4-16	10-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Iodomethane	ND	2.0	EPA 8260C	10-4-16	10-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-4-16	10-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chloroform	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Trichloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Dibromomethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
2-Chloroethyl Vinyl Ether	ND	12	EPA 8260C	10-4-16	10-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-4-16	10-4-16	



Date of Report: October 6, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

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

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1004W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Bromoform	ND	1.0	EPA 8260C	10-4-16	10-4-16	
Bromobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-4-16	10-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-4-16	10-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-4-16	10-4-16	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	10-4-16	10-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>80-125</i>				



Date of Report: October 6, 2016
 Samples Submitted: September 26, 2016
 Laboratory Reference: 1609-326
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1004W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.94	8.22	10.0	10.0	89	82	62-132	8	20	
Benzene	10.2	10.4	10.0	10.0	102	104	75-121	2	15	
Trichloroethene	9.15	9.02	10.0	10.0	92	90	65-115	1	15	
Toluene	10.5	10.4	10.0	10.0	105	104	78-120	1	15	
Chlorobenzene	10.0	9.87	10.0	10.0	100	99	77-118	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>111</i>	<i>116</i>	<i>71-131</i>			
<i>Toluene-d8</i>					<i>95</i>	<i>98</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>98</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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: **09-326**

Company: Kane Environmental
 Project Number: 82302
 Project Name: BSC
 Project Manager: Justin Vetter
 Sampled by: JJ

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	HZ-MW-14D:W	9/24/16	1010	SW	3
2	HZ-MW-14S:W		1105		3
3	HZ-MW-19:W		1200		3
4	HZ-MW-17:W		1255		3

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
3						X												
3						X												
3						X												
3						X												

[Large handwritten signature/initials across the table]

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		Kane Environmental	9/26/16	1400	please hold HZ-MW-17:W
Received			9/26/16	1400	pending results for HZ-MW-14:W
Relinquished					Added 10/4/16. DR (2 day TAT)
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

September 30, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1609-360

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on September 28, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 30, 2016
Samples Submitted: September 28, 2016
Laboratory Reference: 1609-360
Project: 82302

Case Narrative

Samples were collected on September 23, 2016 and received by the laboratory on September 28, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 30, 2016
 Samples Submitted: September 28, 2016
 Laboratory Reference: 1609-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15S-W					
Laboratory ID:	09-360-01					
Dichlorodifluoromethane	ND	0.62	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	1.4	0.40	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	1.6	0.40	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	9-28-16	9-28-16	



Date of Report: September 30, 2016
 Samples Submitted: September 28, 2016
 Laboratory Reference: 1609-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15S-W					
Laboratory ID:	09-360-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	57	0.40	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	2.0	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 28, 2016
 Laboratory Reference: 1609-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15D-W					
Laboratory ID:	09-360-02					
Dichlorodifluoromethane	ND	6.2	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	20	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	20	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	43	4.0	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	40	4.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	9-28-16	9-28-16	



Date of Report: September 30, 2016
 Samples Submitted: September 28, 2016
 Laboratory Reference: 1609-360
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-15D-W					
Laboratory ID:	09-360-02					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	840	4.0	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	20	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 28, 2016
 Laboratory Reference: 1609-360
 Project: 82302

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

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0928W2					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	9-28-16	9-28-16	
Chloromethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromomethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chloroethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Iodomethane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-28-16	9-28-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chloroform	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Trichloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Dibromomethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-28-16	9-28-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-28-16	9-28-16	



Date of Report: September 30, 2016
 Samples Submitted: September 28, 2016
 Laboratory Reference: 1609-360
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0928W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Bromoform	ND	1.0	EPA 8260C	9-28-16	9-28-16	
Bromobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-28-16	9-28-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-28-16	9-28-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-28-16	9-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: September 30, 2016
 Samples Submitted: September 28, 2016
 Laboratory Reference: 1609-360
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0928W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.3	11.8	10.0	10.0	103	118	62-132	14	20	
Benzene	10.3	11.8	10.0	10.0	103	118	75-121	14	15	
Trichloroethene	8.22	9.36	10.0	10.0	82	94	65-115	13	15	
Toluene	10.0	11.4	10.0	10.0	100	114	78-120	13	15	
Chlorobenzene	9.46	10.6	10.0	10.0	95	106	77-118	11	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					100	102	71-131			
<i>Toluene-d8</i>					104	105	80-127			
<i>4-Bromofluorobenzene</i>					107	110	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (In working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **09-360**

Company: **Kans Env**
 Project Number: **82302**
 Project Name: **Bonann Sewer CR**
 Project Manager: **J. Ventura**
 Sampled by: **Arkus**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	MW-15S-W	9/25/16	9:25	W
2	MW-15D-W	9/25/16	10:00	W

Number of Containers		Laboratory Number: 09-360																		
		NWTPH-HCID																		
		NWTPH-Gx/BTEX																		
		NWTPH-Gx																		
		NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)																		
		Volatiles 8260C																		
		Halogenated Volatiles 8260C																		
		EDB EPA 8011 (Waters Only)																		
		Semivolatiles 8270D/SIM (with low-level PAHs)																		
		PAHs 8270D/SIM (low-level)																		
		PCBs 8082A																		
		Organochlorine Pesticides 8081B																		
		Organophosphorus Pesticides 8270D/SIM																		
		Chlorinated Acid Herbicides 8151A																		
		Total RCRA Metals																		
		Total MTCA Metals																		
		TCLP Metals																		
		HEM (oil and grease) 1664A																		
		% Moisture																		

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Kans	9/25/16	10:05	
<i>[Signature]</i>	OSRE	9/28/16	11:05	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Reviewed/Date

Chromatograms with final report Electronic Data Deliverables (EDDs)

Data Package: Standard Level III Level IV



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

October 27, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-280

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 27, 2016
Samples Submitted: October 25, 2016
Laboratory Reference: 1610-280
Project: 82302

Case Narrative

Samples were collected on October 25, 2016 and received by the laboratory on October 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 27, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-280
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39:W					
Laboratory ID:	10-280-01					
Dichlorodifluoromethane	ND	0.54	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	5.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 27, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-280
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-39:W					
Laboratory ID:	10-280-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	95	0.40	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	77-129				
<i>Toluene-d8</i>	93	80-127				
<i>4-Bromofluorobenzene</i>	92	80-125				



Date of Report: October 27, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-280
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-40:W					
Laboratory ID:	10-280-02					
Dichlorodifluoromethane	ND	140	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	500	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	100	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	500	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	100	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	100	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	500	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	1300	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	100	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	100	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	ND	100	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	100	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	100	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	100	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	100	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	500	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	100	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	100	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 27, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-280
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-40:W					
Laboratory ID:	10-280-02					
1,1,2-Trichloroethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	25000	100	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	100	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	100	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	100	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	500	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	100	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	100	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	100	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	500	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	100	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	100	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	100	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: October 27, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-280
 Project: 82302

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1027W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	2.5	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 27, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-280
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1027W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: October 27, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-280
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1027W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	10.6	10.0	10.0	109	106	63-127	3	17	
Benzene	10.7	10.5	10.0	10.0	107	105	76-121	2	12	
Trichloroethene	9.57	9.21	10.0	10.0	96	92	64-114	4	15	
Toluene	10.9	10.5	10.0	10.0	109	105	82-115	4	13	
Chlorobenzene	10.8	10.4	10.0	10.0	108	104	80-115	4	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	99	77-129			
<i>Toluene-d8</i>					101	99	80-127			
<i>4-Bromofluorobenzene</i>					98	98	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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





Mn Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **10-280**

Company: **Kane Environmental.**

Project Number: **82302**

Project Name: **Bell Service Center**

Project Manager: **Justin Vetter**

Sampled by: **Brianna Kurt**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-39:W	10/25/16	12:20	W	3
2	MW-40:W	10/25/16	13:05	W	3

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	MW-39:W	10/25/16	12:20	W	3						X													
2	MW-40:W	10/25/16	13:05	W	3						X													

Signature	Company	Date	Time	Comments/Special Instructions
	Kane	10/25	4:50	
	Kane	10/25/16	16:50	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

October 28, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-267

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 28, 2016
Samples Submitted: October 25, 2016
Laboratory Reference: 1610-267
Project: 82302

Case Narrative

Samples were collected on October 24 and 25, 2016 and received by the laboratory on October 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:W					
Laboratory ID:	10-267-01					
Dichlorodifluoromethane	ND	0.54	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	5.1	0.40	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	2.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	2.4	0.40	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	69	0.40	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	20	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-2:W					
Laboratory ID:	10-267-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	35	0.40	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:W					
Laboratory ID:	10-267-02					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-1:W					
Laboratory ID:	10-267-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	17	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5:W					
Laboratory ID:	10-267-03					
Dichlorodifluoromethane	ND	5.4	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	20	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	20	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	20	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	20	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	29	4.0	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	26	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5:W					
Laboratory ID:	10-267-03					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	590	4.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	20	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	10-267-04					
Dichlorodifluoromethane	ND	5.4	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	20	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	20	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	20	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	20	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	280	4.0	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	32	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	10-267-04					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	450	4.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	20	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1027W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1027W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-267
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1027W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	10.6	10.0	10.0	109	106	63-127	3	17	
Benzene	10.7	10.5	10.0	10.0	107	105	76-121	2	12	
Trichloroethene	9.57	9.21	10.0	10.0	96	92	64-114	4	15	
Toluene	10.9	10.5	10.0	10.0	109	105	82-115	4	13	
Chlorobenzene	10.8	10.4	10.0	10.0	108	104	80-115	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					98	99	77-129			
Toluene-d8					101	99	80-127			
4-Bromofluorobenzene					98	98	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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





M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (In working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **10-267**

Company: **Kane Environmental**
 Project Number: **82302**
 Project Name: **Botell Service Center**
 Project Manager: **Justin Letten**
 Sampled by: **Brianna Hunt**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	SMW-2:W	10/24	2:50	W	3
2	S-MW-1:W	10/24/16	3:35	W	3
3	SMW MW-5:W	10/24/16	4:25	W	3
4	MW-7:W	10/25/16	9:30	W	3

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
3						X												
3						X												
3						X												
3						X												

Signature	Company	Date	Time	Comments/Special Instructions
	Kane Environmental	10/25	11:00	
	Kane Environmental	10/25/16	11:00	

Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

October 28, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-281

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 28, 2016
Samples Submitted: October 25, 2016
Laboratory Reference: 1610-281
Project: 82302

