



TECHNICAL MEMORANDUM

DATE May 28, 2019

Project No. 923-1000-005.5000

TO Jerome Cruz, PhD
Washington State Department of Ecology

CC Landsburg PLP Group

FROM Gary Zimmerman

EMAIL gary_zimmerman@golder.com

LANDSBURG MINE SITE TRENCH BACKFILL INITIAL SOILS CHARACTERIZATION

This Trench Backfill Initial Soils Characterization technical memorandum for the Landsburg Mine Site (Landsburg Site) summarizes the initial soil sampling and analysis completed at the Microsoft excavation site in accordance with the Trench Backfill Soils Characterization Workplan¹ (Workplan).

Golder Associates Inc. (Golder) and our subcontractor Goodfellow Bros Inc. (GBI) completed the initial round of sampling on May 14, 2019. All the fill soils for the Landsburg Site is anticipated to come from Cells 1through 3 of the planned excavation area (Figure 1). Currently only Cell 1 is accessible for excavation and collection of soil samples. Five test pits distributed throughout Cell 1 were excavated to allow collection of representative soil samples from the Cell 1 excavation area. A distinct grab sample was collected from each of the five test pits. The test pits were excavated after the top 4 feet of soil were stripped and native glacial deposited soils were encountered. Only soil deeper than 4 feet below ground surface will be transported to the Landsburg Site and used as trench backfill. The test pits were dug at a depth of approximately 5 to 7 feet below the original ground surface. Locations of the test pits and Cells 1through 3 are provided in Figure 1. Soils sampled from the test pits were generally consistent in composition and were described as silty-fine to medium sand with trace to little sub-rounded fine gravels.

The five soil samples were delivered to OnSite Environmental Inc. (OnSite) in Redmond, WA and analyzed for the full list of analytes presented in Table 1 (Table 3-1 of the Workplan). There were no organic compounds detected in any of the soil samples. Chromium was the only metal detected in any of the samples. Chromium was detected in all five of the samples at concentrations ranging from 30 to 45 milligrams per kilogram (mg/kg), which are concentrations typical of natural background soil concentrations (90th percentile concentration of 48 mg/kg) for the Puget Sound Area² and below the Model Toxics Control Act (MTCA) Method A Level of 2,000 mg/kg for unrestricted land use.

A copy of the laboratory analytical report is provided in Appendix A.

¹ Golder Associates Inc. (Golder) 2019. Trench Backfill Soils Characterization Workplan, Landsburg Mine Site. Prepared by Golder Associates Inc. April 17, 2019.

² Washington State Department of Ecology (Ecology) 1994. Natural Background Soil Metals Concentrations in Washington State. Prepared by Charles San Juan, October 1994.

The soil sampling and analysis confirmed the soil derived from Cell 1 of the Microsoft excavation is free of contaminants including the potential to leach contaminants to the groundwater. The soil is deemed suitable for use as fill at the Site.

Additional soils characterization of Cell 2 and Cell 3 will be completed when they become accessible and the top 4 feet of soil is removed. Five additional test pits will be installed across Cell 2 and Cell 3 as indicated on Figure 1, and five distinct samples will be collected and analyzed for the analytes listed on Table 1. Further confirmation of deeper soils within Cells 1, 2, and 3 will occur throughout the excavation process by sampling and analysis for fuels and metals in accordance with Table 2 (Table 3-2 of the Workplan). The additional sampling will be conducted on a frequency that will result in at least 10 percent confirmation sampling and analysis of all soil imported to the Site. In addition to the sampling and analysis described within this memorandum, field screening of soils will occur both at the Microsoft excavation site and of the soil transported to the Landsburg Site as described in the Workplan.

GOLDER ASSOCIATES INC.



Joseph Xi, PE
Senior Project Engineer

JX/GLZ/kt



Gary Zimmerman
Principal

Attachments:

Table 1: Analytes and Analytical Methods for Initial Confirmation Soil Sampling

Table 2: Analytes and Analytical Methods for Ongoing Confirmation Soil Sampling

Figure 1: Soil Characterization Locations

Appendix A: Laboratory Analytical Report

w:\projects_1992 projects\923-1000\2019-construction-activities\fill source sampling\923-1000-005.5000-tm-rev0-fill source sampling-052419.docx

Tables

Table 1: Analytes and Analytical Methods for Initial Confirmation Soil Sampling

Category / Analyte	Reference Method ^a	MDL ^a	RL ^b	Units
Fuels				
TPH-gasoline	NWTPH-Gx	0.703	5	mg/kg
TPH-diesel	NWTPH-Dx	8.31	25	mg/kg
TPH-oil	NWTPH-Dx	17.2	50	mg/kg
Metals				
Arsenic	SW 6010	1.95	10	mg/kg
Cadmium	SW 6010	0.102	0.5	mg/kg
Total Chromium	SW 6010	0.076	0.5	mg/kg
Lead	SW 6010	1.42	5	mg/kg
Mercury	EPA 7471B	0.0002	0.25	mg/kg
Pesticides				
Aldrin	8081B	0.812	5	ug/kg
alpha-BHC	8081B	0.912	5	ug/kg
beta-BHC	8081B	0.727	5	ug/kg
delta-BHC	8081B	1.31	5	ug/kg
gamma-BHC	8081B	0.822	5	ug/kg
alpha-Chlordane	8081B	0.709	10	ug/kg
gamma-Chlordane	8081B	0.723	10	ug/kg
4,4'-DDD	8081B	0.575	10	ug/kg
4,4'-DDE	8081B	0.766	10	ug/kg
4,4'-DDT	8081B	0.593	10	ug/kg
Dieldrin	8081B	0.627	10	ug/kg
Endosulfan I	8081B	0.71	5	ug/kg
Endosulfan II	8081B	0.624	10	ug/kg
Endosulfan sulfate	8081B	0.474	10	ug/kg
Endrin	8081B	0.637	10	ug/kg
Endrin aldehyde	8081B	0.585	10	ug/kg
Endrin ketone	8081B	0.678	10	ug/kg
Heptachlor	8081B	0.942	5	ug/kg
Heptachlor epoxide	8081B	0.682	5	ug/kg
Methoxychlor	8081B	1.62	10	ug/kg
Toxaphene	8081B	17.7	50	ug/kg
Herbicides				
Dalapon	8151A	52.7	230	ug/kg
2,4,6-Trichlorophenol	8151A	3.67	4.7	ug/kg
Dicamba	8151A	7.33	9.4	ug/kg
MCPP	8151A	263	940	ug/kg
MCPA	8151A	659	940	ug/kg
Dichlorprop	8151A	6.73	71	ug/kg
2,4-D	8151A	7.95	9.4	ug/kg
Pentachlorophenol	8151A	0.351	4.8	ug/kg
2,4,5-TP	8151A	3.5	9.5	ug/kg
2,4,5-T	8151A	6.95	9.5	ug/kg
2,4-DB	8151A	4.17	9.5	ug/kg
Dinoseb	8151A	8.57	9.5	ug/kg

Table 1: Analytes and Analytical Methods for Initial Confirmation Soil Sampling

Category / Analyte	Reference Method ^a	MDL ^a	RL ^b	Units
VOCs				
Dichlorodifluoromethane	8260C	0.35	1	ug/kg
Chloromethane	8260C	1.09	5	ug/kg
Vinyl Chloride	8260C	0.25	1	ug/kg
Bromomethane	8260C	0.46	1	ug/kg
Chloroethane	8260C	0.94	5	ug/kg
Trichlorofluoromethane	8260C	0.19	1	ug/kg
1,1-Dichloroethene	8260C	0.40	1	ug/kg
Acetone	8260C	2.37	10	ug/kg
Iodomethane	8260C	1.25	5	ug/kg
Carbon Disulfide	8260C	0.25	1	ug/kg
Methylene Chloride	8260C	2.48	5	ug/kg
(trans) 1,2-Dichloroethene	8260C	0.17	1	ug/kg
Methyl t-Butyl Ether	8260C	0.20	1	ug/kg
1,1-Dichloroethane	8260C	0.28	1	ug/kg
Vinyl Acetate	8260C	0.74	5	ug/kg
2,2-Dichloropropane	8260C	0.18	1	ug/kg
(cis) 1,2-Dichloroethene	8260C	0.17	1	ug/kg
2-Butanone	8260C	1.46	5	ug/kg
Bromochloromethane	8260C	0.33	1	ug/kg
Chloroform	8260C	0.19	1	ug/kg
1,1,1-Trichloroethane	8260C	0.25	1	ug/kg
Carbon Tetrachloride	8260C	0.26	1	ug/kg
1,1-Dichloropropene	8260C	0.27	1	ug/kg
Benzene	8260C	0.16	1	ug/kg
1,2-Dichloroethane	8260C	0.22	1	ug/kg
Trichloroethene	8260C	0.36	1	ug/kg
1,2-Dichloropropane	8260C	0.23	1	ug/kg
Dibromomethane	8260C	0.36	1	ug/kg
Bromodichloromethane	8260C	0.25	1	ug/kg
2-Chloroethyl Vinyl Ether	8260C	0.68	6.3	ug/kg
(cis) 1,3-Dichloropropene	8260C	0.17	1	ug/kg
Methyl Isobutyl Ketone	8260C	0.53	5	ug/kg
Toluene	8260C	0.21	5	ug/kg
(trans) 1,3-Dichloropropene	8260C	0.22	1	ug/kg
1,1,2-Trichloroethane	8260C	0.33	1	ug/kg
Tetrachloroethene	8260C	0.32	1	ug/kg
1,3-Dichloropropane	8260C	0.23	1	ug/kg
2-Hexanone	8260C	0.85	5	ug/kg
Dibromochloromethane	8260C	0.32	1	ug/kg
1,2-Dibromoethane	8260C	0.28	1	ug/kg
Chlorobenzene	8260C	0.19	1	ug/kg
1,1,1,2-Tetrachloroethane	8260C	0.29	1	ug/kg
Ethylbenzene	8260C	0.17	1	ug/kg
m,p-Xylene	8260C	0.67	2	ug/kg
o-Xylene	8260C	0.17	1	ug/kg

