MEMORANDUM

To: Jerome B. Cruz, Ph.D.
Toxics Cleanup Program, Northwest Regional Office
3190 - 160th SE Bellevue, WA 98008
Tel: (425) 649-7094 Fax: (425) 649-7098
Jerome.Cruz@ecy.wa.gov

From: John R. Kane

Date: August 19, 2019

Re: Amendment: Vadose Soil Excavation in ERH Treatment Area
Bothell Service Center Simon & Son
18107 Bothell Way NE
Bothell, WA
WA Ecology Facility/Site ID: 33215922

This memorandum provides a description of the vadose zone soil excavation and soil sampling activities conducted in the Electrical Resistance Heating (ERH) treatment area, in the western extent of the BSCSS Site, between June 18, 2019 and August 13, 2019 and describes work that goes beyond the previously approved Scope of Work dated June 7, 2019.

Background

This task was initiated according to the Work Plan document titled *Vadose Soil Excavation in ERH Treatment Area*, dated June 7, 2019. Following operation of the ERH system, a series of direct push (DP) soil borings was completed to identify zones of vadose zone soils which still contained halogenated volatile organic compounds (HVOCs) at concentrations exceeding the established cleanup levels (CULs). Based on the DP data, the Work Plan called for completion of four excavation trenches approximately 4 feet wide, 10 feet long, and up to seven feet deep, with the excavated soil hauled away for offsite disposal. Trenches were to be extended until soil confirmation sampling of trench sidewalls and bottoms indicated the extents of the trenches were in compliance with applicable CULs.

CULs for cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC) were reduced below former established CULs during the recent updates to the BSCSS CAP dated July 19, 2019. This change was reflected in the analysis of soils from DP borings and in the written *Work Plan*.

Excavation Activities

Excavation activities commenced on June 18, 2019. Kane Environmental oversaw environmental excavation contractor Mr. Bill Spooner (Spooner Contracting), as concrete was cut and broken to access underlying soils and excavated soil was placed in roll-off bins provided by Waste Management for offsite disposal. Initially, two separate excavations were centered around DP locations KSB-57 and KSB-58, and around DP location KSB-61. Based on initial data, it appeared that the excavation(s) would likely need to extend horizontally and extend deeper than originally expected and presented in the Work Plan. To

accommodate this requirement, additional roll-off bins were ordered to haul contaminated soils. While additional excavation days were scheduled, some days were excluded, with no excavation completed, due to contractor schedules, holiday schedules, and onsite constraints.

In addition to June 18, 2019, excavation activities were conducted on June 19, 20, 21, 26, and 28, July 1, 3, 8, 25, 26, and 30, and August 1, 2, 5, 6, 7, 9, 12, and 13. Daily excavation activities were driven by the results of the previous soil samples collected.

During the excavation process, care was taken to preserve the integrity of all installed wells within excavation areas, and no wells were adversely impacted from the excavation activities. These included ERH electrode wells, groundwater monitoring wells, soil vapor extraction wells, and bioremediation injection wells.

As the size and depth of the excavation increased, due to sidewall and bottom samples remaining contaminated with HVOCs in excess of the established CULs, some constraints were encountered:

- Access to the northern extent of the excavation was inhibited by the presence of the large Puget Sound Energy (PSE) electrical box, and the power conduit serving it, which were placed on the Property to accommodate the requirements of the ERH system. PSE was contacted regarding removal of this feature. It is scheduled to be removed from the Site on Tuesday July 23, 2019, which will allow the excavator to continue the excavation to the north, as needed.
- A thick concrete footing is present at the northern extent of the current excavation. It will be removed following removal of the PSE electrical box, to allow further excavation to the north.
- As the excavation widened, the excavator became unable to reach the western extent of the excavation from the eastern side.

Also, as the excavation deepened, it became difficult for the excavator to reach the bottom as slough from sidewalls fell in the excavation. Therefore, after confirmation of a clean bottom sample in the north-central portion of the excavation at 7.5 feet bgs (S14 E15:7.5) some clean backfill was placed in the excavation to allow the collected contaminated slough to be excavated out from a shallower depth.

Excavation in the area of KSB-49 commenced on August 2, 2019 and was completed to approximately 4 feet below ground surface (bgs). This southern excavation was approximately 41 ft^2, encompassing the location of DP boring KSB-49 and extended to a depth of 4 feet bgs.

By the end of the excavation day on August 13, 2019, the northern excavation was approximately 1,643 ft^2 encompassing the locations of DP borings KSB-57, KSB-58, and KSB-61. Excavation depths ranged from 12 feet bgs in the southwestern and western portions of the excavation, to approximately 5.5 feet bgs and 7.5 feet bgs in northern and eastern portions of the excavation. Figure 1 depicts the current extent of the northern excavation.

As of August 13, 2019, 34 roll-off bins have been filled and collected by Waste Management for offsite disposal.

Analytical Results

Kane Environmental submitted soil samples to Onsite Environmental Analytical Laboratory in Redmond, WA. All excavation samples were submitted with an expedited turnaround time to ensure that analytical results were received early the following day to guide further excavation. (In some cases, when no excavation was scheduled for the following day, samples were submitted with an extended turnaround

time.) Samples were also collected directly from the roll-off bins prior to their retrieval by Waste Management. No soil samples resulted in concentrations of HVOCs that would characterize the soil as hazardous.

Analytical data (summarized in Table 1) are cross referenced with the sample collection locations depicted on Figure 1. The numbered locations on Figure 1 correspond to the *Sample Location* on Table 1, with the *Sample Name* on Table 1 including coordinate data (to the south and east of a fixed origin) and depth below ground surface. Figure 1 depicts the sidewall and bottom soil samples where HVOC concentrations exceed their respective CULs. Select soil clearance samples were used for this memorandum to show that most of the excavation has reached compliance, with soils above CULs shown in red.

Analytical data from the northern excavation (around KSB-57, KSB-58, and KSB-61) show that the southern, western, and northern sidewalls of the excavation are in compliance. Bottom samples in the southwestern and western regions of the excavation (Sample Location 54 and 86, respectively) contain concentrations of cis-1,2 DCE in exceedance of the established CUL to a depth of 12 feet bgs. At both locations, soils were excavated to below the groundwater table, which generally ranges between 8 to 10 feet bgs. At the southwestern location, hand auger samples were collected from depths of 13, 14, and 15 feet bgs (Locations 71 through 73, respectively), to assess the vertical extent of cis-1,2 DCE in saturated soils. Concentrations of cis-1,2 DCE in exceedance of the established CUL were detected in all three samples. Due to the location of these soil samples beneath the groundwater table, Kane Environmental will remediate these saturated soils through the bioremediation injections presently occurring on the BSCSS Site. Compliance will be assessed during quarterly groundwater monitoring.

Analytical data results show that some near surface soils remain contaminated in the eastern extent of the eastern portion of the excavation (Sample Locations 111 and 112) at 2.5 feet bgs and 5.5 feet bgs, respectively, and in the southern extent of the eastern portion of the excavation (Sample Locations 116 and 119) at 2.5 feet bgs. In sample locations 111 and 112, HVOC contamination appears to be associated with a sanitary sewer utility line which runs generally northeast-southwest along the northern portion of the former building footprint. A small test pit was advanced to the east of the excavation on August 6, 2019 (Locations 93 through 97), in a location of previously detected near surface HVOC contamination (at 1 foot bgs). This location is within the soil vapor extraction system (SVE) area of influence, which is positioned parallel to the sanitary sewer utility line. Analytical results from sidewall and bottom samples confirmed that no concentrations of HVOCs were detected above the laboratory detection limit at this location.

Excavation in the area of KSB-49 commenced on August 2, 2019 and was completed to approximately 4 feet bgs. Analytical data results (Locations 81 through 85, and 92) show that the northern, western, southern and eastern sidewalls and bottom of the excavation are in compliance.