Case Narrative

Samples were collected on October 25, 2016 and received by the laboratory on October 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-281
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25:W					
Laboratory ID:	10-281-01					
Dichlorodifluoromethane	ND	1.4	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	5.0	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	5.0	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	5.0	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	5.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	9.7	1.0	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	7.4	1.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-281
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-25:W					
Laboratory ID:	10-281-01					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	99	1.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	5.0	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-281
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1:W					
Laboratory ID:	10-281-02					
Dichlorodifluoromethane	ND	2.7	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	10	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	10	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	10	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	10	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	16	2.0	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	6.6	2.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	10	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-281
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1:W					
Laboratory ID:	10-281-02					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	160	2.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	10	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
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 Project: 82302

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19:W					
Laboratory ID:	10-281-03					
Dichlorodifluoromethane	ND	68	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	250	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	61	50	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	250	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	50	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	50	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	250	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	250	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	50	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	50	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	860	50	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	50	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	50	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	140	50	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	50	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	50	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	250	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-19:W					
Laboratory ID:	10-281-03					
1,1,2-Trichloroethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	5700	50	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	50	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	50	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	250	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	50	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	50	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	50	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	250	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	50	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-281
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1027W1						
Dichlorodifluoromethane	ND	0.27	EPA 8260C	10-27-16	10-27-16	
Chloromethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Iodomethane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chloroform	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Trichloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromomethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-27-16	10-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-27-16	10-27-16	



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-281
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1027W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Bromoform	ND	1.0	EPA 8260C	10-27-16	10-27-16	
Bromobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-27-16	10-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-27-16	10-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-27-16	10-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: October 28, 2016
 Samples Submitted: October 25, 2016
 Laboratory Reference: 1610-281
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1027W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	10.6	10.0	10.0	109	106	63-127	3	17	
Benzene	10.7	10.5	10.0	10.0	107	105	76-121	2	12	
Trichloroethene	9.57	9.21	10.0	10.0	96	92	64-114	4	15	
Toluene	10.9	10.5	10.0	10.0	109	105	82-115	4	13	
Chlorobenzene	10.8	10.4	10.0	10.0	108	104	80-115	4	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>98</i>	<i>99</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>99</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>98</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

November 2, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-306

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 26, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 2, 2016
Samples Submitted: October 26, 2016
Laboratory Reference: 1610-306
Project: 82302

Case Narrative

Samples were collected on October 26, 2016 and received by the laboratory on October 26, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 2, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-306
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20:W					
Laboratory ID:	10-306-02					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	5.0	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	17	1.0	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	5.0	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	6.5	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	5.0	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	1.7	1.0	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	120	1.0	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	44	1.0	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	8.0	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-31-16	10-31-16	



Date of Report: November 2, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-306
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-20:W					
Laboratory ID:	10-306-02					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	140	1.0	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	5.0	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8:W					
Laboratory ID:	10-306-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	1.3	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	3.1	0.20	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	1.3	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8:W					
Laboratory ID:	10-306-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	5.8	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-30:W					
Laboratory ID:	10-306-04					
Dichlorodifluoromethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	5000	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	ND	1000	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	5000	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	1000	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	6500	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	5000	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	1000	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	1300	1000	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	8000	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	1000	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	1000	EPA 8260C	10-31-16	10-31-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-30:W					
Laboratory ID:	10-306-04					
1,1,2-Trichloroethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	130000	1000	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	5000	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	1000	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	1000	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	5000	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	1000	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	1000	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	1000	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12:W					
Laboratory ID:	10-306-05					
Dichlorodifluoromethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	100	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	ND	20	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	100	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	20	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	130	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	100	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	20	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	20	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	1600	20	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	20	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	230	20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	20	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	20	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	160	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	10-31-16	10-31-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-12:W					
Laboratory ID:	10-306-05					
1,1,2-Trichloroethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	1300	20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	20	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	100	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	20	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	20	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9:W					
Laboratory ID:	10-306-06					
Dichlorodifluoromethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	1500	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	ND	300	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	1500	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	300	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	300	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	2000	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	1500	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	300	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	300	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	ND	300	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	300	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	300	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	300	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	300	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	2400	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	300	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	300	EPA 8260C	10-31-16	10-31-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9:W					
Laboratory ID:	10-306-06					
1,1,2-Trichloroethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	42000	300	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	300	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	300	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	300	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	1500	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,1,2,2-Tetrachloroethane	ND	300	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	300	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	300	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	1500	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	300	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	300	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	300	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: November 2, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-306
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22:W					
Laboratory ID:	10-306-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	1.3	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	2.2	0.20	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-22:W					
Laboratory ID:	10-306-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	2.1	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: November 2, 2016
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11:W					
Laboratory ID:	10-306-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	1.3	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	



Date of Report: November 2, 2016
 Samples Submitted: October 26, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11:W					
Laboratory ID:	10-306-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	2.0	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	0.42	0.20	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: November 2, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-306
 Project: 82302

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

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1031W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloromethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroethane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Iodomethane	ND	1.3	EPA 8260C	10-31-16	10-31-16	
Methylene Chloride	ND	1.0	EPA 8260C	10-31-16	10-31-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chloroform	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Trichloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromomethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chloroethyl Vinyl Ether	ND	1.6	EPA 8260C	10-31-16	10-31-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-31-16	10-31-16	



Date of Report: November 2, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-306
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1031W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Bromoform	ND	1.0	EPA 8260C	10-31-16	10-31-16	
Bromobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-31-16	10-31-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-31-16	10-31-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-31-16	10-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: November 2, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-306
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1031W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	10.7	10.0	10.0	105	107	63-127	2	17	
Benzene	10.5	10.6	10.0	10.0	105	106	76-121	1	12	
Trichloroethene	9.43	8.96	10.0	10.0	94	90	64-114	5	15	
Toluene	10.5	10.2	10.0	10.0	105	102	82-115	3	13	
Chlorobenzene	10.0	9.60	10.0	10.0	100	96	80-115	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					100	104	77-129			
Toluene-d8					100	99	80-127			
4-Bromofluorobenzene					94	96	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

November 1, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-307

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 26, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 1, 2016
Samples Submitted: October 26, 2016
Laboratory Reference: 1610-307
Project: 82302

Case Narrative

Samples were collected on October 26, 2016 and received by the laboratory on October 26, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 1, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-307
 Project: 82302

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	10-307-01					
Total Organic Carbon	2.8	1.0	SM 5310B	10-31-16	10-31-16	
Client ID:	MW-20:W					
Laboratory ID:	10-307-02					
Total Organic Carbon	4.3	1.0	SM 5310B	10-31-16	10-31-16	
Client ID:	MW-8:W					
Laboratory ID:	10-307-03					
Total Organic Carbon	1.4	1.0	SM 5310B	10-31-16	10-31-16	
Client ID:	MW-30:W					
Laboratory ID:	10-307-04					
Total Organic Carbon	26	1.0	SM 5310B	10-31-16	10-31-16	
Client ID:	MW-12:W					
Laboratory ID:	10-307-05					
Total Organic Carbon	2.1	1.0	SM 5310B	10-31-16	10-31-16	
Client ID:	MW-9:W					
Laboratory ID:	10-307-06					
Total Organic Carbon	ND	1.0	SM 5310B	10-31-16	10-31-16	
Client ID:	MW-22:W					
Laboratory ID:	10-307-07					
Total Organic Carbon	1.2	1.0	SM 5310B	10-31-16	10-31-16	
Client ID:	MW-11:W					
Laboratory ID:	10-307-08					
Total Organic Carbon	4.2	1.0	SM 5310B	10-31-16	10-31-16	



Date of Report: November 1, 2016
 Samples Submitted: October 26, 2016
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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1031W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-31-16	10-31-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-307-02							
	ORIG	DUP						
Total Organic Carbon	4.28	4.08	NA	NA	NA	NA	5	15

MATRIX SPIKE

Laboratory ID:	10-307-02							
	MS	MS		MS				
Total Organic Carbon	15.4		10.0	4.28	111	77-126	NA	NA

SPIKE BLANK

Laboratory ID:	SB1031W1							
	SB	SB		SB				
Total Organic Carbon	11.0		10.0	NA	110	96-117	NA	NA



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg NH₃-N/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	10-307-01					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	
Client ID:	MW-20:W					
Laboratory ID:	10-307-02					
Ammonia	0.21	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	
Client ID:	MW-8:W					
Laboratory ID:	10-307-03					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	
Client ID:	MW-30:W					
Laboratory ID:	10-307-04					
Ammonia	0.15	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	
Client ID:	MW-12:W					
Laboratory ID:	10-307-05					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	
Client ID:	MW-9:W					
Laboratory ID:	10-307-06					
Ammonia	0.44	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	
Client ID:	MW-22:W					
Laboratory ID:	10-307-07					
Ammonia	0.24	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	
Client ID:	MW-11:W					
Laboratory ID:	10-307-08					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg NH₃-N/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1028W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-307-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	12	

MATRIX SPIKE								
Laboratory ID:	10-307-01							
	MS	MS		MS				
Ammonia	4.55	5.00	ND	91	80-130	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1028W1							
	SB	SB		SB				
Ammonia	4.80	5.00	NA	96	85-101	NA	NA	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	10-307-01					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	

Client ID:	MW-20:W					
Laboratory ID:	10-307-02					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	

Client ID:	MW-8:W					
Laboratory ID:	10-307-03					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	

Client ID:	MW-30:W					
Laboratory ID:	10-307-04					
Nitrate	5.7	0.10	EPA 353.2	10-27-16	10-27-16	

Client ID:	MW-12:W					
Laboratory ID:	10-307-05					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	

Client ID:	MW-9:W					
Laboratory ID:	10-307-06					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	

Client ID:	MW-22:W					
Laboratory ID:	10-307-07					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	

Client ID:	MW-11:W					
Laboratory ID:	10-307-08					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	



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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027W1					
Nitrate	ND	0.050	EPA 353.2	10-27-16	10-27-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-307-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	9	

MATRIX SPIKE								
Laboratory ID:	10-307-01							
	MS	MS		MS				
Nitrate	2.22	2.00	ND	111	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1027W1							
	SB	SB		SB				
Nitrate	2.16	2.00	NA	108	96-122	NA	NA	