Table 1: Analytes and Analytical Methods for Initial Confirmation Soil Sampling

Category / Analyte	Reference Method ^a	MDL ^a	RL ^b	Units
Styrene	8260C	0.20	1	ug/kg
Bromoform	8260C	0.83	5	ug/kg
Isopropylbenzene	8260C	0.15	1	ug/kg
Bromobenzene	8260C	0.21	1	ug/kg
1,1,2,2-Tetrachloroethane	8260C	0.25	1	ug/kg
1,2,3-Trichloropropane	8260C	0.26	1	ug/kg
n-Propylbenzene	8260C	0.15	1	ug/kg
2-Chlorotoluene	8260C	0.26	1	ug/kg
4-Chlorotoluene	8260C	0.24	1	ug/kg
1,3,5-Trimethylbenzene	8260C	0.15	1	ug/kg
tert-Butylbenzene	8260C	0.15	1	ug/kg
1,2,4-Trimethylbenzene	8260C	0.18	1	ug/kg
sec-Butylbenzene	8260C	0.20	1	ug/kg
1,3-Dichlorobenzene	8260C	0.19	1	ug/kg
p-Isopropyltoluene	8260C	0.15	1	ug/kg
1,4-Dichlorobenzene	8260C	0.20	1	ug/kg
1,2-Dichlorobenzene	8260C	0.15	1	ug/kg
n-Butylbenzene	8260C	0.16	1	ug/kg
1,2-Dibromo-3-chloropropane	8260C	1.43	5	ug/kg
1,2,4-Trichlorobenzene	8260C	0.28	1	ug/kg
Hexachlorobutadiene	8260C	1.38	5	ug/kg
Naphthalene	8260C	0.21	1	ug/kg
1,2,3-Trichlorobenzene	8260C	0.25	1	ug/kg
SVOCS				
n-Nitrosodimethylamine	8270D	0.019	0.033	mg/kg
Pyridine	8270D	0.082	0.33	mg/kg
Phenol	8270D	0.014	0.033	mg/kg
Aniline	8270D	0.068	0.17	mg/kg
bis(2-Chloroethyl)ether	8270D	0.018	0.033	mg/kg
2-Chlorophenol	8270D	0.015	0.033	mg/kg
1,3-Dichlorobenzene	8270D	0.015	0.033	mg/kg
1,4-Dichlorobenzene	8270D	0.014	0.033	mg/kg
Benzyl alcohol	8270D	0.086	0.17	mg/kg
1,2-Dichlorobenzene	8270D	0.014	0.033	mg/kg
2-Methylphenol (o-Cresol)	8270D	0.013	0.033	mg/kg
bis(2-Chloroisopropyl)ether	8270D	0.019	0.033	mg/kg
(3+4)-Methylphenol (m,p-Cresol)	8270D	0.012	0.033	mg/kg
n-Nitroso-di-n-propylamine	8270D	0.015	0.033	mg/kg
Hexachloroethane	8270D	0.014	0.033	mg/kg
Nitrobenzene	8270D	0.016	0.033	mg/kg
Isophorone	8270D	0.012	0.033	mg/kg
2-Nitrophenol	8270D	0.014	0.033	mg/kg
2,4-Dimethylphenol	8270D	0.008	0.033	mg/kg
bis(2-Chloroethoxy)methane	8270D	0.015	0.033	mg/kg
2,4-Dichlorophenol	8270D	0.008	0.033	mg/kg
1,2,4-Trichlorobenzene	8270D	0.015	0.033	mg/kg
Naphthalene	8270D	0.016	0.0067	mg/kg

Table 1: Analytes and Analytical Methods for Initial Confirmation Soil Sampling

Category / Analyte	Reference Method ^a	MDL ^a	RL ^b	Units
4-Chloroaniline	8270D	0.050	0.17	mg/kg
Hexachlorobutadiene	8270D	0.016	0.033	mg/kg
4-Chloro-3-methylphenol	8270D	0.020	0.033	mg/kg
2-Methylnaphthalene	8270D	0.014	0.0067	mg/kg
1-Methylnaphthalene	8270D	0.011	0.0067	mg/kg
Hexachlorocyclopentadiene	8270D	0.010	0.033	mg/kg
2,4,6-Trichlorophenol	8270D	0.006	0.033	mg/kg
2,3-Dichloroaniline	8270D	0.008	0.033	mg/kg
2,4,5-Trichlorophenol	8270D	0.009	0.033	mg/kg
2-Choronaphthalene	8270D	0.010	0.033	mg/kg
2-Nitroaniline	8270D	0.008	0.033	mg/kg
1,4-Dinitrobenzene	8270D	0.007	0.033	mg/kg
Dimethylphthalate	8270D	0.008	0.033	mg/kg
1,3-Dinitrobenzene	8270D	0.006	0.033	mg/kg
2,6-Dinitrotoluene	8270D	0.005	0.033	mg/kg
1,2-Dinitrobenzene	8270D	0.007	0.033	mg/kg
Acenaphthylene	8270D	0.008	0.0067	mg/kg
3-Nitroaniline	8270D	0.005	0.033	mg/kg
2,4-Dinitrophenol	8270D	0.101	0.17	mg/kg
Acenaphthene	8270D	0.011	0.0067	mg/kg
4-Nitrophenol	8270D	0.017	0.033	mg/kg
2,4-Dinitrotoluene	8270D	0.011	0.033	mg/kg
Dibenzofuran	8270D	0.007	0.033	mg/kg
2,3,5,6-Tetrachlorophenol	8270D	0.006	0.033	mg/kg
2,3,4,6-Tetrachlorophenol	8270D	0.006	0.033	mg/kg
Diethylphthalate	8270D	0.007	0.17	mg/kg
4-Chlorophenyl-phenylether	8270D	0.007	0.033	mg/kg
4-Nitroaniline	8270D	0.007	0.033	mg/kg
Fluorene	8270D	0.007	0.0067	mg/kg
4,6-Dinitro-2-methylphenol	8270D	0.007	0.17	mg/kg
n-Nitrosodiphenylamine	8270D	0.007	0.033	mg/kg
1,2-Diphenylhydrazine	8270D	0.008	0.033	mg/kg
4-Bromophenyl-phenylether	8270D	0.006	0.033	mg/kg
Hexachlorobenzene	8270D	0.005	0.033	mg/kg
Pentachlorophenol	8270D	0.012	0.17	mg/kg
Phenanthrene	8270D	0.008	0.0067	mg/kg
Anthracene	8270D	0.007	0.0067	mg/kg
Carbazole	8270D	0.007	0.033	mg/kg
Di-n-butylphthalate	8270D	0.012	0.17	mg/kg
Fluoranthene	8270D	0.008	0.0067	mg/kg
Benzidine	8270D	0.120	0.33	mg/kg
Pyrene	8270D	0.011	0.0067	mg/kg
Butylbenzylphthalate	8270D	0.007	0.17	mg/kg
bis-2-Ethylhexyladipate	8270D	0.007	0.17	mg/kg
3,3'-Dichlorobenzidine	8270D	0.050	0.17	mg/kg
Benzo[a]anthracene	8270D	0.007	0.0067	mg/kg
Chrysene	8270D	0.009	0.0067	mg/kg

Table 1: Analytes and Analytical Methods for Initial Confirmation Soil Sampling

Category / Analyte	Reference Method^a	MDL^a	RL^b	Units
bis(2-Ethylhexyl)phthalate	8270D	0.008	0.17	mg/kg
Di-n-octylphthalate	8270D	0.007	0.17	mg/kg
Benzo[b]fluoranthene	8270D	0.006	0.0067	mg/kg
Benzo[j,k]fluoranthene	8270D	0.009	0.0067	mg/kg
Benzo[a]pyrene	8270D	0.009	0.0067	mg/kg
Indeno[1,2,3-cd]pyrene	8270D	0.008	0.0067	mg/kg
Dibenz[a,h]anthracene	8270D	0.007	0.0067	mg/kg
Benzo[g,h,i]perylene	8270D	0.006	0.0067	mg/kg

Notes:

a- MDL is the Method Detection Limit and is specific to a laboratory from the results of MDL studies performed by the laboratory. The MDLs can change based on the results of future MDL studies.

b- RL is the Reporting Limit and is the laboratory Practical Quantitation Limit (PQL).