Remaining Excavation Required

In order to complete the planned excavations in the region of DP borings KSB-57, KSB-58, and KSB-61, additional excavation to the south and east will be required. This excavation will be in addition to the 250 tons originally estimated in July 2019. Prior to any additional excavation, Kane Environmental will advance three test pits on the BSCSS Site to assess the horizontal extent of near surface HVOC contamination. Proposed test pits are located to the south of the eastern portion of the excavation, and to the east of the eastern portion of the excavation, along the sewer utility line, between the current eastern edge of the excavation and the western-most SVE well. Three total test pits are proposed, with up to two soil samples collected from each test pit. Proposed test pit locations are depicted in Figure 1.

Costs in addition to those previously approved will be incurred to complete the scope of work presented in the Work Plan and amended in this document. Additional costs are required for the following:

- Additional excavation – Excavator operator, equipment, expenses;
- Additional excavation oversight – Kane Environmental field work including sample collection and delivery to laboratory;
- Additional soil disposal – Waste Management will provide additional roll-off bins and retrieve them for offsite disposal;
- Additional concrete disposal – Pending analytical results, additional concrete generated will be recycled at an appropriate facility. If necessary, some concrete may need disposal through Waste Management;
- Procurement of additional clean backfill and compaction – Additional backfill material will be hauled on site from a quarry and used to backfill the current excavation as well as any further expansion and additional excavation.

Remaining Remedial Activity

Additionally, Kane Environmental proposes that prior to excavation backfill, approximately 1,000-gallons of Carbstrate bioremediation product mixed with clean water be placed in the excavation. Furthermore, Kane Environmental recommends up to two approximately 30 foot long sections of slotted 2 or 4-inch diameter PVC pipe be placed along the base of the northern excavation oriented northeast-southwest, to act and infiltration galleries for the injection of bioremediation product into the subsurface. Access to the infiltration gallery will be from vertical PVC pipe connected to the horizontal pipe in the eastern portion of the excavation, and connected to the Bioremediation trailer along the surface. Additional injection locations will help to expedite the bioremediation process as the injected product infiltrates to groundwater and assists in the remediation of saturated soils and groundwater.

ATTACHMENTS

Figure 1	Site Plan with Excavation Boundary and Sampling Locations
Table 1	Summary of PCE and Breakdown Products in Soil
Attachment A	Laboratory Analytical Reports

FIGURES

LEGEND

- Approximate location of ERH monitoring well
- Approximate location of ERH electrode
- Approximate location of SVE well
- Approximate extent of excavation
- Approximate location of soil sample with HVOC concentrations greater than established CULs
- Approximate location of soil sample with HVOC concentrations below established CULs
- Approximate location of proposed test pit

KANE ENVIRONMENTAL INC

Bothell Service Center Simon & Son
18107 Bothell Way NE
Bothell, Washington

Figure 1
Site Plan with Northern Excavation Boundary and Sampling Locations

TABLES

TABLE 1
Summary of PCE and Breakdown Products in Soil
18107 Bothell Way NE
Bothell, Washington

Sample Location	Sample ID	Sample Date	Sample Depth	Vinyl Chloride	cis-1,2 DCE	Trichloroethene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg
54	S35 E12:12	7/25/2019	12	nd	**0.012**	nd	nd
71	S35 E13:13	7/30/2019	13	0.000045	**0.023**	nd	0.0041
72	S35 E13:14	7/30/2019	14	0.000049	**0.031**	nd	0.00089
73	S35 E13:15	7/30/2019	15	nd	**0.019**	0.00089	0.0014
81	S95 E08:4	8/2/2019	4	nd	nd	nd	0.0014
82	S96 E5.5:2	8/2/2019	2	nd	nd	nd	0.003
83	S93.5 E7.5:2	8/2/2019	2	nd	nd	0.0056	**0.056**
84	S95 E11.5:2	8/2/2019	2	nd	nd	nd	0.0023
85	S98 E10:2	8/2/2019	2	nd	nd	nd	0.0018
86	S20 E7.5:12	8/2/2019	12	nd	**0.012**	0.0011	0.0058
92	S91 E07:2ft	8/6/2019	2	nd	0.001	0.013	0.034
93	N15 E80:1.75ft	8/6/2019	1.75	nd	nd	nd	nd
94	N14 E79:1ft	8/6/2019	1	nd	nd	nd	nd
95	N15.5 E81:1ft	8/6/2019	1	nd	nd	nd	nd
96	N16.5 E80:1ft	8/6/2019	1	nd	nd	nd	nd
97	N13.5 E80.5:1ft	8/6/2019	1	nd	nd	nd	nd
110	N1 E41:2.5	8/12/2019	2.5	nd	nd	nd	0.014
111	S5 E46.5:2.5	8/12/2019	2.5	nd	nd	nd	**0.056**
112	S9 E44:5.5	8/12/2019	5.5	nd	nd	nd	**0.063**
113	S17 E47.5:2.5	8/12/2019	2.5	nd	nd	nd	0.0059
114	S25 E43:2.5	8/12/2019	2.5	nd	nd	nd	0.0072
115	S20.5 E51:5ft	8/13/2019	5	nd	nd	nd	0.013
116	S25 E40:2.5ft	8/13/2019	2.5	nd	nd	0.004	**0.066**
117	S25 E40:3ft	8/13/2019	3	nd	nd	0.007	0.019
118	S25 E36:5.5ft	8/13/2019	5.5	nd	nd	0.005	0.03
119	S29 E30:2.5ft	8/13/2019	2.5	nd	nd	0.018	**0.16**
120	S18 E45:7ft	8/13/2019	7	nd	nd	nd	0.0024
Site Specific Cleanup Levels				0.0000885	0.00515	0.03	0.05

Notes:
mg/kg = milligrams per kilogram (equivalent to parts per million [ppm]).
nd = not detected at Method Reporting Limit.
Shaded and Bold concentrations are above the Site Specific Cleanup Levels.

ATTACHMENT A
ANALYTICAL REPORTS

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

July 26, 2019

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.3
Laboratory Reference No. 1907-291

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 25, 2019.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 26, 2019
Samples Submitted: July 25, 2019
Laboratory Reference: 1907-291
Project: 82302-9.3

Case Narrative

Samples were collected on July 25, 2019 and received by the laboratory on July 25, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 26, 2019
Samples Submitted: July 25, 2019
Laboratory Reference: 1907-291
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E12:12**					
Laboratory ID:	07-291-01					
Dichlorodifluoromethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Chloromethane	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
Vinyl Chloride	ND	0.000043	EPA 8260C/SIM	7-25-19	7-25-19	
Bromomethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Chloroethane	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Iodomethane	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
Methylene Chloride	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
(cis) 1,2-Dichloroethene	0.012	0.00086	EPA 8260C	7-25-19	7-25-19	
Bromochloromethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Chloroform	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Trichloroethene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Dibromomethane	ND	0.0012	EPA 8260C	7-25-19	7-25-19	
Bromodichloromethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	

Date of Report: July 26, 2019
Samples Submitted: July 25, 2019
Laboratory Reference: 1907-291
Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E12:12**					
Laboratory ID:	07-291-01					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Tetrachloroethene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Dibromochloromethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Chlorobenzene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Bromoform	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
Bromobenzene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
2-Chlorotoluene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
4-Chlorotoluene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	7-25-19	7-25-19	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	7-25-19	7-25-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*76-131*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

Date of Report: July 26, 2019
Samples Submitted: July 25, 2019
Laboratory Reference: 1907-291
Project: 82302-9.3

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Chloromethane	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	7-25-19	7-25-19	
Bromomethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Chloroethane	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Iodomethane	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
Methylene Chloride	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Bromochloromethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Chloroform	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Trichloroethene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Dibromomethane	ND	0.0014	EPA 8260C	7-25-19	7-25-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	