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SULFATE
ASTM D516-07

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7:W					
Laboratory ID:	10-307-01					
Sulfate	22	10	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-20:W					
Laboratory ID:	10-307-02					
Sulfate	43	10	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-8:W					
Laboratory ID:	10-307-03					
Sulfate	12	5.0	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-30:W					
Laboratory ID:	10-307-04					
Sulfate	120	50	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-12:W					
Laboratory ID:	10-307-05					
Sulfate	13	5.0	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-9:W					
Laboratory ID:	10-307-06					
Sulfate	3300	1000	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-22:W					
Laboratory ID:	10-307-07					
Sulfate	ND	5.0	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-11:W					
Laboratory ID:	10-307-08					
Sulfate	24	10	ASTM D516-07	10-31-16	10-31-16	



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 Project: 82302

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1031W1					
Sulfate	ND	5.0	ASTM D516-07	10-31-16	10-31-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-307-01							
	ORIG	DUP						
Sulfate	22.4	23.8	NA	NA	NA	NA	6	10

MATRIX SPIKE								
Laboratory ID:	10-307-01							
	MS	MS		MS				
Sulfate	40.6	20.0	22.4	91	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1031W1							
	SB	SB		SB				
Sulfate	10.1	10.0	NA	101	91-113	NA	NA	



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**DISSOLVED METALS
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-307-01					
Client ID:	MW-7:W					
Iron	750	56	6010C	10-27-16	10-28-16	
Manganese	140	11	6010C	10-27-16	10-28-16	
Lab ID:	10-307-02					
Client ID:	MW-20:W					
Iron	7900	56	6010C	10-27-16	10-28-16	
Manganese	170	11	6010C	10-27-16	10-28-16	
Lab ID:	10-307-03					
Client ID:	MW-8:W					
Iron	1000	56	6010C	10-27-16	10-28-16	
Manganese	160	11	6010C	10-27-16	10-28-16	
Lab ID:	10-307-04					
Client ID:	MW-30:W					
Iron	ND	56	6010C	10-27-16	10-28-16	
Manganese	1000	11	6010C	10-27-16	10-28-16	
Lab ID:	10-307-05					
Client ID:	MW-12:W					
Iron	580	56	6010C	10-27-16	10-28-16	
Manganese	290	11	6010C	10-27-16	10-28-16	
Lab ID:	10-307-06					
Client ID:	MW-9:W					
Iron	110	56	6010C	10-27-16	10-28-16	
Manganese	79	11	6010C	10-27-16	10-28-16	



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

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

Date of Report: November 1, 2016
 Samples Submitted: October 26, 2016
 Laboratory Reference: 1610-307
 Project: 82302

**DISSOLVED METALS
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-307-07					
Client ID:	MW-22:W					
Iron	66	56	6010C	10-27-16	10-28-16	
Manganese	140	11	6010C	10-27-16	10-28-16	
Lab ID:	10-307-08					
Client ID:	MW-11:W					
Iron	740	56	6010C	10-27-16	10-28-16	
Manganese	600	11	6010C	10-27-16	10-28-16	



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**DISSOLVED METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Filtered: 10-27-16
Date Analyzed: 10-28-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1027F1

Analyte	Method	Result	PQL
Iron	6010C	ND	56
Manganese	6010C	ND	11



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Project: 82302

**DISSOLVED METALS
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Filtered: 10-27-16
Date Analyzed: 10-28-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-307-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Iron	1000	1000	0	56	
Manganese	157	157	0	11	



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 Project: 82302

**DISSOLVED METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Filtered: 10-27-16

Date Analyzed: 10-28-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-307-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Iron	22200	24300	105	24300	105	0	
Manganese	555	707	99	708	99	0	





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





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November 1, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-317

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 27, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 1, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-317
Project: 82302

Case Narrative

Samples were collected on October 27, 2016 and received by the laboratory on October 27, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 1, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-317
Project: 82302

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg NH₃-N/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	10-317-01					
Ammonia	0.16	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	

Client ID:	MW-6:W					
Laboratory ID:	10-317-02					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	



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 Project: 82302

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg NH₃-N/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1028W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-28-16	10-28-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-307-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	12	

MATRIX SPIKE								
Laboratory ID:	10-307-01							
	MS	MS		MS				
Ammonia	4.55	5.00	ND	91	80-130	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1028W1							
	SB	SB		SB				
Ammonia	4.80	5.00	NA	96	85-101	NA	NA	



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Project: 82302

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	10-317-01					
Total Organic Carbon	14	1.0	SM 5310B	10-31-16	10-31-16	

Client ID:	MW-6:W					
Laboratory ID:	10-317-02					
Total Organic Carbon	11	1.0	SM 5310B	10-31-16	10-31-16	



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 Project: 82302

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1031W1					
Total Organic Carbon	ND	1.0	SM 5310B	10-31-16	10-31-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-307-02							
	ORIG	DUP						
Total Organic Carbon	4.28	4.08	NA	NA	NA	NA	5	15

MATRIX SPIKE

Laboratory ID:	10-307-02							
	MS	MS		MS				
Total Organic Carbon	15.4	10.0	4.28	111	77-126	NA	NA	

SPIKE BLANK

Laboratory ID:	SB1031W1							
	SB	SB		SB				
Total Organic Carbon	11.0	10.0	NA	110	96-117	NA	NA	



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Project: 82302

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	10-317-01					
Nitrate	ND	0.050	EPA 353.2	10-28-16	10-28-16	

Client ID:	MW-6:W					
Laboratory ID:	10-317-02					
Nitrate	ND	0.050	EPA 353.2	10-28-16	10-28-16	



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 Project: 82302

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1028W1					
Nitrate	ND	0.050	EPA 353.2	10-28-16	10-28-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-317-02							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	9	

MATRIX SPIKE								
Laboratory ID:	10-317-02							
	MS	MS		MS				
Nitrate	2.22	2.00	ND	111	93-126	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1028W1							
	SB	SB		SB				
Nitrate	2.15	2.00	NA	108	96-122	NA	NA	



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Samples Submitted: October 27, 2016
Laboratory Reference: 1610-317
Project: 82302

SULFATE
ASTM D516-07

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	10-317-01					
Sulfate	ND	5.0	ASTM D516-07	10-31-16	10-31-16	

Client ID:	MW-6:W					
Laboratory ID:	10-317-02					
Sulfate	ND	5.0	ASTM D516-07	10-31-16	10-31-16	



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 Project: 82302

**SULFATE
 ASTM D516-07
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1031W1					
Sulfate	ND	5.0	ASTM D516-07	10-31-16	10-31-16	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-307-01							
	ORIG	DUP						
Sulfate	22.4	23.8	NA	NA	NA	NA	6	10

MATRIX SPIKE								
Laboratory ID:	10-307-01							
	MS	MS		MS				
Sulfate	40.6	20.0	22.4	91	77-129	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1031W1							
	SB	SB		SB				
Sulfate	10.1	10.0	NA	101	91-113	NA	NA	



Date of Report: November 1, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-317
 Project: 82302

**DISSOLVED METALS
 EPA 6010C**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-317-01					
Client ID:	MW-18:W					
Iron	8800	56	6010C	10-27-16	10-28-16	
Manganese	200	11	6010C	10-27-16	10-28-16	
Lab ID:	10-317-02					
Client ID:	MW-6:W					
Iron	15000	56	6010C	10-27-16	10-28-16	
Manganese	3000	11	6010C	10-27-16	10-28-16	



Date of Report: November 1, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-317
Project: 82302

**DISSOLVED METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Filtered: 10-27-16

Date Analyzed: 10-28-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB1027F1

Analyte	Method	Result	PQL
Iron	6010C	ND	56
Manganese	6010C	ND	11



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Project: 82302

**DISSOLVED METALS
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Filtered: 10-27-16
Date Analyzed: 10-28-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-307-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Iron	1000	1000	0	56	
Manganese	157	157	0	11	



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 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-317
 Project: 82302

**DISSOLVED METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Filtered: 10-27-16

Date Analyzed: 10-28-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-307-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Iron	22200	24300	105	24300	105	0	
Manganese	555	707	99	708	99	0	





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) 893-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (In working days)
 (Check One)

Laboratory Number: **10-317**

Page 1 of 1

Company: **Kane Environmental**

Project Number: **82302**

Project Name: **Bothell Service Center**

Project Manager: **Justin Vetter**

Sampled by: **Brianna Hunt & Nate Evenson**

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

_____ (other)

Lab ID Sample Identification

1 MW-18:W 10/27/16 10:30 W 4

2 MW-6:W 10/27/16 11:50 W 4

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	
TCMP Metals Ammonia-nitrogen	X
MEM (oil and grease) 1064A TOC	X
Nitrate-nitrogen	X
Sulfate	X
Soluble Iron	X
Soluble Manganese	X
% Moisture	

Signature Company Date Time Comments/Special Instructions

Relinquished Kane 10/27 5:10

Received **OSRE** 10/27/16 1710

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

November 3, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-318

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 27, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 3, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-318
Project: 82302

Case Narrative

Samples were collected on October 27, 2016 and received by the laboratory on October 27, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	10-318-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	0.47	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	2.0	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-18:W					
Laboratory ID:	10-318-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	0.59	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6:W					
Laboratory ID:	10-318-02					
Dichlorodifluoromethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	250	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	1900	50	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	250	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	50	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	50	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	330	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	250	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	50	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	50	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	9500	50	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	50	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	50	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	50	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	50	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	480	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	11-1-16	11-1-16	



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6:W					
Laboratory ID:	10-318-02					
1,1,2-Trichloroethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	50	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	50	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	250	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	50	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	50	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	50	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	330	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	50	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28:W					
Laboratory ID:	10-318-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-28:W					
Laboratory ID:	10-318-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	0.96	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	0.28	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-17:W					
Laboratory ID:	10-318-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-17:W					
Laboratory ID:	10-318-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	0.24	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29:W					
Laboratory ID:	10-318-05					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	5.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	6.6	1.0	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	5.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	6.5	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	5.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	100	1.0	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	1.6	1.0	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	9.0	1.0	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	9.5	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-29:W					
Laboratory ID:	10-318-05					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	85	1.0	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	5.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	6.5	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	77-129				
<i>Toluene-d8</i>	96	80-127				
<i>4-Bromofluorobenzene</i>	92	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:W					
Laboratory ID:	10-318-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	0.60	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	12	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	1.2	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	0.80	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-24:W					
Laboratory ID:	10-318-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	6.7	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:W					
Laboratory ID:	10-318-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-29:W					
Laboratory ID:	10-318-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	0.44	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:W					
Laboratory ID:	10-318-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-35:W					
Laboratory ID:	10-318-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	1.4	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-32:W					
Laboratory ID:	10-318-09					
Dichlorodifluoromethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	10	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	50	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	10	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	10	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	65	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	50	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	10	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	10	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	10	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	10	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	10	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	10	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	95	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-32:W					
Laboratory ID:	10-318-09					
1,1,2-Trichloroethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	1200	10	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	10	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	10	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	50	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	10	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	10	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	65	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	10	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:W					
Laboratory ID:	10-318-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	2.4	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	0.54	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-34:W					
Laboratory ID:	10-318-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	6.6	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:W					
Laboratory ID:	10-318-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-33:W					
Laboratory ID:	10-318-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	0.34	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1101W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-1-16	11-1-16	