RLs are laboratory specific, but shall be considered minimums.

ug/kg - microgram per kilogram

mg/kg - milligram per kilogram

Table 2: Analytes and Analytical Methods for Ongoing Confirmation Soil Sampling

Category / Analyte	Reference Method ^a	MDL ^a	RL ^b	Units
Fuels				
TPH-gasoline	NWTPH-Gx	0.70	5	mg/kg
TPH-diesel	NWTPH-Dx	8.31	25	mg/kg
TPH-oil	NWTPH-Dx	17.2	50	mg/kg
Metals				
Arsenic	SW 6010	1.95	10	mg/kg
Cadmium	SW 6010	0.10	0.5	mg/kg
Total Chromium	SW 6010	0.08	0.5	mg/kg
Lead	SW 6010	1.42	5	mg/kg
Mercury	EPA 7471B	0.0002	0.25	mg/kg

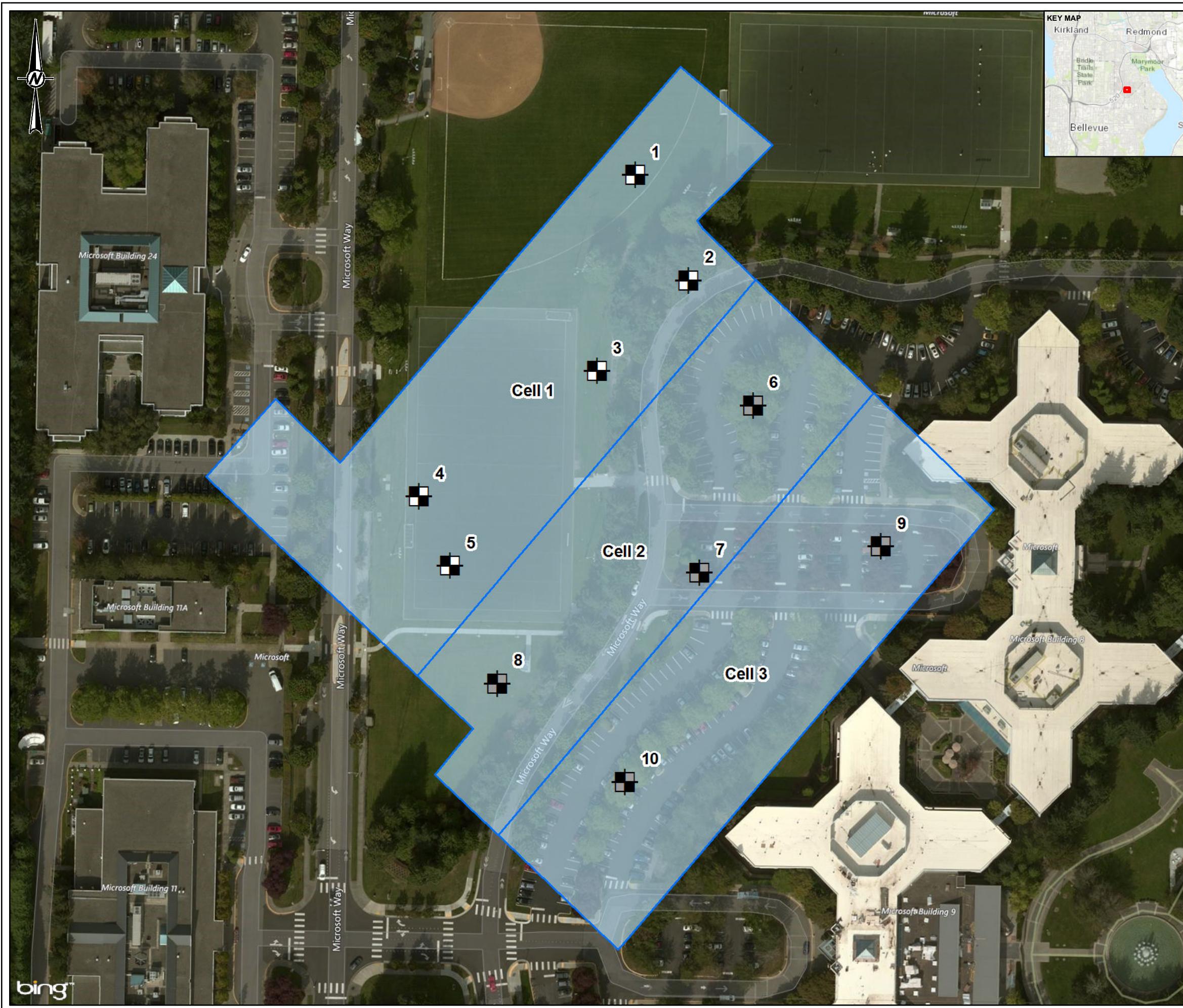
Notes:

a- MDL is the Method Detection Limit and is specific to a laboratory from the results of MDL studies performed by the laboratory. The MDLs can change based on the results of future MDL studies.

b- RL is the Reporting Limit and is the laboratory Practical Quantitation Limit (PQL).

RLs are laboratory specific, but shall be considered minimums.

Figure



LEGEND

-  TEST PIT
-  PROPOSED SUBSEQUENT TEST PIT
-  FILL SOURCE AREA

A horizontal scale bar representing distance. It features a thick black line with a total length of 100 feet. A shorter black segment is positioned at the 0 mark. A white segment follows, ending at the 100 mark. Below the scale bar, the text "1 IN = 100 FT" is centered.

REFERENCE(S)

- REFERENCE(S)**
1. GOODFELLOW BROS INC. (EXCAVATION AREA, 2019)
2. GOLDER ASSOCIATES INC. (TEST PITS, 2019)
3 COORDINATE SYSTEM: NAD 1983 STATE PLANE WASHINGTON NORTH (FT)
4. SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, DELORME, TOMTOM, INTERMAP,
INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCan, GEObase, IGN, KADASTER NL,
ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), SWISSTOPO, MAPMYINDIA,
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CLIENT
LANDSBURG PLP GROUP

PROJECT
LANDSBURG 2019 REMEDIAL ACTIONS

TITLE

SOIL CHARACTERIZATION LOCATIONS

CONSULTANT	YYYY-MM-DD	2019-05-20
DESIGNED	JX	
PREPARED	BVJ	
REVIEWED	JX	
APPROVED	GZ	



PROJECT NO.	PHASE	APPROVED	GZ	REV.	FIGURE
923100005	5000			B	1

APPENDIX A

Laboratory Analytical Report



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

May 22, 2019

Gary Zimmerman
Golder Associates Inc.
18300 NE Union Hill Road
Suite 200
Redmond, WA 98052-3333

Re: Analytical Data for Project 923-1000-005.5000
Laboratory Reference No. 1905-196

Dear Gary:

Enclosed are the analytical results and associated quality control data for samples submitted on May 14, 2019.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 22, 2019
Samples Submitted: May 14, 2019
Laboratory Reference: 1905-196
Project: 923-1000-005.5000

Case Narrative

Samples were collected on May 14, 2019 and received by the laboratory on May 14, 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.

Chlorinated Acid Herbicides EPA 8151A Analysis

Negative effects of the matrix from the samples 3A, 4A, and 5A on the instrument caused values for Dalapon, MCPP, and Dinoseb in the closing continuing calibration verification standards (CCVs) to go low. Because of this, quantitation limits and sample concentrations can be higher than reported.

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



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

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
Gasoline	ND	5.4	NWTPH-Gx	5-16-19	5-17-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	58-129				
Client ID:	2A					
Laboratory ID:	05-196-03					
Gasoline	ND	5.7	NWTPH-Gx	5-16-19	5-17-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	58-129				
Client ID:	3A					
Laboratory ID:	05-196-05					
Gasoline	ND	12	NWTPH-Gx	5-16-19	5-17-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	58-129				
Client ID:	4A					
Laboratory ID:	05-196-07					
Gasoline	ND	6.3	NWTPH-Gx	5-16-19	5-17-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	58-129				
Client ID:	5A					
Laboratory ID:	05-196-09					
Gasoline	ND	5.7	NWTPH-Gx	5-16-19	5-17-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	58-129				



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This report pertains to the samples analyzed in accordance with the chain of custody,
 and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516S5					
Gasoline	ND	5.0	NWTPH-Gx	5-16-19	5-16-19	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	58-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-134-06							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				81	86	58-129		



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

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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
Diesel Range Organics	ND	27	NWTPH-Dx	5-15-19	5-17-19	
Lube Oil Range Organics	ND	53	NWTPH-Dx	5-15-19	5-17-19	
Surrogate: <i>o-Terphenyl</i>	Percent Recovery 80	Control Limits 50-150				
Client ID:	2A					
Laboratory ID:	05-196-03					
Diesel Range Organics	ND	27	NWTPH-Dx	5-15-19	5-17-19	
Lube Oil Range Organics	ND	53	NWTPH-Dx	5-15-19	5-17-19	
Surrogate: <i>o-Terphenyl</i>	Percent Recovery 80	Control Limits 50-150				
Client ID:	3A					
Laboratory ID:	05-196-05					
Diesel Range Organics	ND	28	NWTPH-Dx	5-15-19	5-17-19	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-15-19	5-17-19	
Surrogate: <i>o-Terphenyl</i>	Percent Recovery 78	Control Limits 50-150				
Client ID:	4A					
Laboratory ID:	05-196-07					
Diesel Range Organics	ND	27	NWTPH-Dx	5-15-19	5-17-19	
Lube Oil Range Organics	ND	54	NWTPH-Dx	5-15-19	5-17-19	
Surrogate: <i>o-Terphenyl</i>	Percent Recovery 80	Control Limits 50-150				
Client ID:	5A					
Laboratory ID:	05-196-09					
Diesel Range Organics	ND	27	NWTPH-Dx	5-15-19	5-17-19	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-15-19	5-17-19	
Surrogate: <i>o-Terphenyl</i>	Percent Recovery 88	Control Limits 50-150				