Date of Report: July 26, 2019
Samples Submitted: July 25, 2019
Laboratory Reference: 1907-291
Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Chlorobenzene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Bromoform	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
Bromobenzene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-25-19	7-25-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-25-19	7-25-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*76-131*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*92*	*71-130*				

Date of Report: July 26, 2019
Samples Submitted: July 25, 2019
Laboratory Reference: 1907-291
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0725S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0488**	**0.0483**	0.0500	0.0500	98	97	57-133	1	18	
Benzene	**0.0482**	**0.0479**	0.0500	0.0500	96	96	71-129	1	16	
Trichloroethene	**0.0554**	**0.0517**	0.0500	0.0500	111	103	71-122	7	16	
Toluene	**0.0498**	**0.0476**	0.0500	0.0500	100	95	74-125	5	15	
Chlorobenzene	**0.0571**	**0.0544**	0.0500	0.0500	114	109	72-120	5	14	
Surrogate:										
Dibromofluoromethane					*94*	*95*	*76-131*			
Toluene-d8					*97*	*97*	*78-128*			
4-Bromofluorobenzene					*100*	*98*	*71-130*			

Date of Report: July 26, 2019
Samples Submitted: July 25, 2019
Laboratory Reference: 1907-291
Project: 82302-9.3

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
S35 E12:12	07-291-01	**15**	7-25-19
S28 E2:5	07-291-02	**4**	7-25-19
S28 E1: 2.5	07-291-03	**6**	7-25-19
S32 E2:3	07-291-04	**6**	7-25-19
S18 E2:5	07-291-05	**5**	7-25-19
S18 E1:2.5	07-291-06	**12**	7-25-19
S18 E8:5	07-291-07	**4**	7-25-19

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

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

Company: Kane Environmental
Project Number: 82302-9.3
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Eric Nassan

Turnaround Request (in working days)

(Check One)

- [x] Same Day
- [ ] 1 Day
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days)
- [ ] _____ (other)

Laboratory Number: 07-291

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	S35 E12:12	7/25	0945	soil	4						X												X
2	S28 E2:5		1015								X												
3	S28 E1:2.5		1020								X												
4	S32 E2:3		1125								X												
5	S18 E2:5		1135								X												
6	S18 E1:2.5		1140								X												
7	S18 E8:5		1150								X												

	Signature	Company	Date	Time
Relinquished	Eric Nassan	Kane	7/25/19	1300
Received	Wendy Craver	GSE	7/25/19	1300
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Need 0.08 ppb detection limit for VC
Results ASAP

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

July 31, 2019

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.3
Laboratory Reference No. 1907-336

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 30, 2019.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

Case Narrative

Samples were collected on July 30, 2019 and received by the laboratory on July 30, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E13:13**					
Laboratory ID:	07-336-02					
Dichlorodifluoromethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Chloromethane	ND	0.0036	EPA 8260C	7-30-19	7-30-19	
Vinyl Chloride	0.000045	0.000036	EPA 8260C/SIM	7-30-19	7-30-19	
Bromomethane	ND	0.00095	EPA 8260C	7-30-19	7-30-19	
Chloroethane	ND	0.0036	EPA 8260C	7-30-19	7-30-19	
Trichlorofluoromethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Iodomethane	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
Methylene Chloride	ND	0.0036	EPA 8260C	7-30-19	7-30-19	
(trans) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
2,2-Dichloropropane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
(cis) 1,2-Dichloroethene	0.023	0.00073	EPA 8260C	7-30-19	7-30-19	
Bromochloromethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Chloroform	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,1,1-Trichloroethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Carbon Tetrachloride	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloropropene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloroethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Trichloroethene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloropropane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Dibromomethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Bromodichloromethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	7-30-19	7-30-19	
(cis) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
(trans) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E13:13**					
Laboratory ID:	07-336-02					
1,1,2-Trichloroethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Tetrachloroethene	0.0041	0.00073	EPA 8260C	7-30-19	7-30-19	
1,3-Dichloropropane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Dibromochloromethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromoethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Chlorobenzene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,1,1,2-Tetrachloroethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Bromoform	ND	0.0036	EPA 8260C	7-30-19	7-30-19	
Bromobenzene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,1,2,2-Tetrachloroethane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichloropropane	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
2-Chlorotoluene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
4-Chlorotoluene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,3-Dichlorobenzene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,4-Dichlorobenzene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,2-Dichlorobenzene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	7-30-19	7-30-19	
1,2,4-Trichlorobenzene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichlorobenzene	ND	0.00073	EPA 8260C	7-30-19	7-30-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*76-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E13:14**					
Laboratory ID:	07-336-03					
Dichlorodifluoromethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Chloromethane	ND	0.0027	EPA 8260C	7-30-19	7-30-19	
Vinyl Chloride	0.000049	0.000027	EPA 8260C/SIM	7-30-19	7-30-19	
Bromomethane	ND	0.00071	EPA 8260C	7-30-19	7-30-19	
Chloroethane	ND	0.0027	EPA 8260C	7-30-19	7-30-19	
Trichlorofluoromethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Iodomethane	ND	0.0037	EPA 8260C	7-30-19	7-30-19	
Methylene Chloride	ND	0.0027	EPA 8260C	7-30-19	7-30-19	
(trans) 1,2-Dichloroethene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
2,2-Dichloropropane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
(cis) 1,2-Dichloroethene	0.031	0.00054	EPA 8260C	7-30-19	7-30-19	
Bromochloromethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Chloroform	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,1,1-Trichloroethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Carbon Tetrachloride	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloropropene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloroethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Trichloroethene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloropropane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Dibromomethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Bromodichloromethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
2-Chloroethyl Vinyl Ether	ND	0.0027	EPA 8260C	7-30-19	7-30-19	
(cis) 1,3-Dichloropropene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
(trans) 1,3-Dichloropropene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E13:14**					
Laboratory ID:	07-336-03					
1,1,2-Trichloroethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Tetrachloroethene	0.00089	0.00054	EPA 8260C	7-30-19	7-30-19	
1,3-Dichloropropane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Dibromochloromethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromoethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Chlorobenzene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,1,1,2-Tetrachloroethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Bromoform	ND	0.0027	EPA 8260C	7-30-19	7-30-19	
Bromobenzene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,1,2,2-Tetrachloroethane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichloropropane	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
2-Chlorotoluene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
4-Chlorotoluene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,3-Dichlorobenzene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,4-Dichlorobenzene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,2-Dichlorobenzene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromo-3-chloropropane	ND	0.0027	EPA 8260C	7-30-19	7-30-19	
1,2,4-Trichlorobenzene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Hexachlorobutadiene	ND	0.0027	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichlorobenzene	ND	0.00054	EPA 8260C	7-30-19	7-30-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*76-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E13:15**					
Laboratory ID:	07-336-04					
Dichlorodifluoromethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Chloromethane	ND	0.0042	EPA 8260C	7-30-19	7-30-19	
Vinyl Chloride	ND	0.000042	EPA 8260C/SIM	7-30-19	7-30-19	
Bromomethane	ND	0.0011	EPA 8260C	7-30-19	7-30-19	
Chloroethane	ND	0.0042	EPA 8260C	7-30-19	7-30-19	
Trichlorofluoromethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Iodomethane	ND	0.0057	EPA 8260C	7-30-19	7-30-19	
Methylene Chloride	ND	0.0042	EPA 8260C	7-30-19	7-30-19	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
2,2-Dichloropropane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
(cis) 1,2-Dichloroethene	0.019	0.00083	EPA 8260C	7-30-19	7-30-19	
Bromochloromethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Chloroform	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Carbon Tetrachloride	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloropropene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloroethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Trichloroethene	0.00089	0.00083	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloropropane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Dibromomethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Bromodichloromethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	7-30-19	7-30-19	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S35 E13:15**					
Laboratory ID:	07-336-04					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Tetrachloroethene	0.0014	0.00083	EPA 8260C	7-30-19	7-30-19	
1,3-Dichloropropane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Dibromochloromethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromoethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Chlorobenzene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Bromoform	ND	0.0042	EPA 8260C	7-30-19	7-30-19	
Bromobenzene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
2-Chlorotoluene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
4-Chlorotoluene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	7-30-19	7-30-19	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260C	7-30-19	7-30-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*76-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0730S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Chloromethane	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	7-30-19	7-30-19	
Bromomethane	ND	0.0013	EPA 8260C	7-30-19	7-30-19	
Chloroethane	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Iodomethane	ND	0.0068	EPA 8260C	7-30-19	7-30-19	
Methylene Chloride	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Bromochloromethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Chloroform	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Trichloroethene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Dibromomethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0730S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Chlorobenzene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Bromoform	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
Bromobenzene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-30-19	7-30-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-30-19	7-30-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*76-131*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0730S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0473**	**0.0461**	0.0500	0.0500	95	92	57-133	3	18	
Benzene	**0.0474**	**0.0479**	0.0500	0.0500	95	96	71-129	1	16	
Trichloroethene	**0.0551**	**0.0527**	0.0500	0.0500	110	105	71-122	4	16	
Toluene	**0.0502**	**0.0484**	0.0500	0.0500	100	97	74-125	4	15	
Chlorobenzene	**0.0563**	**0.0542**	0.0500	0.0500	113	108	72-120	4	14	
Surrogate:										
Dibromofluoromethane					*89*	*92*	*76-131*			
Toluene-d8					*93*	*91*	*78-128*			
4-Bromofluorobenzene					*98*	*99*	*71-130*			