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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:	MB1101W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	1.0	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1102W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.90	10.5	10.0	10.0	99	105	63-127	6	17	
Benzene	10.3	10.5	10.0	10.0	103	105	76-121	2	12	
Trichloroethene	9.16	8.88	10.0	10.0	92	89	64-114	3	15	
Toluene	10.3	10.1	10.0	10.0	103	101	82-115	2	13	
Chlorobenzene	9.76	9.74	10.0	10.0	98	97	80-115	0	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>99</i>	<i>105</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>101</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>93</i>	<i>97</i>	<i>80-125</i>			



Date of Report: November 3, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-318
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1102W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.2	10.6	10.0	10.0	102	106	63-127	4	17	
Benzene	10.5	10.8	10.0	10.0	105	108	76-121	3	12	
Trichloroethene	8.97	9.27	10.0	10.0	90	93	64-114	3	15	
Toluene	10.2	10.4	10.0	10.0	102	104	82-115	2	13	
Chlorobenzene	9.68	9.72	10.0	10.0	97	97	80-115	0	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	104	77-129			
<i>Toluene-d8</i>					102	102	80-127			
<i>4-Bromofluorobenzene</i>					96	99	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

November 7, 2016

John Kane
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-328

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 28, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 7, 2016
Samples Submitted: October 28, 2016
Laboratory Reference: 1610-328
Project: 82302

Case Narrative

Samples were collected on October 28, 2016 and received by the laboratory on October 28, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 7, 2016
 Samples Submitted: October 28, 2016
 Laboratory Reference: 1610-328
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15S:W					
Laboratory ID:	10-328-01					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	2.8	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	2.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	2.9	0.40	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	3.3	0.40	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	6.4	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-4-16	11-4-16	



Date of Report: November 7, 2016
 Samples Submitted: October 28, 2016
 Laboratory Reference: 1610-328
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15S:W					
Laboratory ID:	10-328-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	81	0.40	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	2.6	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	77-129				
<i>Toluene-d8</i>	98	80-127				
<i>4-Bromofluorobenzene</i>	100	80-125				



Date of Report: November 7, 2016
 Samples Submitted: October 28, 2016
 Laboratory Reference: 1610-328
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:W					
Laboratory ID:	10-328-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	0.22	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



Date of Report: November 7, 2016
 Samples Submitted: October 28, 2016
 Laboratory Reference: 1610-328
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-31:W					
Laboratory ID:	10-328-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	7.8	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	77-129				
<i>Toluene-d8</i>	96	80-127				
<i>4-Bromofluorobenzene</i>	95	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:W					
Laboratory ID:	10-328-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-38:W					
Laboratory ID:	10-328-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	0.26	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15D:W					
Laboratory ID:	10-328-04					
Dichlorodifluoromethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	140	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	100	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	100	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	100	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	200	20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	210	20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	320	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-15D:W					
Laboratory ID:	10-328-04					
1,1,2-Trichloroethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	3300	20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	100	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	130	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	85	77-129				
<i>Toluene-d8</i>	90	80-127				
<i>4-Bromofluorobenzene</i>	89	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-5:W					
Laboratory ID:	10-328-05					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	14	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	10	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	10	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	10	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	32	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-5:W					
Laboratory ID:	10-328-05					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	420	2.0	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	10	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	13	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:W					
Laboratory ID:	10-328-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-4:W					
Laboratory ID:	10-328-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	0.66	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	77-129				
<i>Toluene-d8</i>	95	80-127				
<i>4-Bromofluorobenzene</i>	99	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:W					
Laboratory ID:	10-328-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-22:W					
Laboratory ID:	10-328-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	0.46	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	0.43	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:W					
Laboratory ID:	10-328-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	0.25	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-26:W					
Laboratory ID:	10-328-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	3.3	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	0.29	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	77-129				
<i>Toluene-d8</i>	95	80-127				
<i>4-Bromofluorobenzene</i>	98	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:W					
Laboratory ID:	10-328-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-25:W					
Laboratory ID:	10-328-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	1.2	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	77-129				
<i>Toluene-d8</i>	94	80-127				
<i>4-Bromofluorobenzene</i>	99	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4:W					
Laboratory ID:	10-328-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-4:W					
Laboratory ID:	10-328-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	0.31	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	77-129				
<i>Toluene-d8</i>	94	80-127				
<i>4-Bromofluorobenzene</i>	97	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:W					
Laboratory ID:	10-328-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-27:W					
Laboratory ID:	10-328-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	0.84	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	77-129				
<i>Toluene-d8</i>	95	80-127				
<i>4-Bromofluorobenzene</i>	99	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14S:W					
Laboratory ID:	10-328-12					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	14	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	10	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	10	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	10	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	12	2.0	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	13	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	32	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14S:W					
Laboratory ID:	10-328-12					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	440	2.0	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	10	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	13	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14D:W					
Laboratory ID:	10-328-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	6.1	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	2.8	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-14D:W					
Laboratory ID:	10-328-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	55	1.0	EPA 8260C	11-7-16	11-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	0.31	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	77-129				
<i>Toluene-d8</i>	94	80-127				
<i>4-Bromofluorobenzene</i>	95	80-125				



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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1104W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloromethane	ND	1.4	EPA 8260C	11-4-16	11-4-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Iodomethane	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-4-16	11-4-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chloroform	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Trichloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromomethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	11-4-16	11-4-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-4-16	11-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1104W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Bromoform	ND	1.0	EPA 8260C	11-4-16	11-4-16	
Bromobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-4-16	11-4-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-4-16	11-4-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-4-16	11-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	92	77-129				
<i>Toluene-d8</i>	93	80-127				
<i>4-Bromofluorobenzene</i>	97	80-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1107W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Chloromethane	ND	1.4	EPA 8260C	11-7-16	11-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Bromomethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Chloroethane	ND	1.0	EPA 8260C	11-7-16	11-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Iodomethane	ND	1.0	EPA 8260C	11-7-16	11-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-7-16	11-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Chloroform	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Trichloroethene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Dibromomethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
2-Chloroethyl Vinyl Ether	ND	3.3	EPA 8260C	11-7-16	11-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-7-16	11-7-16	



Date of Report: November 7, 2016
 Samples Submitted: October 28, 2016
 Laboratory Reference: 1610-328
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1107W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Bromoform	ND	1.0	EPA 8260C	11-7-16	11-7-16	
Bromobenzene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-7-16	11-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-7-16	11-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-7-16	11-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	77-129				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	98	80-125				



Date of Report: November 7, 2016
 Samples Submitted: October 28, 2016
 Laboratory Reference: 1610-328
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1104W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.76	9.53	10.0	10.0	98	95	63-127	2	17	
Benzene	9.74	9.90	10.0	10.0	97	99	76-121	2	12	
Trichloroethene	9.26	8.73	10.0	10.0	93	87	64-114	6	15	
Toluene	10.3	10.1	10.0	10.0	103	101	82-115	2	13	
Chlorobenzene	10.4	10.5	10.0	10.0	104	105	80-115	1	14	
<i>Surrogate:</i>										
Dibromofluoromethane					88	97	77-129			
Toluene-d8					93	95	80-127			
4-Bromofluorobenzene					95	102	80-125			



Date of Report: November 7, 2016
 Samples Submitted: October 28, 2016
 Laboratory Reference: 1610-328
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1107W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.07	9.05	10.0	10.0	91	91	63-127	0	17	
Benzene	9.81	10.0	10.0	10.0	98	100	76-121	1	12	
Trichloroethene	9.34	8.97	10.0	10.0	93	90	64-114	4	15	
Toluene	10.6	10.6	10.0	10.0	106	106	82-115	0	13	
Chlorobenzene	10.5	10.3	10.0	10.0	105	103	80-115	2	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					89	95	77-129			
<i>Toluene-d8</i>					97	99	80-127			
<i>4-Bromofluorobenzene</i>					95	97	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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





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

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Laboratory Number: **10-328**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

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

Company: Kas
 Project Number: 82302
 Project Name: Bottom Sewer Gr
 Project Manager: S. USTEN
 Sampled by: Artens/Hurt

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	HZ-mw-27:W	16/28/16	1430	H2O	3
12	HZ-mw-148:W		1510		
13	HZ-mw-140:W		1540		

Signature	Company
	Kas
	ART

Date	Time
10/28/16	1425
16/28/16	1625

Comments/Special Instructions

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Reviewed/Date

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

November 3, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1610-338

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on October 31, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 3, 2016
Samples Submitted: October 31, 2016
Laboratory Reference: 1610-338
Project: 82302

Case Narrative

Samples were collected on October 31, 2016 and received by the laboratory on October 31, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-338
 Project: 82302