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 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515S4					
Diesel Range Organics	ND	25	NWTPH-Dx	5-15-19	5-15-19	
Lube Oil Range Organics	ND	50	NWTPH-Dx	5-15-19	5-15-19	
Surrogate: <i>o-Terphenyl</i>	Percent Recovery 102	Control Limits 50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0515S4							
	ORIG DUP							
Diesel Fuel #2	90.5	81.8	NA NA	NA	NA	10	NA	
Lube Oil Range	ND	ND	NA NA	NA	NA	NA	NA	
Surrogate: <i>o-Terphenyl</i>				97 87	50-150			



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chloromethane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Vinyl Chloride	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromomethane	ND	0.0016	EPA 8260C	5-15-19	5-15-19	
Chloroethane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Acetone	ND	0.011	EPA 8260C	5-15-19	5-15-19	
Iodomethane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Carbon Disulfide	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methylene Chloride	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Vinyl Acetate	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Butanone	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Bromochloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chloroform	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Benzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Trichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Dibromomethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromodichloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Toluene	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Tetrachloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Hexanone	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Dibromochloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Ethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
m,p-Xylene	ND	0.0023	EPA 8260C	5-15-19	5-15-19	
o-Xylene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Styrene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromoform	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Isopropylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
n-Propylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
4-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
tert-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
sec-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
n-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Naphthalene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	98	76-131				
Toluene-d8	100	78-128				
4-Bromofluorobenzene	98	71-130				



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	2A					
Laboratory ID:	05-196-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chloromethane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Vinyl Chloride	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromomethane	ND	0.0016	EPA 8260C	5-15-19	5-15-19	
Chloroethane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Acetone	ND	0.011	EPA 8260C	5-15-19	5-15-19	
Iodomethane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Carbon Disulfide	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methylene Chloride	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Vinyl Acetate	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Butanone	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Bromochloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chloroform	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Benzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Trichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Dibromomethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromodichloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Toluene	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	



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 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	2A					
Laboratory ID:	05-196-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Tetrachloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Hexanone	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Dibromochloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Ethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
m,p-Xylene	ND	0.0023	EPA 8260C	5-15-19	5-15-19	
o-Xylene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Styrene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromoform	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Isopropylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
n-Propylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
4-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
tert-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
sec-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
n-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	5-15-19	5-15-19	
Naphthalene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	76-131				
Toluene-d8	99	78-128				
4-Bromofluorobenzene	99	71-130				



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 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	3A					
Laboratory ID:	05-196-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chloromethane	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Vinyl Chloride	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromomethane	ND	0.0016	EPA 8260C	5-15-19	5-15-19	
Chloroethane	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Acetone	ND	0.011	EPA 8260C	5-15-19	5-15-19	
Iodomethane	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Carbon Disulfide	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methylene Chloride	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Vinyl Acetate	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Butanone	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Bromochloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chloroform	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Benzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Trichloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Dibromomethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromodichloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Toluene	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	



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 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	3A					
Laboratory ID:	05-196-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Tetrachloroethene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Hexanone	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Dibromochloromethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Chlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Ethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
m,p-Xylene	ND	0.0022	EPA 8260C	5-15-19	5-15-19	
o-Xylene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Styrene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromoform	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Isopropylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Bromobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
n-Propylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
2-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
4-Chlorotoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
tert-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
sec-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
n-Butylbenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	5-15-19	5-15-19	
Naphthalene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	97	76-131				
Toluene-d8	101	78-128				
4-Bromofluorobenzene	98	71-130				



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

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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	4A					
Laboratory ID:	05-196-07					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Chloromethane	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Vinyl Chloride	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Bromomethane	ND	0.0013	EPA 8260C	5-15-19	5-15-19	
Chloroethane	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Acetone	ND	0.0093	EPA 8260C	5-15-19	5-15-19	
Iodomethane	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Carbon Disulfide	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Methylene Chloride	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Methyl t-Butyl Ether	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Vinyl Acetate	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
2-Butanone	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Bromochloromethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Chloroform	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Benzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Trichloroethene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Dibromomethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Bromodichloromethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Methyl Isobutyl Ketone	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Toluene	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	4A					
Laboratory ID:	05-196-07					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Tetrachloroethene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
2-Hexanone	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Dibromochloromethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Chlorobenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Ethylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
m,p-Xylene	ND	0.0019	EPA 8260C	5-15-19	5-15-19	
o-Xylene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Styrene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Bromoform	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Isopropylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Bromobenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
n-Propylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
2-Chlorotoluene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
4-Chlorotoluene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,3,5-Trimethylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
tert-Butylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trimethylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
sec-Butylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
p-Isopropyltoluene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
n-Butylbenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	5-15-19	5-15-19	
Naphthalene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	94	76-131				
Toluene-d8	102	78-128				
4-Bromofluorobenzene	101	71-130				



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	5A					
Laboratory ID:	05-196-09					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Chloromethane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Vinyl Chloride	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromomethane	ND	0.0014	EPA 8260C	5-15-19	5-15-19	
Chloroethane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Acetone	ND	0.010	EPA 8260C	5-15-19	5-15-19	
Iodomethane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Carbon Disulfide	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Methylene Chloride	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Vinyl Acetate	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Butanone	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Bromochloromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Chloroform	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Benzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Trichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Dibromomethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Toluene	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	5A					
Laboratory ID:	05-196-09					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Hexanone	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Chlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Ethylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
m,p-Xylene	ND	0.0020	EPA 8260C	5-15-19	5-15-19	
o-Xylene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Styrene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromoform	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Isopropylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
n-Propylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
tert-Butylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
sec-Butylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
n-Butylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Naphthalene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	96	76-131				
Toluene-d8	101	78-128				
4-Bromofluorobenzene	101	71-130				



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

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:	MB0515S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Chloromethane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Vinyl Chloride	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromomethane	ND	0.0014	EPA 8260C	5-15-19	5-15-19	
Chloroethane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Acetone	ND	0.010	EPA 8260C	5-15-19	5-15-19	
Iodomethane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Carbon Disulfide	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Methylene Chloride	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Vinyl Acetate	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Butanone	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Bromochloromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Chloroform	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Benzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Trichloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Dibromomethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromodichloromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Toluene	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	



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 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0515S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Tetrachloroethene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Hexanone	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Dibromochloromethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Chlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Ethylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
m,p-Xylene	ND	0.0020	EPA 8260C	5-15-19	5-15-19	
o-Xylene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Styrene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromoform	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Isopropylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Bromobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
n-Propylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
2-Chlorotoluene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
4-Chlorotoluene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
tert-Butylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
sec-Butylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
n-Butylbenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	5-15-19	5-15-19	
Naphthalene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	95	76-131				
Toluene-d8	102	78-128				
4-Bromofluorobenzene	102	71-130				



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

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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result	Spike Level		Percent Recovery		Recovery Limits	RPD RPD	RPD Limit	Flags					
		SB	SBD	SB	SBD									
SPIKE BLANKS														
Laboratory ID:		SB0515S1												
1,1-Dichloroethene	0.0355	0.0367	0.0500	0.0500	71	73	57-133	3	18					
Benzene	0.0404	0.0413	0.0500	0.0500	81	83	71-129	2	16					
Trichloroethene	0.0446	0.0469	0.0500	0.0500	89	94	71-122	5	16					
Toluene	0.0455	0.0469	0.0500	0.0500	91	94	74-125	3	15					
Chlorobenzene	0.0445	0.0459	0.0500	0.0500	89	92	72-120	3	14					
<i>Surrogate:</i>														
<i>Dibromofluoromethane</i>					97	95	76-131							
<i>Toluene-d8</i>					100	102	78-128							
<i>4-Bromofluorobenzene</i>					101	100	71-130							



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Pyridine	ND	0.36	EPA 8270D	5-15-19	5-17-19	
Phenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Aniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2-Chlorophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Benzyl alcohol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	5-15-19	5-17-19	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	5-15-19	5-17-19	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Hexachloroethane	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Nitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Isophorone	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2-Nitrophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Naphthalene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
4-Chloroaniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Hexachlorobutadiene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2-Chloronaphthalene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2-Nitroaniline	ND	0.036	EPA 8270D	5-15-19	5-17-19	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Dimethylphthalate	ND	0.036	EPA 8270D	5-15-19	5-17-19	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
3-Nitroaniline	ND	0.036	EPA 8270D	5-15-19	5-17-19	