Date of Report: July 31, 2019
Samples Submitted: July 30, 2019
Laboratory Reference: 1907-336
Project: 82302-9.3

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
S18 E7.5:7	07-336-01	**6**	7-30-19
S35 E13:13	07-336-02	**20**	7-30-19
S35 E13:14	07-336-03	**19**	7-30-19
S35 E13:15	07-336-04	**20**	7-30-19
S11 E29:2.5	07-336-05	**8**	7-30-19
S19.5 E27:2.5	07-336-06	**8**	7-30-19

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Kane Environmental
Project Number: 82302-9.3
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: EN

Turnaround Request (in working days)

(Check One)

~~☑ Same Day~~ ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

☐ _____ (other)

Laboratory Number: 07-336

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	S18 E7.5 : 7	7/30/19	0820	soil	4
2	S35 E13 : 13		0920		4
3	S35 E13 : 14		0935		4
4	S35 E13 : 15		1025		4
5	S11 E29 : 2.5		1100		4
6	S19.5 E27 : 2.5		1110		4

Lab ID	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						X																X
2						X																
3						X																
4						X																
5						X																
6						X																

	Signature	Company	Date	Time
Relinquished		Kane Environmental	7/30	1300
Received		OSE	7/30/19	1300
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Need 0.08 ppb detection limit for VC

~~Results ASAP~~ EN

- 1 day TAT

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

August 5, 2019

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.3
Laboratory Reference No. 1908-028

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on August 2, 2019.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

Case Narrative

Samples were collected on August 2, 2019 and received by the laboratory on August 2, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S95E08:4**					
Laboratory ID:	08-028-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-2-19	8-2-19	
Chloromethane	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
Vinyl Chloride	ND	0.000036	EPA 8260C/SIM	8-2-19	8-2-19	
Bromomethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Chloroethane	ND	0.0036	EPA 8260C	8-2-19	8-2-19	
Trichlorofluoromethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Iodomethane	ND	0.0036	EPA 8260C	8-2-19	8-2-19	
Methylene Chloride	ND	0.0036	EPA 8260C	8-2-19	8-2-19	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
2,2-Dichloropropane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Bromochloromethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Chloroform	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Carbon Tetrachloride	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloropropene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloroethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Trichloroethene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloropropane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Dibromomethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Bromodichloromethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	8-2-19	8-2-19	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S95E08:4**					
Laboratory ID:	08-028-01					
1,1,2-Trichloroethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Tetrachloroethene	0.0014	0.00072	EPA 8260C/SIM	8-2-19	8-2-19	
1,3-Dichloropropane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Dibromochloromethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromoethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Chlorobenzene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Bromoform	ND	0.0036	EPA 8260C	8-2-19	8-2-19	
Bromobenzene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
2-Chlorotoluene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
4-Chlorotoluene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	8-2-19	8-2-19	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260C	8-2-19	8-2-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*76-131*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*104*	*71-130*				