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:W					
Laboratory ID:	10-338-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	0.35	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-338
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-21:W					
Laboratory ID:	10-338-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	0.25	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-338
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-1:W					
Laboratory ID:	10-338-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-338
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-1:W					
Laboratory ID:	10-338-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	6.9	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	0.27	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: October 31, 2016
 Laboratory Reference: 1610-338
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:W					
Laboratory ID:	10-338-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	0.33	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-23:W					
Laboratory ID:	10-338-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	2.3	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	0.33	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-19:W					
Laboratory ID:	10-338-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	HZ-MW-19:W					
Laboratory ID:	10-338-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	0.28	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-3:W					
Laboratory ID:	10-338-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	0.27	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-3:W					
Laboratory ID:	10-338-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	1.7	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4:W					
Laboratory ID:	10-338-06					
Dichlorodifluoromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	250	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	50	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	250	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	50	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	250	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	250	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	7400	50	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	900	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	480	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4:W					
Laboratory ID:	10-338-06					
1,1,2-Trichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	3800	50	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	250	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1,1,2,2-Tetrachloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	50	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	250	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26:W					
Laboratory ID:	10-338-07					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Chloromethane	ND	10	EPA 8260C	11-3-16	11-3-16	
Vinyl Chloride	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Bromomethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Chloroethane	ND	10	EPA 8260C	11-3-16	11-3-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Iodomethane	ND	10	EPA 8260C	11-3-16	11-3-16	
Methylene Chloride	ND	10	EPA 8260C	11-3-16	11-3-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Bromochloromethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Chloroform	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Trichloroethene	2.6	2.0	EPA 8260C	11-3-16	11-3-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Dibromomethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Bromodichloromethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
2-Chloroethyl Vinyl Ether	ND	23	EPA 8260C	11-3-16	11-3-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	11-3-16	11-3-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-26:W					
Laboratory ID:	10-338-07					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Tetrachloroethene	310	10	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Dibromochloromethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Chlorobenzene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Bromoform	ND	10	EPA 8260C	11-3-16	11-3-16	
Bromobenzene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	11-3-16	11-3-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,2-Dibromo-3-chloropropane	ND	13	EPA 8260C	11-3-16	11-3-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	11-3-16	11-3-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21:W					
Laboratory ID:	10-338-08					
Dichlorodifluoromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	250	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	50	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	250	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	50	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	250	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	250	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	190	50	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	210	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	480	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	50	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	50	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-21:W					
Laboratory ID:	10-338-08					
1,1,2-Trichloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	8400	50	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	250	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	50	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	50	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	250	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	50	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	50	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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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:	MB1102W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1103W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chloromethane	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromomethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chloroethane	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Iodomethane	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-3-16	11-3-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chloroform	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Trichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Dibromomethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	11-3-16	11-3-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-3-16	11-3-16	



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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:	MB1103W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromoform	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Bromobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-3-16	11-3-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1102W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.2	10.6	10.0	10.0	102	106	63-127	4	17	
Benzene	10.5	10.8	10.0	10.0	105	108	76-121	3	12	
Trichloroethene	8.97	9.27	10.0	10.0	90	93	64-114	3	15	
Toluene	10.2	10.4	10.0	10.0	102	104	82-115	2	13	
Chlorobenzene	9.68	9.72	10.0	10.0	97	97	80-115	0	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	104	77-129			
<i>Toluene-d8</i>					102	102	80-127			
<i>4-Bromofluorobenzene</i>					96	99	80-125			



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**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
MATRIX SPIKES										
Laboratory ID:	11-016-02									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	10.3	11.4	10.0	10.0	ND	103	114	65-119	10	15
Benzene	10.7	11.4	10.0	10.0	ND	107	114	75-117	6	15
Trichloroethene	8.94	9.31	10.0	10.0	ND	89	93	66-111	4	15
Toluene	10.2	10.8	10.0	10.0	ND	102	108	79-114	6	15
Chlorobenzene	9.56	10.0	10.0	10.0	ND	96	100	76-120	4	15
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>						105	110	77-129		
<i>Toluene-d8</i>						105	102	80-127		
<i>4-Bromofluorobenzene</i>						96	95	80-125		





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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





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November 4, 2016

John Kane
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1611-010

Dear John:

Enclosed are the analytical results and associated quality control data for samples submitted on November 1, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 4, 2016
Samples Submitted: November 1, 2016
Laboratory Reference: 1611-010
Project: 82302

Case Narrative

Samples were collected on October 31 and November 1, 2016 and received by the laboratory on November 1, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 4, 2016
 Samples Submitted: November 1, 2016
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 Project: 82302

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:W					
Laboratory ID:	11-010-01					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	2.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	2.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	2.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	2.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	3.8	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	11-2-16	11-2-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-27:W					
Laboratory ID:	11-010-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	120	2.0	EPA 8260C	11-3-16	11-3-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	2.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:W					
Laboratory ID:	11-010-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-36:W					
Laboratory ID:	11-010-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	7.3	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24:W					
Laboratory ID:	11-010-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-24:W					
Laboratory ID:	11-010-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	9.0	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14:W					
Laboratory ID:	11-010-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-14:W					
Laboratory ID:	11-010-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:W					
Laboratory ID:	11-010-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10R:W					
Laboratory ID:	11-010-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	1.3	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-37:W					
Laboratory ID:	11-010-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-37:W					
Laboratory ID:	11-010-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	0.74	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	0.20	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:W					
Laboratory ID:	11-010-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-28:W					
Laboratory ID:	11-010-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:W					
Laboratory ID:	11-010-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-23:W					
Laboratory ID:	11-010-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	2.2	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2:W					
Laboratory ID:	11-010-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	11	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	0.64	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	0.26	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	10	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	6.1	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2:W					
Laboratory ID:	11-010-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	8.3	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3:W					
Laboratory ID:	11-010-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3:W					
Laboratory ID:	11-010-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1103W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chloromethane	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromomethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chloroethane	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Iodomethane	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-3-16	11-3-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chloroform	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Trichloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Dibromomethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	11-3-16	11-3-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-3-16	11-3-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1103W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Bromoform	ND	1.0	EPA 8260C	11-3-16	11-3-16	
Bromobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-3-16	11-3-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	11-3-16	11-3-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-3-16	11-3-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1102W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.2	10.6	10.0	10.0	102	106	63-127	4	17	
Benzene	10.5	10.8	10.0	10.0	105	108	76-121	3	12	
Trichloroethene	8.97	9.27	10.0	10.0	90	93	64-114	3	15	
Toluene	10.2	10.4	10.0	10.0	102	104	82-115	2	13	
Chlorobenzene	9.68	9.72	10.0	10.0	97	97	80-115	0	14	
<i>Surrogate:</i>										
Dibromofluoromethane					106	104	77-129			
Toluene-d8					102	102	80-127			
4-Bromofluorobenzene					96	99	80-125			



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**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	11-016-02										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	10.3	11.4	10.0	10.0	ND	103	114	65-119	10	15	
Benzene	10.7	11.4	10.0	10.0	ND	107	114	75-117	6	15	
Trichloroethene	8.94	9.31	10.0	10.0	ND	89	93	66-111	4	15	
Toluene	10.2	10.8	10.0	10.0	ND	102	108	79-114	6	15	
Chlorobenzene	9.56	10.0	10.0	10.0	ND	96	100	76-120	4	15	
<i>Surrogate:</i>											
Dibromofluoromethane						105	110	77-129			
Toluene-d8						105	102	80-127			
4-Bromofluorobenzene						96	95	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

November 3, 2016

Justin Vetter
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1611-021

Dear Justin:

Enclosed are the analytical results and associated quality control data for samples submitted on November 2, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: November 3, 2016
Samples Submitted: November 2, 2016
Laboratory Reference: 1611-021
Project: 82302

Case Narrative

Samples were collected on November 2, 2016 and received by the laboratory on November 2, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: November 3, 2016
 Samples Submitted: November 2, 2016
 Laboratory Reference: 1611-021
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-40:W					
Laboratory ID:	11-021-01					
Dichlorodifluoromethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	500	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	100	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	500	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	100	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	100	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	500	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	2500	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	100	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	100	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	100	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	100	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	100	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	100	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	100	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	950	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	100	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	100	EPA 8260C	11-2-16	11-2-16	



Date of Report: November 3, 2016
 Samples Submitted: November 2, 2016
 Laboratory Reference: 1611-021
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-40:W					
Laboratory ID:	11-021-01					
1,1,2-Trichloroethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	11000	100	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	100	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	100	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	100	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	500	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,1,1,2,2-Tetrachloroethane	ND	100	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	100	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	100	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	500	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	100	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	100	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	100	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: November 2, 2016
 Laboratory Reference: 1611-021
 Project: 82302

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	1.0	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	11-2-16	11-2-16	



Date of Report: November 3, 2016
 Samples Submitted: November 2, 2016
 Laboratory Reference: 1611-021
 Project: 82302

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	1.0	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: November 3, 2016
 Samples Submitted: November 2, 2016
 Laboratory Reference: 1611-021
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1102W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.2	10.6	10.0	10.0	102	106	63-127	4	17	
Benzene	10.5	10.8	10.0	10.0	105	108	76-121	3	12	
Trichloroethene	8.97	9.27	10.0	10.0	90	93	64-114	3	15	
Toluene	10.2	10.4	10.0	10.0	102	104	82-115	2	13	
Chlorobenzene	9.68	9.72	10.0	10.0	97	97	80-115	0	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	104	77-129			
<i>Toluene-d8</i>					102	102	80-127			
<i>4-Bromofluorobenzene</i>					96	99	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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

January 5, 2017

Vance Atkins
Kane Environmental, Inc.
3815 Woodland Park Avenue N., Suite 102
Seattle, WA 98103

Re: Analytical Data for Project 82302
Laboratory Reference No. 1701-006

Dear Vance:

Enclosed are the analytical results and associated quality control data for samples submitted on January 3, 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: January 5, 2017
Samples Submitted: January 3, 2017
Laboratory Reference: 1701-006
Project: 82302

Case Narrative

Samples were collected on January 3, 2017 and received by the laboratory on January 3, 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: January 5, 2017
 Samples Submitted: January 3, 2017
 Laboratory Reference: 1701-006
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-41:W					
Laboratory ID:	01-006-01					
Dichlorodifluoromethane	1.5	0.20	EPA 8260C	1-4-17	1-4-17	
Chloromethane	ND	1.7	EPA 8260C	1-4-17	1-4-17	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromomethane	ND	1.1	EPA 8260C	1-4-17	1-4-17	
Chloroethane	ND	1.0	EPA 8260C	1-4-17	1-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Iodomethane	ND	4.6	EPA 8260C	1-4-17	1-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-17	1-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chloroform	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Trichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Dibromomethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-17	1-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	



Date of Report: January 5, 2017
 Samples Submitted: January 3, 2017
 Laboratory Reference: 1701-006
 Project: 82302

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-41:W					
Laboratory ID:	01-006-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Tetrachloroethene	3.4	0.20	EPA 8260C	1-4-17	1-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromoform	ND	1.0	EPA 8260C	1-4-17	1-4-17	
Bromobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-17	1-4-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-6:W					
Laboratory ID:	01-006-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chloromethane	ND	1.7	EPA 8260C	1-4-17	1-4-17	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromomethane	ND	1.1	EPA 8260C	1-4-17	1-4-17	
Chloroethane	ND	1.0	EPA 8260C	1-4-17	1-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Iodomethane	ND	4.6	EPA 8260C	1-4-17	1-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-17	1-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chloroform	0.66	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Trichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Dibromomethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-17	1-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	S-MW-6:W					
Laboratory ID:	01-006-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromoform	ND	1.0	EPA 8260C	1-4-17	1-4-17	
Bromobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-17	1-4-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	87	77-129				
<i>Toluene-d8</i>	95	80-127				
<i>4-Bromofluorobenzene</i>	98	80-125				