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
4-Nitrophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Dibenzofuran	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Diethylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	5-15-19	5-17-19	
4-Nitroaniline	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Fluorene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	5-15-19	5-17-19	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	5-15-19	5-17-19	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Hexachlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Pentachlorophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Phenanthrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Anthracene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Carbazole	ND	0.036	EPA 8270D	5-15-19	5-17-19	
Di-n-butylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Fluoranthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzidine	ND	0.36	EPA 8270D	5-15-19	5-17-19	
Pyrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Butylbenzylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[a]anthracene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Chrysene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Di-n-octylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[b]fluoranthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo(j,k)fluoranthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[a]pyrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Indeno[1,2,3-cd]pyrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[g,h,i]perylene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	73	21 - 107				
Phenol-d6	80	30 - 106				
Nitrobenzene-d5	78	28 - 109				
2-Fluorobiphenyl	81	37 - 107				
2,4,6-Tribromophenol	99	39 - 116				
Terphenyl-d14	100	41 - 113				



Date of Report: May 22, 2019
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 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	2A					
Laboratory ID:	05-196-03					
n-Nitrosodimethylamine	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Pyridine	ND	0.35	EPA 8270D	5-15-19	5-17-19	
Phenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Aniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2-Chlorophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
1,3-Dichlorobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
1,4-Dichlorobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Benzyl alcohol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
1,2-Dichlorobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270D	5-15-19	5-17-19	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270D	5-15-19	5-17-19	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Hexachloroethane	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Nitrobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Isophorone	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2-Nitrophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,4-Dimethylphenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,4-Dichlorophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Naphthalene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
4-Chloroaniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Hexachlorobutadiene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,3-Dichloroaniline	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2-Chloronaphthalene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2-Nitroaniline	ND	0.035	EPA 8270D	5-15-19	5-17-19	
1,4-Dinitrobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Dimethylphthalate	ND	0.035	EPA 8270D	5-15-19	5-17-19	
1,3-Dinitrobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,6-Dinitrotoluene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
1,2-Dinitrobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
3-Nitroaniline	ND	0.035	EPA 8270D	5-15-19	5-17-19	



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 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	2A					
Laboratory ID:	05-196-03					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
4-Nitrophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,4-Dinitrotoluene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Dibenzofuran	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Diethylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270D	5-15-19	5-17-19	
4-Nitroaniline	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Fluorene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270D	5-15-19	5-17-19	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270D	5-15-19	5-17-19	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Hexachlorobenzene	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Pentachlorophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Phenanthrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Anthracene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Carbazole	ND	0.035	EPA 8270D	5-15-19	5-17-19	
Di-n-butylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Fluoranthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzidine	ND	0.35	EPA 8270D	5-15-19	5-17-19	
Pyrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Butylbenzylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[a]anthracene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Chrysene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Di-n-octylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[b]fluoranthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo(j,k)fluoranthene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[a]pyrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Indeno[1,2,3-cd]pyrene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[g,h,i]perylene	ND	0.0071	EPA 8270D/SIM	5-15-19	5-15-19	
Surrogate:	Percent Recovery		Control Limits			
2-Fluorophenol	54		21 - 107			
Phenol-d6	58		30 - 106			
Nitrobenzene-d5	59		28 - 109			
2-Fluorobiphenyl	58		37 - 107			
2,4,6-Tribromophenol	79		39 - 116			
Terphenyl-d14	76		41 - 113			



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

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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	3A					
Laboratory ID:	05-196-05					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Pyridine	ND	0.37	EPA 8270D	5-15-19	5-17-19	
Phenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Aniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Chlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Benzyl alcohol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	5-15-19	5-17-19	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Hexachloroethane	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Nitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Isophorone	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Nitrophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Naphthalene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
4-Chloroaniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Hexachlorobutadiene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Chloronaphthalene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Nitroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Dimethylphthalate	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
3-Nitroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	3A					
Laboratory ID:	05-196-05					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
4-Nitrophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Dibenzofuran	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Diethylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
4-Nitroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Fluorene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Hexachlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Pentachlorophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Anthracene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Carbazole	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Di-n-butylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Benzidine	ND	0.37	EPA 8270D	5-15-19	5-17-19	
Pyrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Butylbenzylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Chrysene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Di-n-octylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	71	21 - 107				
Phenol-d6	77	30 - 106				
Nitrobenzene-d5	74	28 - 109				
2-Fluorobiphenyl	73	37 - 107				
2,4,6-Tribromophenol	85	39 - 116				
Terphenyl-d14	92	41 - 113				



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	4A					
Laboratory ID:	05-196-07					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Pyridine	ND	0.36	EPA 8270D	5-15-19	5-15-19	
Phenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Aniline	ND	0.18	EPA 8270D	5-15-19	5-15-19	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2-Chlorophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Benzyl alcohol	ND	0.18	EPA 8270D	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	5-15-19	5-15-19	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	5-15-19	5-15-19	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	5-15-19	5-15-19	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Hexachloroethane	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Nitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Isophorone	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2-Nitrophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Naphthalene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
4-Chloroaniline	ND	0.18	EPA 8270D	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2-Chloronaphthalene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2-Nitroaniline	ND	0.036	EPA 8270D	5-15-19	5-15-19	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Dimethylphthalate	ND	0.036	EPA 8270D	5-15-19	5-15-19	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
3-Nitroaniline	ND	0.036	EPA 8270D	5-15-19	5-15-19	



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	4A					
Laboratory ID:	05-196-07					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	5-15-19	5-15-19	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
4-Nitrophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Dibenzofuran	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Diethylphthalate	ND	0.18	EPA 8270D	5-15-19	5-15-19	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	5-15-19	5-15-19	
4-Nitroaniline	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Fluorene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	5-15-19	5-15-19	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	5-15-19	5-15-19	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	5-15-19	5-15-19	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Hexachlorobenzene	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Pentachlorophenol	ND	0.18	EPA 8270D	5-15-19	5-15-19	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Anthracene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Carbazole	ND	0.036	EPA 8270D	5-15-19	5-15-19	
Di-n-butylphthalate	ND	0.18	EPA 8270D	5-15-19	5-15-19	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Benzidine	ND	0.36	EPA 8270D	5-15-19	5-15-19	
Pyrene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Butylbenzylphthalate	ND	0.18	EPA 8270D	5-15-19	5-15-19	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270D	5-15-19	5-15-19	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	5-15-19	5-15-19	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Chrysene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270D	5-15-19	5-15-19	
Di-n-octylphthalate	ND	0.18	EPA 8270D	5-15-19	5-15-19	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Indeno[1,2,3-cd]pyrene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	65	21 - 107				
Phenol-d6	71	30 - 106				
Nitrobenzene-d5	69	28 - 109				
2-Fluorobiphenyl	73	37 - 107				
2,4,6-Tribromophenol	81	39 - 116				
Terphenyl-d14	85	41 - 113				



Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	5A					
Laboratory ID:	05-196-09					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Pyridine	ND	0.37	EPA 8270D	5-15-19	5-17-19	
Phenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Aniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Chlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Benzyl alcohol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	5-15-19	5-17-19	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Hexachloroethane	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Nitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Isophorone	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Nitrophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Naphthalene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
4-Chloroaniline	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Hexachlorobutadiene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Chloronaphthalene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2-Nitroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Dimethylphthalate	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
3-Nitroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	5A					
Laboratory ID:	05-196-09					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
4-Nitrophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Dibenzofuran	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Diethylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
4-Nitroaniline	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Fluorene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	5-15-19	5-17-19	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Hexachlorobenzene	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Pentachlorophenol	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Anthracene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Carbazole	ND	0.037	EPA 8270D	5-15-19	5-17-19	
Di-n-butylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Benzidine	ND	0.37	EPA 8270D	5-15-19	5-17-19	
Pyrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Butylbenzylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Chrysene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Di-n-octylphthalate	ND	0.18	EPA 8270D	5-15-19	5-17-19	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	5-15-19	5-16-19	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	80	21 - 107				
Phenol-d6	87	30 - 106				
Nitrobenzene-d5	84	28 - 109				
2-Fluorobiphenyl	83	37 - 107				
2,4,6-Tribromophenol	98	39 - 116				
Terphenyl-d14	95	41 - 113				



Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**SEMICVOLATILE ORGANICS EPA 8270D/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:	MB0515S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Pyridine	ND	0.33	EPA 8270D	5-15-19	5-15-19	
Phenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Aniline	ND	0.17	EPA 8270D	5-15-19	5-15-19	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2-Chlorophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Benzyl alcohol	ND	0.17	EPA 8270D	5-15-19	5-15-19	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	5-15-19	5-15-19	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	5-15-19	5-15-19	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	5-15-19	5-15-19	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Hexachloroethane	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Nitrobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Isophorone	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2-Nitrophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Naphthalene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
4-Chloroaniline	ND	0.17	EPA 8270D	5-15-19	5-15-19	
Hexachlorobutadiene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2-Chloronaphthalene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2-Nitroaniline	ND	0.033	EPA 8270D	5-15-19	5-15-19	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Dimethylphthalate	ND	0.033	EPA 8270D	5-15-19	5-15-19	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
3-Nitroaniline	ND	0.033	EPA 8270D	5-15-19	5-15-19	



Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**SEMICVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL**
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0515S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	5-15-19	5-15-19	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
4-Nitrophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Dibenzofuran	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Diethylphthalate	ND	0.17	EPA 8270D	5-15-19	5-15-19	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	5-15-19	5-15-19	
4-Nitroaniline	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Fluorene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	5-15-19	5-15-19	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	5-15-19	5-15-19	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	5-15-19	5-15-19	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Hexachlorobenzene	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Pentachlorophenol	ND	0.17	EPA 8270D	5-15-19	5-15-19	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Anthracene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Carbazole	ND	0.033	EPA 8270D	5-15-19	5-15-19	
Di-n-butylphthalate	ND	0.17	EPA 8270D	5-15-19	5-15-19	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Benzidine	ND	0.33	EPA 8270D	5-15-19	5-15-19	
Pyrene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Butylbenzylphthalate	ND	0.17	EPA 8270D	5-15-19	5-15-19	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	5-15-19	5-15-19	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	5-15-19	5-15-19	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Chrysene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	5-15-19	5-15-19	
Di-n-octylphthalate	ND	0.17	EPA 8270D	5-15-19	5-15-19	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	5-15-19	5-15-19	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	71	21 - 107				
Phenol-d6	78	30 - 106				
Nitrobenzene-d5	74	28 - 109				
2-Fluorobiphenyl	75	37 - 107				
2,4,6-Tribromophenol	90	39 - 116				
Terphenyl-d14	101	41 - 113				



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

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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**SEMICVOLATILE ORGANICS EPA 8270D/SIM
MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD	RPD	Flags
	Result	Recovery	Spike Level	Result	Recovery	Limits	RPD	Limit	RPD	Flags
MATRIX SPIKES										
Laboratory ID:	05-196-07									
	MS	MSD	MS	MSD	MS	MSD				
Phenol	0.966	1.07	1.33	1.33	ND	73	80	30 - 108	10	34
2-Chlorophenol	0.969	1.10	1.33	1.33	ND	73	83	30 - 113	13	38
1,4-Dichlorobenzene	0.462	0.517	0.667	0.667	ND	69	78	24 - 116	11	36
n-Nitroso-di-n-propylamine	0.465	0.509	0.667	0.667	ND	70	76	34 - 112	9	34
1,2,4-Trichlorobenzene	0.480	0.527	0.667	0.667	ND	72	79	34 - 115	9	37
4-Chloro-3-methylphenol	1.18	1.21	1.33	1.33	ND	89	91	41 - 117	3	29
Acenaphthene	0.555	0.563	0.667	0.667	ND	83	84	41 - 111	1	30
4-Nitrophenol	1.37	1.34	1.33	1.33	ND	103	101	30 - 127	2	32
2,4-Dinitrotoluene	0.582	0.574	0.667	0.667	ND	87	86	32 - 114	1	31
Pentachlorophenol	1.39	1.36	1.33	1.33	ND	105	102	36 - 147	2	34
Pyrene	0.590	0.616	0.667	0.667	ND	88	92	33 - 127	4	31
<i>Surrogate:</i>										
<i>2-Fluorophenol</i>						70	78	21 - 107		
<i>Phenol-d6</i>						75	82	30 - 106		
<i>Nitrobenzene-d5</i>						74	82	28 - 109		
<i>2-Fluorobiphenyl</i>						76	84	37 - 107		
<i>2,4,6-Tribromophenol</i>						92	88	39 - 116		
<i>Terphenyl-d14</i>						88	90	41 - 113		



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
Aroclor 1016	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1221	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1232	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1242	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1248	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1254	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1260	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Surrogate:		Percent Recovery	Control Limits			
DCB		88	37-122			
Client ID:	2A					
Laboratory ID:	05-196-03					
Aroclor 1016	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1221	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1232	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1242	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1248	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1254	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Aroclor 1260	ND	0.053	EPA 8082A	5-15-19	5-21-19	
Surrogate:		Percent Recovery	Control Limits			
DCB		82	37-122			
Client ID:	3A					
Laboratory ID:	05-196-05					
Aroclor 1016	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1221	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1232	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1242	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1248	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1254	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1260	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Surrogate:		Percent Recovery	Control Limits			
DCB		80	37-122			



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	4A					
Laboratory ID:	05-196-07					
Aroclor 1016	ND	0.054	EPA 8082A	5-15-19	5-21-19	
Aroclor 1221	ND	0.054	EPA 8082A	5-15-19	5-21-19	
Aroclor 1232	ND	0.054	EPA 8082A	5-15-19	5-21-19	
Aroclor 1242	ND	0.054	EPA 8082A	5-15-19	5-21-19	
Aroclor 1248	ND	0.054	EPA 8082A	5-15-19	5-21-19	
Aroclor 1254	ND	0.054	EPA 8082A	5-15-19	5-21-19	
Aroclor 1260	ND	0.054	EPA 8082A	5-15-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCB	86		37-122			
Client ID:	5A					
Laboratory ID:	05-196-09					
Aroclor 1016	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1221	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1232	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1242	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1248	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1254	ND	0.055	EPA 8082A	5-15-19	5-21-19	
Aroclor 1260	ND	0.055	EPA 8082A	5-15-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCB	78		37-122			



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 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515S2					
Aroclor 1016	ND	0.050	EPA 8082A	5-15-19	5-21-19	
Aroclor 1221	ND	0.050	EPA 8082A	5-15-19	5-21-19	
Aroclor 1232	ND	0.050	EPA 8082A	5-15-19	5-21-19	
Aroclor 1242	ND	0.050	EPA 8082A	5-15-19	5-21-19	
Aroclor 1248	ND	0.050	EPA 8082A	5-15-19	5-21-19	
Aroclor 1254	ND	0.050	EPA 8082A	5-15-19	5-21-19	
Aroclor 1260	ND	0.050	EPA 8082A	5-15-19	5-21-19	

Surrogate: Percent Recovery Control Limits
 DCB 87 37-122

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0515S2							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.481	0.515	0.500	0.500	N/A	96 103	49-120	7 18

Surrogate:
 DCB 84 88 37-122



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 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**ORGANOCHLORINE
PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
alpha-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
gamma-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
beta-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
delta-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Heptachlor	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Aldrin	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Heptachlor Epoxide	ND	5.3	EPA 8081B	5-15-19	5-21-19	
gamma-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
alpha-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDE	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan I	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Dieldrin	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDD	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan II	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDT	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Aldehyde	ND	11	EPA 8081B	5-15-19	5-21-19	
Methoxychlor	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan Sulfate	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Ketone	ND	11	EPA 8081B	5-15-19	5-21-19	
Toxaphene	ND	53	EPA 8081B	5-15-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
TCMX	62		31-97			
DCB	69		26-105			



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

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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**ORGANOCHLORINE
PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	2A					
Laboratory ID:	05-196-03					
alpha-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
gamma-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
beta-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
delta-BHC	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Heptachlor	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Aldrin	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Heptachlor Epoxide	ND	5.3	EPA 8081B	5-15-19	5-21-19	
gamma-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
alpha-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDE	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan I	ND	5.3	EPA 8081B	5-15-19	5-21-19	
Dieldrin	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDD	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan II	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDT	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Aldehyde	ND	11	EPA 8081B	5-15-19	5-21-19	
Methoxychlor	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan Sulfate	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Ketone	ND	11	EPA 8081B	5-15-19	5-21-19	
Toxaphene	ND	53	EPA 8081B	5-15-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
TCMX	59		31-97			
DCB	67		26-105			



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**ORGANOCHLORINE
PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	3A					
Laboratory ID:	05-196-05					
alpha-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
gamma-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
beta-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
delta-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Heptachlor	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Aldrin	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Heptachlor Epoxide	ND	5.5	EPA 8081B	5-15-19	5-21-19	
gamma-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
alpha-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDE	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan I	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Dieldrin	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDD	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan II	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDT	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Aldehyde	ND	11	EPA 8081B	5-15-19	5-21-19	
Methoxychlor	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan Sulfate	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Ketone	ND	11	EPA 8081B	5-15-19	5-21-19	
Toxaphene	ND	55	EPA 8081B	5-15-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
TCMX	59		31-97			
DCB	68		26-105			



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 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**ORGANOCHLORINE
PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	4A					
Laboratory ID:	05-196-07					
alpha-BHC	ND	5.4	EPA 8081B	5-15-19	5-21-19	
gamma-BHC	ND	5.4	EPA 8081B	5-15-19	5-21-19	
beta-BHC	ND	5.4	EPA 8081B	5-15-19	5-21-19	
delta-BHC	ND	5.4	EPA 8081B	5-15-19	5-21-19	
Heptachlor	ND	5.4	EPA 8081B	5-15-19	5-21-19	
Aldrin	ND	5.4	EPA 8081B	5-15-19	5-21-19	
Heptachlor Epoxide	ND	5.4	EPA 8081B	5-15-19	5-21-19	
gamma-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
alpha-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDE	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan I	ND	5.4	EPA 8081B	5-15-19	5-21-19	
Dieldrin	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDD	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan II	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDT	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Aldehyde	ND	11	EPA 8081B	5-15-19	5-21-19	
Methoxychlor	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan Sulfate	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Ketone	ND	11	EPA 8081B	5-15-19	5-21-19	
Toxaphene	ND	54	EPA 8081B	5-15-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
TCMX	66		31-97			
DCB	72		26-105			