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S96E5.5:2**					
Laboratory ID:	08-028-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-2-19	8-2-19	
Chloromethane	ND	0.0048	EPA 8260C	8-2-19	8-2-19	
Vinyl Chloride	ND	0.000035	EPA 8260C/SIM	8-2-19	8-2-19	
Bromomethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Chloroethane	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
Trichlorofluoromethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Iodomethane	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
Methylene Chloride	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
(trans) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
2,2-Dichloropropane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
(cis) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Bromochloromethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Chloroform	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,1,1-Trichloroethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Carbon Tetrachloride	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloropropene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloroethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Trichloroethene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloropropane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Dibromomethane	ND	0.00098	EPA 8260C	8-2-19	8-2-19	
Bromodichloromethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
(cis) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
(trans) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S96E5.5:2**					
Laboratory ID:	08-028-02					
1,1,2-Trichloroethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Tetrachloroethene	0.0030	0.00070	EPA 8260C/SIM	8-2-19	8-2-19	
1,3-Dichloropropane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Dibromochloromethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromoethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Chlorobenzene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,1,1,2-Tetrachloroethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Bromoform	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
Bromobenzene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,1,2,2-Tetrachloroethane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichloropropane	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
2-Chlorotoluene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
4-Chlorotoluene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,3-Dichlorobenzene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,4-Dichlorobenzene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,2-Dichlorobenzene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
1,2,4-Trichlorobenzene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichlorobenzene	ND	0.00070	EPA 8260C	8-2-19	8-2-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*76-131*				
Toluene-d8	*94*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S93.5E7.5:2**					
Laboratory ID:	08-028-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-2-19	8-2-19	
Chloromethane	ND	0.0060	EPA 8260C	8-2-19	8-2-19	
Vinyl Chloride	ND	0.000044	EPA 8260C/SIM	8-2-19	8-2-19	
Bromomethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Chloroethane	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Iodomethane	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
Methylene Chloride	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Bromochloromethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Chloroform	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Trichloroethene	0.0056	0.00088	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Dibromomethane	ND	0.0012	EPA 8260C	8-2-19	8-2-19	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S93.5E7.5:2**					
Laboratory ID:	08-028-03					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Tetrachloroethene	0.056	0.00088	EPA 8260C/SIM	8-2-19	8-2-19	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Chlorobenzene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Bromoform	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
Bromobenzene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-2-19	8-2-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*76-131*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S95E11.5:2**					
Laboratory ID:	08-028-04					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-2-19	8-2-19	
Chloromethane	ND	0.0054	EPA 8260C	8-2-19	8-2-19	
Vinyl Chloride	ND	0.000039	EPA 8260C/SIM	8-2-19	8-2-19	
Bromomethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Chloroethane	ND	0.0039	EPA 8260C	8-2-19	8-2-19	
Trichlorofluoromethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Iodomethane	ND	0.0039	EPA 8260C	8-2-19	8-2-19	
Methylene Chloride	ND	0.0039	EPA 8260C	8-2-19	8-2-19	
(trans) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
2,2-Dichloropropane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
(cis) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Bromochloromethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Chloroform	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,1,1-Trichloroethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Carbon Tetrachloride	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloropropene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloroethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Trichloroethene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloropropane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Dibromomethane	ND	0.0011	EPA 8260C	8-2-19	8-2-19	
Bromodichloromethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-2-19	8-2-19	
(cis) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
(trans) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S95E11.5:2**					
Laboratory ID:	08-028-04					
1,1,2-Trichloroethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Tetrachloroethene	0.0023	0.00079	EPA 8260C/SIM	8-2-19	8-2-19	
1,3-Dichloropropane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Dibromochloromethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromoethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Chlorobenzene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,1,1,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Bromoform	ND	0.0039	EPA 8260C	8-2-19	8-2-19	
Bromobenzene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,1,2,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichloropropane	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
2-Chlorotoluene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
4-Chlorotoluene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,3-Dichlorobenzene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,4-Dichlorobenzene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,2-Dichlorobenzene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-2-19	8-2-19	
1,2,4-Trichlorobenzene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichlorobenzene	ND	0.00079	EPA 8260C	8-2-19	8-2-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*76-131*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S98E10:2**					
Laboratory ID:	08-028-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-2-19	8-2-19	
Chloromethane	ND	0.0049	EPA 8260C	8-2-19	8-2-19	
Vinyl Chloride	ND	0.000035	EPA 8260C/SIM	8-2-19	8-2-19	
Bromomethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Chloroethane	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
Trichlorofluoromethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Iodomethane	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
Methylene Chloride	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
(trans) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
2,2-Dichloropropane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
(cis) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Bromochloromethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Chloroform	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,1,1-Trichloroethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Carbon Tetrachloride	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloropropene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloroethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Trichloroethene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloropropane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Dibromomethane	ND	0.00099	EPA 8260C	8-2-19	8-2-19	
Bromodichloromethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
(cis) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
(trans) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S98E10:2**					
Laboratory ID:	08-028-05					
1,1,2-Trichloroethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Tetrachloroethene	0.0018	0.00071	EPA 8260C/SIM	8-2-19	8-2-19	
1,3-Dichloropropane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Dibromochloromethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromoethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Chlorobenzene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,1,1,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Bromoform	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
Bromobenzene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,1,2,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichloropropane	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
2-Chlorotoluene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
4-Chlorotoluene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,3-Dichlorobenzene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,4-Dichlorobenzene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,2-Dichlorobenzene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
1,2,4-Trichlorobenzene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichlorobenzene	ND	0.00071	EPA 8260C	8-2-19	8-2-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*76-131*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S20E7.5:12**					
Laboratory ID:	08-028-06					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-2-19	8-2-19	
Chloromethane	ND	0.0061	EPA 8260C	8-2-19	8-2-19	
Vinyl Chloride	ND	0.000044	EPA 8260C/SIM	8-2-19	8-2-19	
Bromomethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Chloroethane	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Iodomethane	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
Methylene Chloride	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
(cis) 1,2-Dichloroethene	0.012	0.00089	EPA 8260C	8-2-19	8-2-19	
Bromochloromethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Chloroform	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Trichloroethene	0.0011	0.00089	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Dibromomethane	ND	0.0012	EPA 8260C	8-2-19	8-2-19	
Bromodichloromethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S20E7.5:12**					
Laboratory ID:	08-028-06					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Tetrachloroethene	0.0058	0.00089	EPA 8260C/SIM	8-2-19	8-2-19	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Dibromochloromethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Chlorobenzene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Bromoform	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
Bromobenzene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
2-Chlorotoluene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
4-Chlorotoluene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	8-2-19	8-2-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*76-131*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0802S1					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-2-19	8-2-19	
Chloromethane	ND	0.0069	EPA 8260C	8-2-19	8-2-19	
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	8-2-19	8-2-19	
Bromomethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Chloroethane	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Iodomethane	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
Methylene Chloride	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Bromochloromethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Chloroform	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Trichloroethene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Dibromomethane	ND	0.0014	EPA 8260C	8-2-19	8-2-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0802S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Tetrachloroethene	ND	0.0010	EPA 8260C/SIM	8-2-19	8-2-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Chlorobenzene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Bromoform	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
Bromobenzene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-2-19	8-2-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-2-19	8-2-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*76-131*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0802S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0408**	**0.0422**	0.0500	0.0500	82	84	57-133	3	18	
Benzene	**0.0420**	**0.0441**	0.0500	0.0500	84	88	71-129	5	16	
Trichloroethene	**0.0517**	**0.0515**	0.0500	0.0500	103	103	71-122	0	16	
Toluene	**0.0463**	**0.0473**	0.0500	0.0500	93	95	74-125	2	15	
Chlorobenzene	**0.0501**	**0.0521**	0.0500	0.0500	100	104	72-120	4	14	
Surrogate:										
Dibromofluoromethane					*87*	*89*	*76-131*			
Toluene-d8					*94*	*95*	*78-128*			
4-Bromofluorobenzene					*94*	*102*	*71-130*			

Date of Report: August 5, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-028
Project: 82302-9.3

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
S95E08:4	08-028-01	**6**	8-2-19
S96E5.5:2	08-028-02	**4**	8-2-19
S93.5E7.5:2	08-028-03	**12**	8-2-19
S95E11.5:2	08-028-04	**12**	8-2-19
S98E10:2	08-028-05	**5**	8-2-19
S20E7.5:12	08-028-06	**16**	8-2-19

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Farallon
Project Number: 397-034-11A
Project Name: Bellevue P1222
Project Manager: J. Romds
Sampled by: AB / CB

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

Laboratory Number: 07-028

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C BTEX	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	FMW-8_070119	7-1-19	16:28	Water	7			X	X		X																
2	FMW-9-070119		16:31																								
3	FMW-11-070119		12:19																								
4	FMW-12-070119		12:35																								

AB

	Signature	Company	Date	Time
Relinquished	Chantal Bafus	Farallon	7-9-19	(832)
Received		OSE	7/2/19	1200
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

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

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

August 8, 2019

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.3
Laboratory Reference No. 1908-069

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on August 6, 2019.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

Case Narrative

Samples were collected on August 6, 2019 and received by the laboratory on August 6, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S91 E07:2ft**					
Laboratory ID:	08-069-01					
Dichlorodifluoromethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Chloromethane	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
Vinyl Chloride	ND	0.000038	EPA 8260C/SIM	8-6-19	8-6-19	
Bromomethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Chloroethane	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Iodomethane	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
Methylene Chloride	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
(cis) 1,2-Dichloroethene	0.0010	0.00077	EPA 8260C	8-6-19	8-6-19	
Bromochloromethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Chloroform	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Trichloroethene	0.013	0.00077	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Dibromomethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Bromodichloromethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S91 E07:2ft**					
Laboratory ID:	08-069-01					
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Tetrachloroethene	0.034	0.00077	EPA 8260C	8-6-19	8-6-19	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Dibromochloromethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Chlorobenzene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Bromoform	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
Bromobenzene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
2-Chlorotoluene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
4-Chlorotoluene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	8-6-19	8-6-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*76-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N15 E80:1.75ft**					
Laboratory ID:	08-069-02					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chloromethane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Vinyl Chloride	ND	0.000042	EPA 8260C/SIM	8-6-19	8-6-19	
Bromomethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chloroethane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Iodomethane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Methylene Chloride	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Bromochloromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chloroform	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Trichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Dibromomethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N15 E80:1.75ft**					
Laboratory ID:	08-069-02					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Bromoform	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Bromobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*76-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N14.5 E79:1ft**					
Laboratory ID:	08-069-03					
Dichlorodifluoromethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Chloromethane	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
Vinyl Chloride	ND	0.000039	EPA 8260C/SIM	8-6-19	8-6-19	
Bromomethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Chloroethane	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
Trichlorofluoromethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Iodomethane	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
Methylene Chloride	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
(trans) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
2,2-Dichloropropane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
(cis) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Bromochloromethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Chloroform	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,1,1-Trichloroethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Carbon Tetrachloride	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloropropene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloroethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Trichloroethene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloropropane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Dibromomethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Bromodichloromethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
(cis) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
(trans) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N14.5 E79:1ft**					
Laboratory ID:	08-069-03					
1,1,2-Trichloroethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Tetrachloroethene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,3-Dichloropropane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Dibromochloromethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromoethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Chlorobenzene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,1,1,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Bromoform	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
Bromobenzene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,1,2,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichloropropane	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
2-Chlorotoluene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
4-Chlorotoluene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,3-Dichlorobenzene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,4-Dichlorobenzene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,2-Dichlorobenzene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
1,2,4-Trichlorobenzene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichlorobenzene	ND	0.00079	EPA 8260C	8-6-19	8-6-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*76-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
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Project: 82302-9.3