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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0104W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chloromethane	ND	1.7	EPA 8260C	1-4-17	1-4-17	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromomethane	ND	1.1	EPA 8260C	1-4-17	1-4-17	
Chloroethane	ND	1.0	EPA 8260C	1-4-17	1-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Iodomethane	ND	4.6	EPA 8260C	1-4-17	1-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-17	1-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chloroform	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Trichloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Dibromomethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-17	1-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-17	1-4-17	



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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:		MB0104W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Bromoform	ND	1.0	EPA 8260C	1-4-17	1-4-17	
Bromobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-17	1-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-17	1-4-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-17	1-4-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: January 5, 2017
 Samples Submitted: January 3, 2017
 Laboratory Reference: 1701-006
 Project: 82302

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0104W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.96	8.52	10.0	10.0	80	85	63-127	7	17	
Benzene	9.23	10.1	10.0	10.0	92	101	76-121	9	12	
Trichloroethene	8.33	8.62	10.0	10.0	83	86	64-114	3	15	
Toluene	9.88	10.6	10.0	10.0	99	106	82-115	7	13	
Chlorobenzene	9.59	10.2	10.0	10.0	96	102	80-115	6	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					89	93	77-129			
<i>Toluene-d8</i>					96	97	80-127			
<i>4-Bromofluorobenzene</i>					99	102	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in 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



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**Attachment D
Terrestrial Ecological Evaluation Worksheet**



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: Simon & Son Fine Drycleaning

Facility/Site Address: 18107 Bothell Way NE, Bothell, WA

Facility/Site No: 33215922

VCP Project No.:

Step 2: IDENTIFY EVALUATOR

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

Name: Vance Atkins

Title: Sr Hydrogeologist

Organization: Kane Environmental

Mailing address: 3815 Woodland PArk Ave N, Suite 102

City: Seattle

State: WA

Zip code: 98103

Phone: 206-691-0476

Fax:

E-mail: vatkins@kane-environmental.com

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>



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**Detailed Alternative Comparison & Disproportionate Cost Analysis
Attachment E
Figure**

**BSC RI/FS
Detailed Alternative Comparison**

	Alternative 1	Alternative 2																												
Description	<p align="center">Soil Excavation and EOS Injection</p> <p>Excavation of impacted soils up to 15 feet below ground surface (bgs) beneath the subject building source area footprint. Excavation to 15 feet bgs requires dewatering. During excavation, geotechnical pilings or posts would support the building. Following soil removal, the excavations would be backfilled to grade. Some impacted soil would be left in place. EOS®, an emulsion of lactate, soybean oil and nutrients, will be injected into downgradient wells to treat chlorinated solvent contaminated groundwater.</p> <ul style="list-style-type: none"> - Will achieve the protection. - Reduces volume of impacted soil by removal of vadose zone impacted soils and shallow groundwater with highest PCE soil concentrations located in the source area. - Use of removal and off-site disposal. - Most disturbance of impacted soil and groundwater, most short-term risk. - Implementable; current use of property is vacant with full access - Excavation does not remove all impacted soil and groundwater from the site. 	<p align="center">Electrical Resistance Heating /Bioremediation/Recirculation</p> <p>No soil excavation. Source area soil and groundwater to 55 feet bgs heated to 80-100 degrees Centigrade to volatilize HVOCs in source area. Substrate will be injected into downgradient horizontal wells to treat chlorinated solvent contaminated groundwater.</p> <ul style="list-style-type: none"> - Will achieve overall protection. - Reduces volume of most contaminated soil and groundwater by ERH - Ongoing groundwater treatment with groundwater recirculation using bioremediation product - Partial disturbance of impacted soils has short-term risk during drilling. - Implementable; current use of property is vacant and bioremediation system/groundwater recirculation can be conducted during site development 																												
Area of Containment	0 square feet	0 square feet																												
Approximate Volume of Soil Removal	4,000 tons of PCE Soil	500 tons of PCE Soil																												
Compliance with MTCA Threshold Requirements	Yes – Alternative protects human health and the environment.	Yes – Alternative protects human health and the environment.																												
Restoration Time Frame	10+ years – Potential risk to workers from airborne exposure to chlorinated solvents in soil. Surrounding area includes other retail operations and residences with potential for affected by release during excavation activities. Practical due to current and future use for future tenants. May require institutional controls and hazardous substances may remain.	5 years – Practical due to current and future use for future tenants. Shortest restoration timeframe. Minimizes soil excavation to trenching only for underground piping. May require an environmental covenant with long-term monitoring.																												
Total Score	19	27																												
Total Score Summary Comparison	<p>ALTERNATIVE 1</p> <table border="1"> <caption>Alternative 1 Score Breakdown</caption> <thead> <tr><th>Criteria</th><th>Score</th></tr> </thead> <tbody> <tr><td>Protectiveness</td><td>3</td></tr> <tr><td>Permanence</td><td>3</td></tr> <tr><td>Long-Term Effectiveness</td><td>4</td></tr> <tr><td>Short-Term Risk Management</td><td>2</td></tr> <tr><td>Implementability</td><td>5</td></tr> <tr><td>Public Concerns</td><td>2</td></tr> </tbody> </table>	Criteria	Score	Protectiveness	3	Permanence	3	Long-Term Effectiveness	4	Short-Term Risk Management	2	Implementability	5	Public Concerns	2	<p>ALTERNATIVE 2</p> <table border="1"> <caption>Alternative 2 Score Breakdown</caption> <thead> <tr><th>Criteria</th><th>Score</th></tr> </thead> <tbody> <tr><td>Protectiveness</td><td>5</td></tr> <tr><td>Permanence</td><td>4</td></tr> <tr><td>Long-Term Effectiveness</td><td>4</td></tr> <tr><td>Short-Term Risk Management</td><td>5</td></tr> <tr><td>Implementability</td><td>5</td></tr> <tr><td>Public Concerns</td><td>4</td></tr> </tbody> </table>	Criteria	Score	Protectiveness	5	Permanence	4	Long-Term Effectiveness	4	Short-Term Risk Management	5	Implementability	5	Public Concerns	4
Criteria	Score																													
Protectiveness	3																													
Permanence	3																													
Long-Term Effectiveness	4																													
Short-Term Risk Management	2																													
Implementability	5																													
Public Concerns	2																													
Criteria	Score																													
Protectiveness	5																													
Permanence	4																													
Long-Term Effectiveness	4																													
Short-Term Risk Management	5																													
Implementability	5																													
Public Concerns	4																													
Criteria	Total Score ^a	Total Score ^a																												
Overall Protectiveness	3	5																												
Permanence	3	4																												
Long-Term Effectiveness	4	4																												
Short-Term Risk Management ^b	2	5																												
Implementability	5	5																												
Public Concerns	2	4																												
Total	19	27																												
Estimated Cost	\$3,100,000	\$3,600,000																												