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 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**ORGANOCHLORINE
PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	5A					
Laboratory ID:	05-196-09					
alpha-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
gamma-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
beta-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
delta-BHC	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Heptachlor	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Aldrin	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Heptachlor Epoxide	ND	5.5	EPA 8081B	5-15-19	5-21-19	
gamma-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
alpha-Chlordane	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDE	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan I	ND	5.5	EPA 8081B	5-15-19	5-21-19	
Dieldrin	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDD	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan II	ND	11	EPA 8081B	5-15-19	5-21-19	
4,4'-DDT	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Aldehyde	ND	11	EPA 8081B	5-15-19	5-21-19	
Methoxychlor	ND	11	EPA 8081B	5-15-19	5-21-19	
Endosulfan Sulfate	ND	11	EPA 8081B	5-15-19	5-21-19	
Endrin Ketone	ND	11	EPA 8081B	5-15-19	5-21-19	
Toxaphene	ND	55	EPA 8081B	5-15-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
TCMX	59		31-97			
DCB	66		26-105			



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 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**ORGANOCHLORINE
PESTICIDES EPA 8081B
METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515S2					
alpha-BHC	ND	5.0	EPA 8081B	5-15-19	5-21-19	
gamma-BHC	ND	5.0	EPA 8081B	5-15-19	5-21-19	
beta-BHC	ND	5.0	EPA 8081B	5-15-19	5-21-19	
delta-BHC	ND	5.0	EPA 8081B	5-15-19	5-21-19	
Heptachlor	ND	5.0	EPA 8081B	5-15-19	5-21-19	
Aldrin	ND	5.0	EPA 8081B	5-15-19	5-21-19	
Heptachlor Epoxide	ND	5.0	EPA 8081B	5-15-19	5-21-19	
gamma-Chlordane	ND	10	EPA 8081B	5-15-19	5-21-19	
alpha-Chlordane	ND	10	EPA 8081B	5-15-19	5-21-19	
4,4'-DDE	ND	10	EPA 8081B	5-15-19	5-21-19	
Endosulfan I	ND	5.0	EPA 8081B	5-15-19	5-21-19	
Dieldrin	ND	10	EPA 8081B	5-15-19	5-21-19	
Endrin	ND	10	EPA 8081B	5-15-19	5-21-19	
4,4'-DDD	ND	10	EPA 8081B	5-15-19	5-21-19	
Endosulfan II	ND	10	EPA 8081B	5-15-19	5-21-19	
4,4'-DDT	ND	10	EPA 8081B	5-15-19	5-21-19	
Endrin Aldehyde	ND	10	EPA 8081B	5-15-19	5-21-19	
Methoxychlor	ND	10	EPA 8081B	5-15-19	5-21-19	
Endosulfan Sulfate	ND	10	EPA 8081B	5-15-19	5-21-19	
Endrin Ketone	ND	10	EPA 8081B	5-15-19	5-21-19	
Toxaphene	ND	50	EPA 8081B	5-15-19	5-21-19	
Surrogate:	Percent Recovery	Control Limits				
TCMX	70	31-97				
DCB	80	26-105				



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 Project: 923-1000-005.5000

**ORGANOCHLORINE
PESTICIDES EPA 8081B
SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD RPD	RPD Limit	Flags		
SPIKE BLANKS												
Laboratory ID:	SB0515S2											
	SB	SBD	SB	SBD		SB	SBD					
alpha-BHC	78.0	81.0	100	100	N/A	78	81	55-94	4	15		
gamma-BHC	80.3	81.0	100	100	N/A	80	81	55-97	1	15		
beta-BHC	72.0	73.3	100	100	N/A	72	73	50-110	2	15		
delta-BHC	77.6	79.1	100	100	N/A	78	79	50-98	2	16		
Heptachlor	72.1	74.5	100	100	N/A	72	74	54-111	3	15		
Aldrin	72.8	75.7	100	100	N/A	73	76	51-103	4	15		
Heptachlor Epoxide	71.0	73.8	100	100	N/A	71	74	49-114	4	15		
gamma-Chlordane	77.6	77.5	100	100	N/A	78	78	51-110	0	15		
alpha-Chlordane	77.6	76.1	100	100	N/A	78	76	47-114	2	15		
4,4'-DDE	81.7	84.8	100	100	N/A	82	85	58-103	4	15		
Endosulfan I	72.6	72.2	100	100	N/A	73	72	56-109	1	15		
Dieldrin	75.0	74.8	100	100	N/A	75	75	51-112	0	15		
Endrin	74.0	74.7	100	100	N/A	74	75	49-117	1	15		
4,4'-DDD	86.2	87.4	100	100	N/A	86	87	56-110	1	15		
Endosulfan II	78.3	78.0	100	100	N/A	78	78	51-116	0	15		
4,4'-DDT	88.0	91.1	100	100	N/A	88	91	51-110	3	15		
Endrin Aldehyde	75.4	74.8	100	100	N/A	75	75	54-115	1	15		
Methoxychlor	82.8	87.0	100	100	N/A	83	87	53-115	5	15		
Endosulfan Sulfate	80.7	80.4	100	100	N/A	81	80	52-109	0	15		
Endrin Ketone	76.8	79.9	100	100	N/A	77	80	51-112	4	15		
Surrogate:												
TCMX						65	69	31-97				
DCB						79	81	26-105				



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 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**CHLORINATED ACID
HERBICIDES EPA 8151A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
Dalapon	ND	200	EPA 8151A	5-19-19	5-21-19	
Dicamba	ND	10	EPA 8151A	5-19-19	5-21-19	
MCPP	ND	1000	EPA 8151A	5-19-19	5-21-19	
MCPA	ND	2500	EPA 8151A	5-19-19	5-21-19	
Dichlorprop	ND	76	EPA 8151A	5-19-19	5-21-19	
2,4-D	ND	10	EPA 8151A	5-19-19	5-21-19	
Pentachlorophenol	ND	5.1	EPA 8151A	5-19-19	5-21-19	
2,4,5-TP (Silvex)	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4,5-T	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4-DB	ND	10	EPA 8151A	5-19-19	5-21-19	
Dinoseb	ND	10	EPA 8151A	5-19-19	5-21-19	

Surrogate: Percent Recovery Control Limits
 DCAA 92 10-114

Client ID:	2A					
Laboratory ID:	05-196-03					
Dalapon	ND	190	EPA 8151A	5-19-19	5-21-19	
Dicamba	ND	10	EPA 8151A	5-19-19	5-21-19	
MCPP	ND	990	EPA 8151A	5-19-19	5-21-19	
MCPA	ND	2500	EPA 8151A	5-19-19	5-21-19	
Dichlorprop	ND	75	EPA 8151A	5-19-19	5-21-19	
2,4-D	ND	10	EPA 8151A	5-19-19	5-21-19	
Pentachlorophenol	ND	5.0	EPA 8151A	5-19-19	5-21-19	
2,4,5-TP (Silvex)	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4,5-T	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4-DB	ND	10	EPA 8151A	5-19-19	5-21-19	
Dinoseb	ND	10	EPA 8151A	5-19-19	5-21-19	

Surrogate: Percent Recovery Control Limits
 DCAA 84 10-114



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 Project: 923-1000-005.5000

**CHLORINATED ACID
HERBICIDES EPA 8151A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	3A					
Laboratory ID:	05-196-05					
Dalapon	ND	200	EPA 8151A	5-19-19	5-21-19	
Dicamba	ND	10	EPA 8151A	5-19-19	5-21-19	
MCPP	ND	1000	EPA 8151A	5-19-19	5-21-19	
MCPA	ND	2600	EPA 8151A	5-19-19	5-21-19	
Dichlorprop	ND	78	EPA 8151A	5-19-19	5-21-19	
2,4-D	ND	10	EPA 8151A	5-19-19	5-21-19	
Pentachlorophenol	ND	5.2	EPA 8151A	5-19-19	5-21-19	
2,4,5-TP (Silvex)	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4,5-T	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4-DB	ND	10	EPA 8151A	5-19-19	5-21-19	
Dinoseb	ND	10	EPA 8151A	5-19-19	5-21-19	

Surrogate: Percent Recovery Control Limits
 DCAA 83 10-114

Client ID:	4A					
Laboratory ID:	05-196-07					
Dalapon	ND	200	EPA 8151A	5-19-19	5-21-19	
Dicamba	ND	10	EPA 8151A	5-19-19	5-21-19	
MCPP	ND	1000	EPA 8151A	5-19-19	5-21-19	
MCPA	ND	2500	EPA 8151A	5-19-19	5-21-19	
Dichlorprop	ND	77	EPA 8151A	5-19-19	5-21-19	
2,4-D	ND	10	EPA 8151A	5-19-19	5-21-19	
Pentachlorophenol	ND	5.1	EPA 8151A	5-19-19	5-21-19	
2,4,5-TP (Silvex)	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4,5-T	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4-DB	ND	10	EPA 8151A	5-19-19	5-21-19	
Dinoseb	ND	10	EPA 8151A	5-19-19	5-21-19	