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N15.5 E81:1ft**					
Laboratory ID:	08-069-04					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chloromethane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Vinyl Chloride	ND	0.000042	EPA 8260C/SIM	8-6-19	8-6-19	
Bromomethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chloroethane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Iodomethane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Methylene Chloride	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Bromochloromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chloroform	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Trichloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Dibromomethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N15.5 E81:1ft**					
Laboratory ID:	08-069-04					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Chlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Bromoform	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
Bromobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-6-19	8-6-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*76-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
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Project: 82302-9.3

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N16.5 E80:1ft**					
Laboratory ID:	08-069-05					
Dichlorodifluoromethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Chloromethane	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
Vinyl Chloride	ND	0.000044	EPA 8260C/SIM	8-6-19	8-6-19	
Bromomethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Chloroethane	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Iodomethane	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
Methylene Chloride	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Bromochloromethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Chloroform	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Trichloroethene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Dibromomethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Bromodichloromethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	

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Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N16.5 E80:1ft**					
Laboratory ID:	08-069-05					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Tetrachloroethene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Dibromochloromethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Chlorobenzene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Bromoform	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
Bromobenzene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
2-Chlorotoluene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
4-Chlorotoluene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	8-6-19	8-6-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*76-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
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Project: 82302-9.3

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N13.5 E80.5:1ft**					
Laboratory ID:	08-069-06					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Chloromethane	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
Vinyl Chloride	ND	0.000047	EPA 8260C/SIM	8-6-19	8-6-19	
Bromomethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Chloroethane	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Iodomethane	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
Methylene Chloride	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Bromochloromethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Chloroform	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Trichloroethene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Dibromomethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	

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Samples Submitted: August 6, 2019
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N13.5 E80.5:1ft**					
Laboratory ID:	08-069-06					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Chlorobenzene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Bromoform	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
Bromobenzene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-6-19	8-6-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*76-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

Date of Report: August 8, 2019
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Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0806S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Chloromethane	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	8-6-19	8-6-19	
Bromomethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Chloroethane	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Iodomethane	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
Methylene Chloride	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Bromochloromethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Chloroform	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Trichloroethene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Dibromomethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0806S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Chlorobenzene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Bromoform	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
Bromobenzene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-6-19	8-6-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-6-19	8-6-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*76-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Chloromethane	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	8-8-19	8-8-19	
Bromomethane	ND	0.0013	EPA 8260C	8-8-19	8-8-19	
Chloroethane	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Iodomethane	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
Methylene Chloride	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Bromochloromethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Chloroform	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-8-19	8-8-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Trichloroethene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Dibromomethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Chlorobenzene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Bromoform	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
Bromobenzene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-8-19	8-8-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-19	8-8-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*76-131*				
Toluene-d8	*93*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0806S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0480**	**0.0473**	0.0500	0.0500	96	95	57-133	1	18	
Benzene	**0.0457**	**0.0450**	0.0500	0.0500	91	90	71-129	2	16	
Trichloroethene	**0.0551**	**0.0532**	0.0500	0.0500	110	106	71-122	4	16	
Toluene	**0.0527**	**0.0522**	0.0500	0.0500	105	104	74-125	1	15	
Chlorobenzene	**0.0529**	**0.0531**	0.0500	0.0500	106	106	72-120	0	14	
Surrogate:										
Dibromofluoromethane					*94*	*92*	*76-131*			
Toluene-d8					*101*	*98*	*78-128*			
4-Bromofluorobenzene					*100*	*94*	*71-130*			
Laboratory ID:	SB0808S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0432**	**0.0482**	0.0500	0.0500	86	96	57-133	11	18	
Benzene	**0.0417**	**0.0463**	0.0500	0.0500	83	93	71-129	10	16	
Trichloroethene	**0.0516**	**0.0547**	0.0500	0.0500	103	109	71-122	6	16	
Toluene	**0.0478**	**0.0537**	0.0500	0.0500	96	107	74-125	12	15	
Chlorobenzene	**0.0515**	**0.0550**	0.0500	0.0500	103	110	72-120	7	14	
Surrogate:										
Dibromofluoromethane					*89*	*93*	*76-131*			
Toluene-d8					*99*	*101*	*78-128*			
4-Bromofluorobenzene					*98*	*97*	*71-130*			

Date of Report: August 8, 2019
Samples Submitted: August 6, 2019
Laboratory Reference: 1908-069
Project: 82302-9.3

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
S91 E07:2ft	08-069-01	**8**	8-6-19
N15 E80:1.75ft	08-069-02	**10**	8-6-19
N14.5 E79:1ft	08-069-03	**10**	8-6-19
N15.5 E81:1ft	08-069-04	**12**	8-6-19
N16.5 E80:1ft	08-069-05	**12**	8-6-19
N13.5 E80.5:1ft	08-069-06	**15**	8-6-19
S05 E44.5:2.5ft	08-069-07	**14**	8-6-19
S11 E46.5:2.5ft	08-069-08	**16**	8-6-19

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

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

Company: Kane Environmental
Project Number: 82302-9.3
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Jeff Jensen

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

Laboratory Number: 08-069

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
1	S91 E07: 2ft	8/6/19	0840	S	4						X																X
2	N15 E80: 1.75ft		1050								X																X
3	N14.5 E79: 1 ft		1113								X																X
4	N15.5 E81: 1 ft		1125								X																X
5	N16.5 E80: 1ft		1140								X																X
6	N13.5 E80.5: 1ft		1150								X																X
7	S05 E44.5: 2.5ft		1210								X																X
8	S11 E46.5: 2.5ft	↓	1220	↓	↓						X																X

	Signature	Company	Date	Time
Relinquished		Kane	8/6/19	1316
Received		OSE	8/6/19	1316
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Need 0.08 ppb detection limit for VC

Results ASAP, prelims

Data Package: Standard ☒ Level III ☐ Level IV ☐

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

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

August 13, 2019

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.3
Laboratory Reference No. 1908-147

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2019.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 13, 2019
Samples Submitted: August 12, 2019
Laboratory Reference: 1908-147
Project: 82302-9.3

Case Narrative

Samples were collected on August 12, 2019 and received by the laboratory on August 12, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 13, 2019
Samples Submitted: August 12, 2019
Laboratory Reference: 1908-147
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N1, E41:2.5**					
Laboratory ID:	08-147-01					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-12-19	8-12-19	
Chloromethane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Vinyl Chloride	ND	0.000044	EPA 8260C/SIM	8-12-19	8-12-19	
Bromomethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Chloroethane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Iodomethane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Methylene Chloride	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Bromochloromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Chloroform	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Trichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Dibromomethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	

Date of Report: August 13, 2019
Samples Submitted: August 12, 2019
Laboratory Reference: 1908-147
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N1, E41:2.5**					
Laboratory ID:	08-147-01					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Tetrachloroethene	0.014	0.00088	EPA 8260C	8-12-19	8-12-19	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Chlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Bromoform	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Bromobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*76-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