a – Total benefit score on a scale of 1-5, with 5 being the most beneficial

b – Low risk equals high score

**BSC RI/FS
Detailed Alternative Comparison**

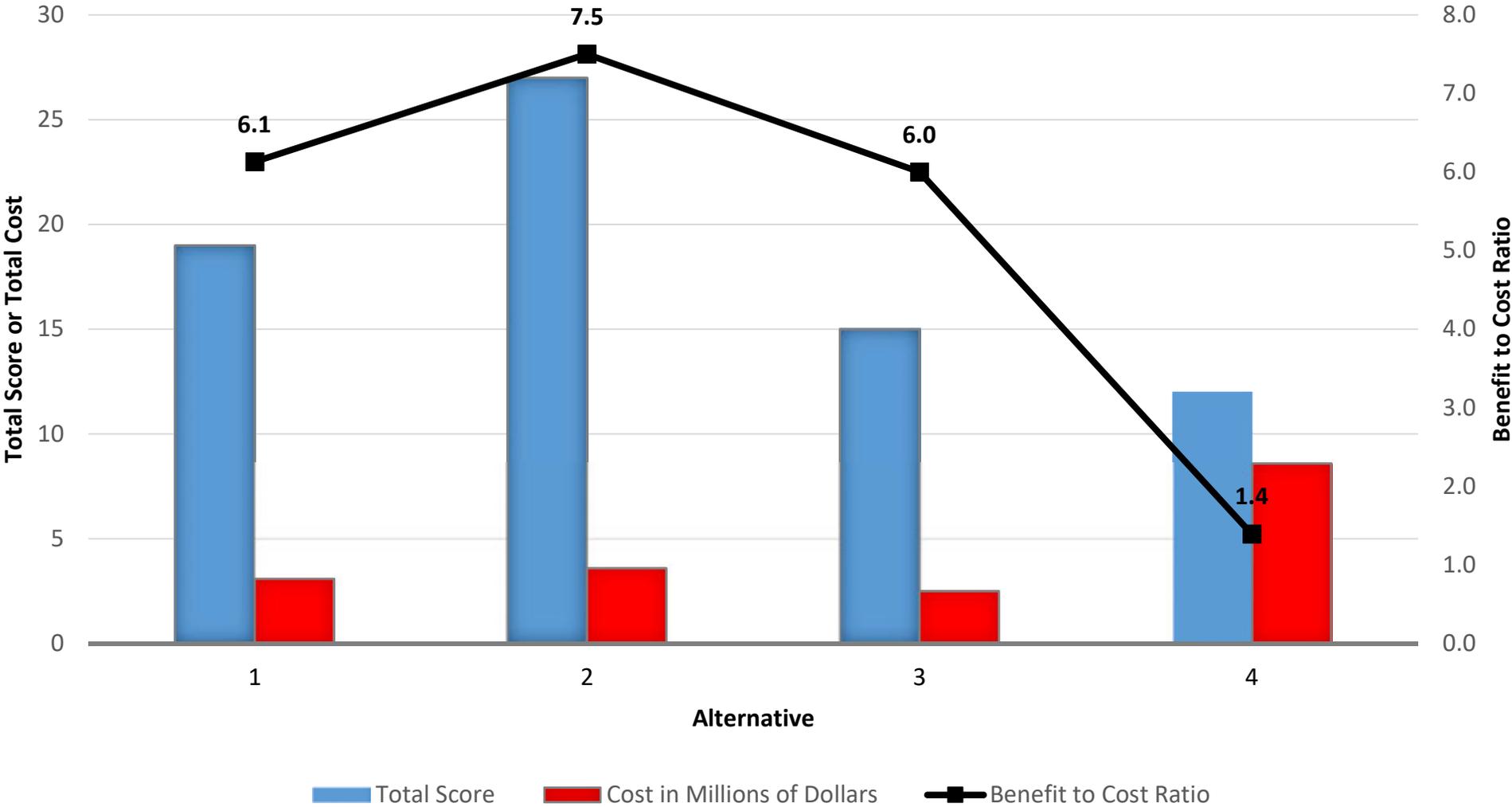
	Alternative 3	Alternative 4																																
Description	<p align="center">Building Demolition and Air Sparging (AS) and Soil Vapor Extraction (SVE)</p> <p>A series of approximately up to 75 soil vapor extraction (SVE) wells will be installed on the Property to remove HVOC concentrations in the upper 15 feet of the Site. The wells will be connected to an air blower system, with the HVOC-laden air run through carbon filters prior to discharge into the atmosphere. Air sparging (AS) will be conducted in approximately twenty five (25) wells that contain groundwater using a compressor, and SVE wells will remove HVOC-laden vapor. May not achieve overall protection.</p> <ul style="list-style-type: none"> - No disturbance of impacted soils, low amount of short-term risk. - Implementable; no restrictions to implement with building demolition - Groundwater impacts contained. No access concerns. - Significant Operations & Maintenance requirements. - High degree of uncertainty that sparging would impact intermediate and deeper portion of the aquifer. 	<p align="center">Soil Excavation to Depth of Glacial Till and Monitored Natural Attenuation (MNA)</p> <p>Excavation of impacted soils to 55 feet below ground surface (bgs) beneath the subject building source area footprint. During excavation, geotechnical pilings would support the excavation. Following soil removal, the excavations would be backfilled to grade. Some impacted soil would be left in place. Monitored natural attenuation would be implemented for long-term groundwater monitoring.</p> <ul style="list-style-type: none"> - Will achieve the protection but through long term monitoring. - Reduces volume of impacted soil by complete removal of vadose zone impacted soils and groundwater with highest PCE soil concentrations located in the source area. - Greatest use of removal and off-site disposal. - Most disturbance of impacted soil and groundwater, most short-term risk. - Significant construction health and safety concerns for workers - Very difficult implementation; current use of property is vacant with full access but excavation size to reach 55 feet bgs would take significant soil excavation. - Excavation does not remove all impacted soil and groundwater from the site. 																																
Area of Containment	0 square feet	0 square feet																																
Approximate Volume of Soil Removal	500 tons of Soil	45,000 tons of PCE Soil																																
Compliance with MTCA Threshold Requirements	Yes – Alternative protects human health and the environment.	Yes – Alternative protects human health and the environment.																																
Restoration Time Frame	10+ years or more – Low exposure to workers or tenants from airborne exposure to petroleum in soil. Long restoration timeframe. Not practical for future use due to large number of AS and SVE wells to significantly remediate the Site.	10+ years – Potential risk to workers from airborne exposure to chlorinated solvents in soil. Surrounding area includes other retail operations and residences with potential for affected by release during excavation activities. Practical due to current and future use for future tenants. May require institutional controls and hazardous substances may remain.																																
Total Score	15	12																																
Total Score Summary Comparison	<p>ALTERNATIVE 3</p> <table border="1"> <caption>Alternative 3 Score Breakdown</caption> <tr><th>Criteria</th><th>Score</th></tr> <tr><td>Protectiveness</td><td>1</td></tr> <tr><td>Permanence</td><td>2</td></tr> <tr><td>Long-Term Effectiveness</td><td>1</td></tr> <tr><td>Short-Term Risk Management</td><td>4</td></tr> <tr><td>Implementability</td><td>3</td></tr> <tr><td>Public Concerns</td><td>4</td></tr> <tr><td>Total</td><td>15</td></tr> </table>	Criteria	Score	Protectiveness	1	Permanence	2	Long-Term Effectiveness	1	Short-Term Risk Management	4	Implementability	3	Public Concerns	4	Total	15	<p>ALTERNATIVE 4</p> <table border="1"> <caption>Alternative 4 Score Breakdown</caption> <tr><th>Criteria</th><th>Score</th></tr> <tr><td>Protectiveness</td><td>3</td></tr> <tr><td>Permanence</td><td>3</td></tr> <tr><td>Long-Term Effectiveness</td><td>1</td></tr> <tr><td>Short-Term Risk Management</td><td>1</td></tr> <tr><td>Implementability</td><td>3</td></tr> <tr><td>Public Concerns</td><td>1</td></tr> <tr><td>Total</td><td>12</td></tr> </table>	Criteria	Score	Protectiveness	3	Permanence	3	Long-Term Effectiveness	1	Short-Term Risk Management	1	Implementability	3	Public Concerns	1	Total	12
Criteria	Score																																	
Protectiveness	1																																	
Permanence	2																																	
Long-Term Effectiveness	1																																	
Short-Term Risk Management	4																																	
Implementability	3																																	
Public Concerns	4																																	
Total	15																																	
Criteria	Score																																	
Protectiveness	3																																	
Permanence	3																																	
Long-Term Effectiveness	1																																	
Short-Term Risk Management	1																																	
Implementability	3																																	
Public Concerns	1																																	
Total	12																																	
Criteria	Total Score ^a	Total Score ^a																																
Overall Protectiveness	1	3																																
Permanence	2	3																																
Long-Term Effectiveness	1	1																																
Short-Term Risk Management ^b	4	1																																
Implementability	3	3																																
Public Concerns	4	1																																
Total	15	12																																
Estimated Cost	\$2,500,000	\$8,600,000																																

a – Total benefit score on a scale of 1-5, with 5 being the most beneficial

b – Low risk equals high score

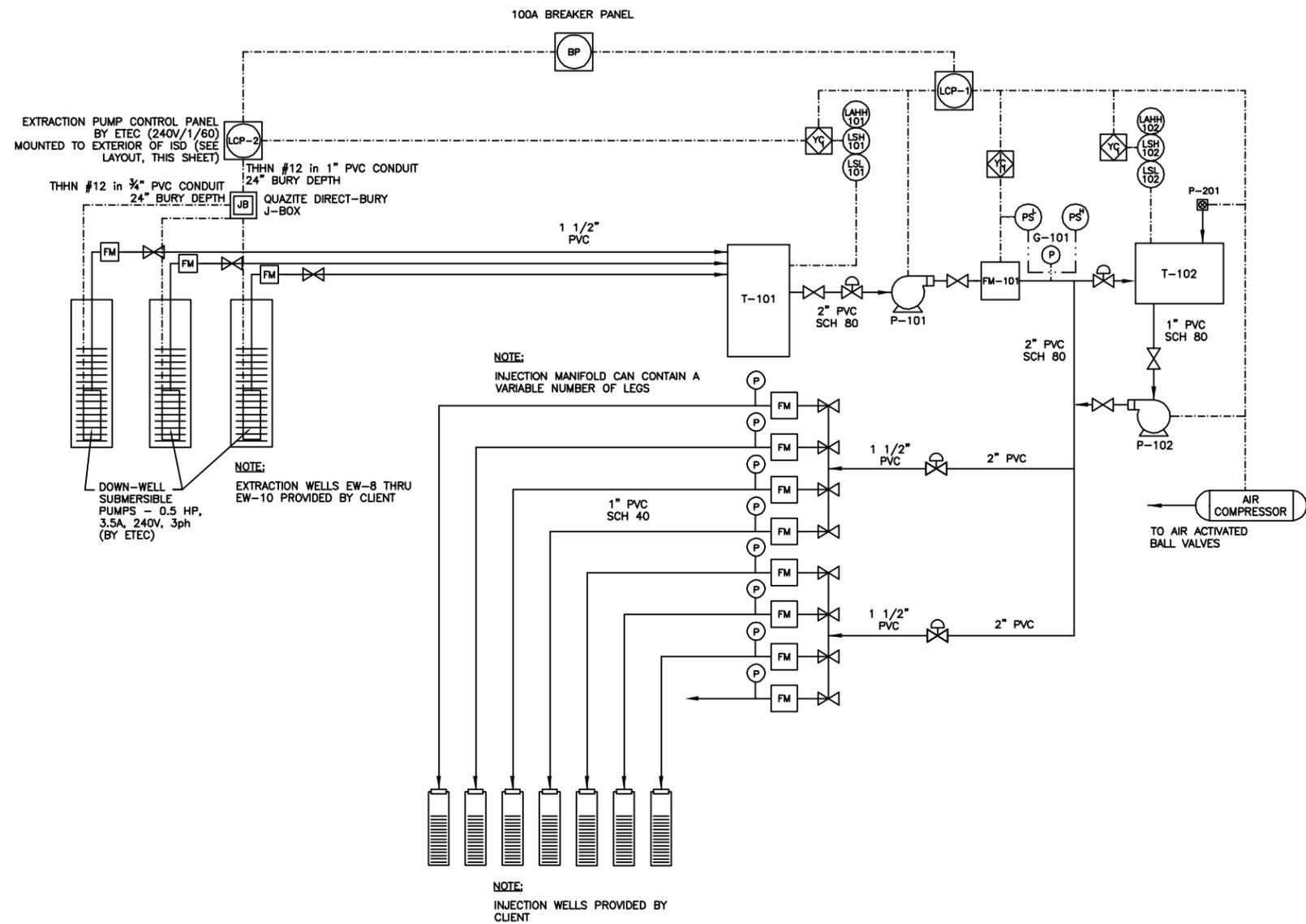
DISPROPORTIONATE COST ANALYSIS

BOTHELL SERVICE CENTER

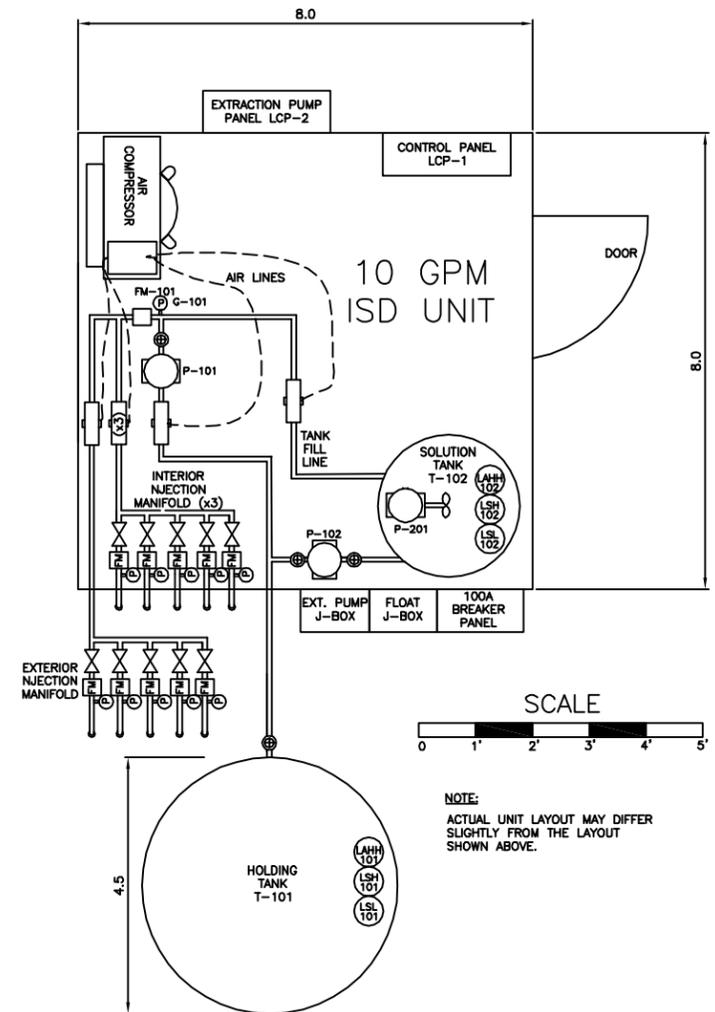


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**Attachment F
Remediation Description**