Surrogate: Percent Recovery Control Limits
 DCAA 73 10-114



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 Project: 923-1000-005.5000

**CHLORINATED ACID
HERBICIDES EPA 8151A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	5A					
Laboratory ID:	05-196-09					
Dalapon	ND	200	EPA 8151A	5-19-19	5-21-19	
Dicamba	ND	10	EPA 8151A	5-19-19	5-21-19	
MCPP	ND	1000	EPA 8151A	5-19-19	5-21-19	
MCPA	ND	2600	EPA 8151A	5-19-19	5-21-19	
Dichlorprop	ND	78	EPA 8151A	5-19-19	5-21-19	
2,4-D	ND	10	EPA 8151A	5-19-19	5-21-19	
Pentachlorophenol	ND	5.2	EPA 8151A	5-19-19	5-21-19	
2,4,5-TP (Silvex)	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4,5-T	ND	10	EPA 8151A	5-19-19	5-21-19	
2,4-DB	ND	10	EPA 8151A	5-19-19	5-21-19	
Dinoseb	ND	10	EPA 8151A	5-19-19	5-21-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCAA	86		10-114			



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Date of Report: May 22, 2019
 Samples Submitted: May 14, 2019
 Laboratory Reference: 1905-196
 Project: 923-1000-005.5000

**CHLORINATED ACID
HERBICIDES EPA 8151A
QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519S1					
Dalapon	ND	180	EPA 8151A	5-19-19	5-22-19	
Dicamba	ND	9.4	EPA 8151A	5-19-19	5-22-19	
MCPP	ND	940	EPA 8151A	5-19-19	5-22-19	
MCPA	ND	2300	EPA 8151A	5-19-19	5-22-19	
Dichlorprop	ND	71	EPA 8151A	5-19-19	5-22-19	
2,4-D	ND	9.4	EPA 8151A	5-19-19	5-22-19	
Pentachlorophenol	ND	4.8	EPA 8151A	5-19-19	5-22-19	
2,4,5-TP (Silvex)	ND	9.5	EPA 8151A	5-19-19	5-22-19	
2,4,5-T	ND	9.5	EPA 8151A	5-19-19	5-22-19	
2,4-DB	ND	9.5	EPA 8151A	5-19-19	5-22-19	
Dinoseb	ND	9.5	EPA 8151A	5-19-19	5-22-19	
Surrogate:	Percent Recovery		Control Limits			
DCAA	95		10-114			

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0519S1							
	SB	SBD	SB	SBD	SB	SBD		
Dalapon	697	758	1250	1250	N/A	56	61	10-140
Dicamba	194	201	250	250	N/A	78	80	35-117
MCPP	22100	21100	25000	25000	N/A	88	84	40-140
MCPA	21800	20200	25000	25000	N/A	87	81	40-140
Dichlorprop	241	228	250	250	N/A	96	91	40-140
2,4-D	278	255	250	250	N/A	111	102	22-111
Pentachlorophenol	21.3	20.2	25.0	25.0	N/A	85	81	24-117
2,4,5-TP (Silvex)	295	277	250	250	N/A	118	111	40-140
2,4,5-T	326	315	250	250	N/A	130	126	18-137
2,4-DB	312	280	250	250	N/A	125	112	10-147
Dinoseb	182	175	250	250	N/A	73	70	40-140
Surrogate:								
DCAA			98				10-114	



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 Project: 923-1000-005.5000

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	1A					
Laboratory ID:	05-196-01					
Arsenic	ND	11	EPA 6010D	5-16-19	5-16-19	
Cadmium	ND	0.53	EPA 6010D	5-16-19	5-16-19	
Chromium	41	0.53	EPA 6010D	5-16-19	5-16-19	
Lead	ND	5.3	EPA 6010D	5-16-19	5-16-19	
Mercury	ND	0.27	EPA 7471B	5-17-19	5-17-19	
Client ID:	2A					
Laboratory ID:	05-196-03					
Arsenic	ND	11	EPA 6010D	5-16-19	5-16-19	
Cadmium	ND	0.53	EPA 6010D	5-16-19	5-16-19	
Chromium	38	0.53	EPA 6010D	5-16-19	5-16-19	
Lead	ND	5.3	EPA 6010D	5-16-19	5-16-19	
Mercury	ND	0.27	EPA 7471B	5-17-19	5-17-19	
Client ID:	3A					
Laboratory ID:	05-196-05					
Arsenic	ND	11	EPA 6010D	5-16-19	5-16-19	
Cadmium	ND	0.55	EPA 6010D	5-16-19	5-16-19	
Chromium	35	0.55	EPA 6010D	5-16-19	5-16-19	
Lead	ND	5.5	EPA 6010D	5-16-19	5-16-19	
Mercury	ND	0.27	EPA 7471B	5-17-19	5-17-19	
Client ID:	4A					
Laboratory ID:	05-196-07					
Arsenic	ND	11	EPA 6010D	5-16-19	5-16-19	
Cadmium	ND	0.54	EPA 6010D	5-16-19	5-16-19	
Chromium	45	0.54	EPA 6010D	5-16-19	5-16-19	
Lead	ND	5.4	EPA 6010D	5-16-19	5-16-19	
Mercury	ND	0.27	EPA 7471B	5-17-19	5-17-19	



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TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	5A					
Laboratory ID:	05-196-09					
Arsenic	ND	11	EPA 6010D	5-16-19	5-16-19	
Cadmium	ND	0.55	EPA 6010D	5-16-19	5-16-19	
Chromium	30	0.55	EPA 6010D	5-16-19	5-16-19	
Lead	ND	5.5	EPA 6010D	5-16-19	5-16-19	
Mercury	ND	0.27	EPA 7471B	5-17-19	5-17-19	



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TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516SM3					
Arsenic	ND	10	EPA 6010D	5-16-19	5-16-19	
Cadmium	ND	0.50	EPA 6010D	5-16-19	5-16-19	
Chromium	ND	0.50	EPA 6010D	5-16-19	5-16-19	
Lead	ND	5.0	EPA 6010D	5-16-19	5-16-19	
Laboratory ID:	MB0517S1					
Mercury	ND	0.25	EPA 7471B	5-17-19	5-17-19	

Analyte	Result	Spike Level	Source	Percent	Recovery	RPD	Flags		
			Result	Recovery	Limits	RPD Limit			
DUPLICATE									
Laboratory ID:	05-196-01								
	ORIG	DUP							
Arsenic	ND	ND	NA	NA	NA	NA	20		
Cadmium	ND	ND	NA	NA	NA	NA	20		
Chromium	38.1	36.4	NA	NA	NA	5	20		
Lead	ND	ND	NA	NA	NA	NA	20		
Laboratory ID:	05-196-01								
Mercury	ND	ND	NA	NA	NA	NA	20		

Analyte	MS	MSD	MS	MSD	MS	MSD	Flags	
	Result	Recovery	Limit	RPD	RPD Limit			
MATRIX SPIKES								
Laboratory ID:	05-196-01							
	MS	MSD	MS	MSD	MS	MSD		
Arsenic	93.1	94.4	100	100	ND	93	94	
Cadmium	44.8	44.3	50.0	50.0	ND	90	89	
Chromium	128	116	100	100	38.1	90	78	
Lead	229	233	250	250	ND	91	93	
Laboratory ID:	05-196-01							
Mercury	0.538	0.540	0.500	0.500	0.0169	104	105	
						80-120	0	
							20	



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Project: 923-1000-005.5000

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
1A	05-196-01	6	5-15-19
2A	05-196-03	6	5-15-19
3A	05-196-05	9	5-15-19
4A	05-196-07	7	5-15-19
5A	05-196-09	9	5-15-19



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Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Chain of Custody

 Page 1 of 1

 Company: Globe

 Project Number: 425 883-923-1000 -005.5000

 Project Name: Landsburg

 Project Manager: Greg Zimmerman

 Sampled by: Joseph K., Greg Zimmerman

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

 Turnaround Request
 (in working days)

(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)

5 Business days
 (other)

 Laboratory Number: **05-196**

Lab ID	Sample Identification	Date	Time	Number of Containers	
		Sampled	Sampled		
1	1A	5/14/9	1542	5	6
2	1B		1548		
3	2A	1552		X	X
4	2B	1602		X	X
5	3A	1607		X	X
6	3B	1613		X	X
7	4A	1617		X	X
8	4B	1620		X	X
9	5A	1624		X	X
10	5B	1628		X	X
Comments/Special Instructions					
Relinquished	<u>Joseph K.</u>	<u>Globe</u>	<u>5/14/9</u>	<u>1623-1703</u>	<u>Please analyze in accordance w/ MSA between Globe & Onsite Env.</u>
Received	<u>C&E</u>	<u>C&E</u>	<u>5/14/9</u>	<u>1705</u>	<u>Analyses for analytes listed on Table 3-1 of Soils Characterization work plan - (See David)</u>
Received					
Relinquished					
Received					
Reviewed/Date					
					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
					Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>