Date of Report: August 13, 2019
Samples Submitted: August 12, 2019
Laboratory Reference: 1908-147
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S5, E 46.5:2.5**					
Laboratory ID:	08-147-02					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	8-12-19	8-12-19	
Chloromethane	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
Vinyl Chloride	ND	0.000035	EPA 8260C/SIM	8-12-19	8-12-19	
Bromomethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Chloroethane	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
Trichlorofluoromethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Iodomethane	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
Methylene Chloride	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
(trans) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
2,2-Dichloropropane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
(cis) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Bromochloromethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Chloroform	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,1,1-Trichloroethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Carbon Tetrachloride	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloropropene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloroethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Trichloroethene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloropropane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Dibromomethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Bromodichloromethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
(cis) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
(trans) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S5, E 46.5:2.5**					
Laboratory ID:	08-147-02					
1,1,2-Trichloroethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Tetrachloroethene	0.056	0.00070	EPA 8260C	8-12-19	8-12-19	
1,3-Dichloropropane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Dibromochloromethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromoethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Chlorobenzene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Bromoform	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
Bromobenzene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichloropropane	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
2-Chlorotoluene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
4-Chlorotoluene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,3-Dichlorobenzene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,4-Dichlorobenzene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,2-Dichlorobenzene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
1,2,4-Trichlorobenzene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichlorobenzene	ND	0.00070	EPA 8260C	8-12-19	8-12-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*76-131*				
Toluene-d8	*94*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S9, E44:5.5**					
Laboratory ID:	08-147-03					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-12-19	8-12-19	
Chloromethane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Vinyl Chloride	ND	0.000044	EPA 8260C/SIM	8-12-19	8-12-19	
Bromomethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Chloroethane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Iodomethane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Methylene Chloride	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Bromochloromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Chloroform	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Trichloroethene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Dibromomethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S9, E44:5.5**					
Laboratory ID:	08-147-03					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Tetrachloroethene	0.063	0.00088	EPA 8260C	8-12-19	8-12-19	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Chlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Bromoform	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
Bromobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-12-19	8-12-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*76-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*107*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S17 E47.5:2.5**					
Laboratory ID:	08-147-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-12-19	8-12-19	
Chloromethane	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
Vinyl Chloride	ND	0.000048	EPA 8260C/SIM	8-12-19	8-12-19	
Bromomethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Chloroethane	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Iodomethane	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
Methylene Chloride	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Bromochloromethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Chloroform	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Trichloroethene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Dibromomethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Bromodichloromethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	

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Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S17 E47.5:2.5**					
Laboratory ID:	08-147-04					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Tetrachloroethene	0.0059	0.00096	EPA 8260C	8-12-19	8-12-19	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Dibromochloromethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Chlorobenzene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Bromoform	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
Bromobenzene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
2-Chlorotoluene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
4-Chlorotoluene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	8-12-19	8-12-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*76-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25, E43:2.5**					
Laboratory ID:	08-147-05					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-12-19	8-12-19	
Chloromethane	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
Vinyl Chloride	ND	0.000043	EPA 8260C/SIM	8-12-19	8-12-19	
Bromomethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Chloroethane	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
Trichlorofluoromethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Iodomethane	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
Methylene Chloride	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
2,2-Dichloropropane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Bromochloromethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Chloroform	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Carbon Tetrachloride	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloropropene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloroethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Trichloroethene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloropropane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Dibromomethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Bromodichloromethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	

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Samples Submitted: August 12, 2019
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Project: 82302-9.3

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25, E43:2.5**					
Laboratory ID:	08-147-05					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Tetrachloroethene	0.0072	0.00085	EPA 8260C	8-12-19	8-12-19	
1,3-Dichloropropane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Dibromochloromethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromoethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Chlorobenzene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Bromoform	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
Bromobenzene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
2-Chlorotoluene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
4-Chlorotoluene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260C	8-12-19	8-12-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*76-131*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

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Samples Submitted: August 12, 2019
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Project: 82302-9.3

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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:	MB0812S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-12-19	8-12-19	
Chloromethane	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	8-12-19	8-12-19	
Bromomethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Chloroethane	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Iodomethane	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
Methylene Chloride	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Bromochloromethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Chloroform	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Trichloroethene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Dibromomethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	

Date of Report: August 13, 2019
Samples Submitted: August 12, 2019
Laboratory Reference: 1908-147
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0812S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Chlorobenzene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Bromoform	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
Bromobenzene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-12-19	8-12-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-12-19	8-12-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*89*	*76-131*				
Toluene-d8	*94*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

Date of Report: August 13, 2019
Samples Submitted: August 12, 2019
Laboratory Reference: 1908-147
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0812S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0487**	**0.0472**	0.0500	0.0500	97	94	57-133	3	18	
Benzene	**0.0477**	**0.0467**	0.0500	0.0500	95	93	71-129	2	16	
Trichloroethene	**0.0589**	**0.0539**	0.0500	0.0500	118	108	71-122	9	16	
Toluene	**0.0565**	**0.0520**	0.0500	0.0500	113	104	74-125	8	15	
Chlorobenzene	**0.0568**	**0.0548**	0.0500	0.0500	114	110	72-120	4	14	
Surrogate:										
Dibromofluoromethane					*90*	*89*	*76-131*			
Toluene-d8					*99*	*95*	*78-128*			
4-Bromofluorobenzene					*102*	*101*	*71-130*			

Date of Report: August 13, 2019
Samples Submitted: August 12, 2019
Laboratory Reference: 1908-147
Project: 82302-9.3

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
N1, E41:2.5	08-147-01	**12**	8-12-19
S5, E 46.5:2.5	08-147-02	**9**	8-12-19
S9, E44:5.5	08-147-03	**8**	8-12-19
S17 E47.5:2.5	08-147-04	**8**	8-12-19
S25, E43:2.5	08-147-05	**9**	8-12-19

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

Page 1 of 1

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

Company: Kane Environmental
Project Number: 82302-9.3
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: EM

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

Laboratory Number: 08-147

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	N1, E41 : 2.5	8/12/19	1130	Soil	4						X												
2	S5, E46.5 : 2.5		1140		4						X												
3	S9, E 44 : 5.5		1158		4						X												
4	S17, E47.5 : 2.5		1205		4						X												
5	S25, E43 : 2.5		1215		4						X												

	Signature	Company	Date	Time
Relinquished		Kane	8/12/19	1328
Received		OSE	8/12/19	1328
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Low level 0.08 ppb DL for VC
Results ASAP

Data Package: Standard ☐ Level III ☐ Level IV ☐

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

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

August 14, 2019

Jeff Jensen
Kane Environmental, Inc.
4015 13th Avenue West
Seattle, WA 98119

Re: Analytical Data for Project 82302-9.3
Laboratory Reference No. 1908-162

Dear Jeff:

Enclosed are the analytical results and associated quality control data for samples submitted on August 13, 2019.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