P & ID DIAGRAM



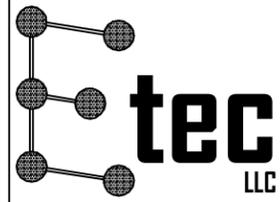
ISD SYSTEM LAYOUT WITH EXTRACTION PUMP PANEL (LCP-2) LOCATION

H:/ACAD/ISD.dwg

EQUIPMENT REFERENCE TABLE	
DESCRIPTION	P&ID REF.
HOLDING TANK	T-101
SUBSTRATE SOLUTION TANK	T-102
MAIN INJECTION PUMP	P-101
SUBSTRATE METERING PUMP	P-102
SUBSTRATE MIXER PUMP	P-201
MAIN INJECTION TOTALIZER FLOWMETER	FM-101
PRESSURE GAGE AND SWITCHES FOR MAIN INJECTION PUMP	G-101
TANK T-101 FLOAT CONTROLS	LSL/LSH/LAHH 101
TANK T-102 FLOAT CONTROLS	LSL/LSH/LAHH 102
ISD CONTROL PANEL & PLC	LCP-1
EXTRACTION PUMP CONTROL PANEL	LCP-2

P & ID SYMBOL LEGEND	
DESCRIPTION	SYMBOL
BALL VALVE	
AIR-ACTUATED BALL VALVE	
FLOW METER	
PRESSURE GAGE	
LOW PRESSURE SWITCH	
HIGH PRESSURE SWITCH	
PUMP	
LEVEL SWITCH - HIGH	
LEVEL SWITCH - LOW	
LEVEL ALARM - HIGH/HIGH	
LOGIC INPUT DECISION	

REVISION	DESCRIPTION	DATE	APPROVED



10-GPM ISD
RECIRCULATION SYSTEM

PROCESS AND
INSTRUMENTATION
DIAGRAM

DRAWN BY	DKL	DATE	JUNE 2013
DESIGNED BY	GJL	DRAWING NO.	1
CHECKED BY	BT	REVISION	0
APPROVED BY	BT		

Safety Data Sheet

Revision Date: 05/12/15

Section 1: Product and Company Identification

Product Name: CarBstrate™
MSDS Number: Not Assigned
Chemical Name: Proprietary
Chemical Family: Substrate Mixture

Recommended Use: Anaerobic bioremediation product
Restrictions on Use: No Data

Company: ETEC, LLC
 3830 S Truman Rd. Bldg. 12
 Washougal, WA 98671
 USA

Telephone: (971) 222-3616

Emergency Telephone:	(800) 535-5053
Medical Emergencies:	(800) 301-7976
U.S. Coast Guard National Response Center:	(800) 424-8802

Section 2: GHS Hazards Identification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Irritant	Category 2
Eye Irritant	Category 2
Specific Target Organ Toxicity - Single Exposure (Respiratory system)	Category 3

Label Elements:

Signal Word: Warning



Hazard Statements:

Causes skin irritation.
 Causes eye irritation.
 May cause respiratory irritation.

Precautionary Statements:

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/ eye protection/ face protection.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Call a POISON CENTER or doctor/ physician if you feel unwell.
 Specific treatment (see supplemental first aid instructions on this label).
 If skin irritation occurs: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/ attention.
 Take off contaminated clothing and wash before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

Section 3: Composition/Information on Ingredients

Ingredients as defined by 29 CFR 1910.1200:

Chemical Ingredients:	CAS Number:	Percent Range:
Trade Secret	-	~20%

The specific chemical identity and/or exact percentage of the composition has been withheld as Trade Secret in accordance with paragraph (i) of §1910.1200.

Section 4: First Aid Measures**Description of first aid measures:**

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a poison center or doctor/physician if you feel unwell.

Skin Contact: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed: See sections 2 and/or 11.

Indication of any immediate medical attention and special treatment needed: No data available.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Unsuitable Extinguishing Media: No known information.

Specific Hazards Arising from the chemical/substance: May decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products: Nitrogen oxides, phosphorous oxides, ammonia.

Protective Equipment and Precautions for Fire-Fighters: As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Do not breathe dust/fume/gas/mist/vapors/spray.

Environmental Precautions: Do not release to the environment. See section 12 for further environmental data.

Methods for Containment/Cleaning Up: Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities:

Storage: Store locked up. Keep in tightly closed container, store in a cool, dry, ventilated place.

Section 8: Exposure Controls/Personal Protection

Exposure Limits: There are no OSHA PEL's, NIOSH REL's, or ACGIH TLV's applicable to this material.

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment:

Eye Protection: Wear appropriate eye protection/face protection.

Hand Protection: Wear appropriate protective gloves.

Skin and Body Protection: Wear appropriate protective clothing to prevent skin exposure. Take off contaminated clothing and wash before reuse.

Respiratory Protection: Use only in a well-ventilated area. Avoid breathing dust. Wear appropriate NIOSH approved respirator if exposure limits are exceeded or irritation occurs.

Hygiene Measures: Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance/Physical State:	Crystals
Color:	White to Yellow
Odor:	Not Available
Odor Threshold:	Not Available
pH:	Not Applicable
Melting/Freezing Point:	Not Available
Initial Boiling Point:	Not Available
Flash Point:	Not Available
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Available
Lower Explosive Limit:	Not Available
Upper Explosive Limit:	Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Applicable
Relative Density:	1.00
Solubility:	Completely soluble in water
Partition Coefficient:	Not Available
Autoignition Temperature:	Not Available
Decomposition Temperature:	Not Available

Section 10: Stability and Reactivity

Reactivity: No information available.

Stability: Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions: No information available.

Conditions to Avoid: Extremes in temperature and direct sunlight.

Incompatible Materials: Strong oxidizing agents, strong acids, strong bases, Magnesium.

Hazardous Decomposition Products: Other decomposition products - No data available. In case of fire: see section 5.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Information on Likely Routes of Exposure:

Inhalation: May cause respiratory irritation if inhaled.
Ingestion: No information available.
Skin Contact: Causes skin irritation.
Eye Contact: Causes eye irritation.

Toxicity Data:

Chemical Name	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Trade Secret	6500 mg/kg (Rat)	7950 mg/kg (Rabbit)	No data

Symptoms: No information available.

Delayed and Immediate Effects, Chronic Effects from Short and Long Term Exposure:

Sensitization: No information available.
Mutagenic Effects: No information available.
Reproductive Toxicity: No information available.
STOT – Single Exposure: Respiratory system.
STOT – Repeated Exposure: No information available.
Aspiration Hazard: No information available.
Chronic Exposure: No information available.
Aggravation of Pre-existing Conditions: Asthma

Carcinogenicity:

Component	CAS	NTP	IARC	OSHA
Trade Secret	N/A	Not listed	Not listed	Not listed

Additional Information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information**Ecotoxicity:**

This product is safe for the environment at the concentrations predicted under normal use conditions.

Persistence and Degradability: No information available.

Bioaccumulative Potential: No information available.

Mobility in Soil: No information available.

Other Adverse Effects: No information available.

Section 13: Disposal Considerations

Dispose of contents/container in accordance with all applicable local, state and federal regulations.

Section 14: Transport Information

For Transportation Emergencies Involving This Material, Call:
ChemTrec 1-800-424-9300 Company Code: E419

DOT (LAND): Not regulated.

Section 15: Regulatory Information

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313: The Trade Secret component is subject to reporting levels (>1.0%) established by SARA Title III, Section 313:

State Right-to-Know:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Trade Secret	-	X	X	-	-

TSCA: Not Applicable

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

NFPA Rating:

Health Hazard:	2
Fire:	0
Reactivity Hazard:	1

Legend:

ACGIH: American Conference of Governmental & Industrial Hygienists
CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL/NDSL: Domestic Substances List/Non-Domestic Substances List
IARC: International Agency for the Research of Cancer
IATA: International Air Traffic Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organizations
NFPA: National Fire Protection Association Health, Flammability & Reactivity; Hazard Scale 0 =minimal/none 4= significant
NTP: National Toxicology Program
OSHA: Occupational Safety & Health Administration
PEL: Permissible Exposure Limits
RCRA: Resource Conservation & Recovery Act
RQ: Reportable Quantity
RTK: Right-To-Know
SARA: Superfund Amendments & Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average
TCLP: Toxicity Characteristic Leaching Procedure
VOC: Volatile Organic Compounds

Disclaimer: The information contained in this SDS is presented in good faith and believed to be accurate based on the information provided. The SDS does not purport to be all inclusive, and shall be used only as a guide. While ETEC, LLC believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which ETEC, LLC assumes legal responsibility. ETEC, LLC shall not be held liable or accountable for any loss or damage associated with the use of this material and information. The recommended industrial hygiene and safe use, handling, storage, and disposal procedures are believed to be generally applicable. However, since the use, handling, storage, and disposal are beyond ETEC, LLC control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability of loss, damage, or expense arising out of the material's improper use.

DRAFT

Attachment G
Floyd & Snider 2010 Figure