Case Narrative

Samples were collected on August 13, 2019 and received by the laboratory on August 13, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S20.5 E51:5ft**					
Laboratory ID:	08-162-01					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-13-19	8-13-19	
Chloromethane	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
Vinyl Chloride	ND	0.000044	EPA 8260C/SIM	8-13-19	8-13-19	
Bromomethane	ND	0.0011	EPA 8260C	8-13-19	8-13-19	
Chloroethane	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Iodomethane	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
Methylene Chloride	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Bromochloromethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Chloroform	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Trichloroethene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Dibromomethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S20.5 E51:5ft**					
Laboratory ID:	08-162-01					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Tetrachloroethene	0.013	0.00088	EPA 8260C	8-13-19	8-13-19	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Chlorobenzene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Bromoform	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
Bromobenzene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-13-19	8-13-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*76-131*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25 E40:3ft**					
Laboratory ID:	08-162-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-13-19	8-13-19	
Chloromethane	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
Vinyl Chloride	ND	0.000036	EPA 8260C/SIM	8-13-19	8-13-19	
Bromomethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Chloroethane	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
Trichlorofluoromethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Iodomethane	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
Methylene Chloride	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
(trans) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
2,2-Dichloropropane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
(cis) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Bromochloromethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Chloroform	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,1,1-Trichloroethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Carbon Tetrachloride	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloropropene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloroethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Trichloroethene	0.0070	0.00073	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloropropane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Dibromomethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Bromodichloromethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
(cis) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
(trans) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25 E40:3ft**					
Laboratory ID:	08-162-02					
1,1,2-Trichloroethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Tetrachloroethene	0.019	0.00073	EPA 8260C	8-13-19	8-13-19	
1,3-Dichloropropane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Dibromochloromethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromoethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Chlorobenzene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,1,1,2-Tetrachloroethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Bromoform	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
Bromobenzene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,1,2,2-Tetrachloroethane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichloropropane	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
2-Chlorotoluene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
4-Chlorotoluene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,3-Dichlorobenzene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,4-Dichlorobenzene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,2-Dichlorobenzene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
1,2,4-Trichlorobenzene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichlorobenzene	ND	0.00073	EPA 8260C	8-13-19	8-13-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*76-131*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25 E36:5.5ft**					
Laboratory ID:	08-162-03					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-13-19	8-13-19	
Chloromethane	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
Vinyl Chloride	ND	0.000045	EPA 8260C/SIM	8-13-19	8-13-19	
Bromomethane	ND	0.0012	EPA 8260C	8-13-19	8-13-19	
Chloroethane	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Iodomethane	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
Methylene Chloride	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Bromochloromethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Chloroform	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Trichloroethene	0.0050	0.00090	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Dibromomethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25 E36:5.5ft**					
Laboratory ID:	08-162-03					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Tetrachloroethene	0.030	0.00090	EPA 8260C	8-13-19	8-13-19	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Chlorobenzene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Bromoform	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
Bromobenzene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-13-19	8-13-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*76-131*				
Toluene-d8	*94*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S29 E30:2.5ft**					
Laboratory ID:	08-162-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-13-19	8-13-19	
Chloromethane	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
Vinyl Chloride	ND	0.000042	EPA 8260C/SIM	8-13-19	8-13-19	
Bromomethane	ND	0.0011	EPA 8260C	8-13-19	8-13-19	
Chloroethane	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Iodomethane	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
Methylene Chloride	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Bromochloromethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Chloroform	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Trichloroethene	0.018	0.00084	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Dibromomethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S29 E30:2.5ft**					
Laboratory ID:	08-162-04					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Tetrachloroethene	0.16	0.00084	EPA 8260C	8-13-19	8-13-19	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Chlorobenzene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Bromoform	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
Bromobenzene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-13-19	8-13-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*76-131*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25 E40:2.5ft**					
Laboratory ID:	08-162-05					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-13-19	8-13-19	
Chloromethane	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
Vinyl Chloride	ND	0.000041	EPA 8260C/SIM	8-13-19	8-13-19	
Bromomethane	ND	0.0011	EPA 8260C	8-13-19	8-13-19	
Chloroethane	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
Trichlorofluoromethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Iodomethane	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
Methylene Chloride	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
2,2-Dichloropropane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Bromochloromethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Chloroform	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Carbon Tetrachloride	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloropropene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloroethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Trichloroethene	0.0040	0.00082	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloropropane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Dibromomethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Bromodichloromethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S25 E40:2.5ft**					
Laboratory ID:	08-162-05					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Tetrachloroethene	0.066	0.00082	EPA 8260C	8-13-19	8-13-19	
1,3-Dichloropropane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Dibromochloromethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromoethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Chlorobenzene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Bromoform	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
Bromobenzene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
2-Chlorotoluene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
4-Chlorotoluene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260C	8-13-19	8-13-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*76-131*				
Toluene-d8	*92*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

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Project: 82302-9.3

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S18 E45:7ft**					
Laboratory ID:	08-162-06					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-13-19	8-13-19	
Chloromethane	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
Vinyl Chloride	ND	0.000047	EPA 8260C/SIM	8-13-19	8-13-19	
Bromomethane	ND	0.0012	EPA 8260C	8-13-19	8-13-19	
Chloroethane	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Iodomethane	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
Methylene Chloride	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Bromochloromethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Chloroform	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Trichloroethene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Dibromomethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**S18 E45:7ft**					
Laboratory ID:	08-162-06					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Tetrachloroethene	0.0024	0.00095	EPA 8260C	8-13-19	8-13-19	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Chlorobenzene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Bromoform	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
Bromobenzene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-13-19	8-13-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*76-131*				
Toluene-d8	*93*	*78-128*				
4-Bromofluorobenzene	*106*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0813S1					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-13-19	8-13-19	
Chloromethane	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
Vinyl Chloride	ND	0.000050	EPA 8260C/SIM	8-13-19	8-13-19	
Bromomethane	ND	0.0013	EPA 8260C	8-13-19	8-13-19	
Chloroethane	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Iodomethane	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
Methylene Chloride	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Bromochloromethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Chloroform	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Trichloroethene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Dibromomethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0813S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Chlorobenzene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Bromoform	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
Bromobenzene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-13-19	8-13-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-13-19	8-13-19	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*76-131*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*104*	*71-130*				

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

VOLATILE ORGANICS EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0813S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0455**	**0.0442**	0.0500	0.0500	91	88	57-133	3	18	
Benzene	**0.0464**	**0.0444**	0.0500	0.0500	93	89	71-129	4	16	
Trichloroethene	**0.0578**	**0.0538**	0.0500	0.0500	116	108	71-122	7	16	
Toluene	**0.0541**	**0.0507**	0.0500	0.0500	108	101	74-125	6	15	
Chlorobenzene	**0.0540**	**0.0524**	0.0500	0.0500	108	105	72-120	3	14	
Surrogate:										
Dibromofluoromethane					*87*	*85*	*76-131*			
Toluene-d8					*97*	*96*	*78-128*			
4-Bromofluorobenzene					*103*	*101*	*71-130*			

Date of Report: August 14, 2019
Samples Submitted: August 13, 2019
Laboratory Reference: 1908-162
Project: 82302-9.3

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
S20.5 E51:5ft	08-162-01	**19**	8-13-19
S25 E40:3ft	08-162-02	**10**	8-13-19
S25 E36:5.5ft	08-162-03	**19**	8-13-19
S29 E30:2.5ft	08-162-04	**10**	8-13-19
S25 E40:2.5ft	08-162-05	**9**	8-13-19
S18 E45:7ft	08-162-06	**7**	8-13-19

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

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

Chain of Custody

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

Company: Kane Environmental
Project Number: 82302-9.3
Project Name: BSCSS
Project Manager: Jeff Jensen
Sampled by: Jeff Jensen

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

Laboratory Number: 08-162

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	S20.5 E51:5 Ft	8/13/19	0910	S	4
2	S25 E40:3Ft		1112		
3	S25 E36:5.5Ft		1130		
4	S29 E30: 2.5Ft		1145		
5	S25 E40: 2.5Ft		1157		
6	S18 E45: 7Ft		1207		

Lab ID	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						X												X
2						X												X
3						X												X
4						X												X
5						X												X
6						X												X

	Signature	Company	Date	Time
Relinquished		Kane	8/13/19	1316
Received		OSE	8/13/19	1316
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Need 0.08ppb detection limit for ~~VOC~~ VC
JJ

Results by 8/14 EOD

Data Package: Standard ☑ Level III ☐ Level IV ☐

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