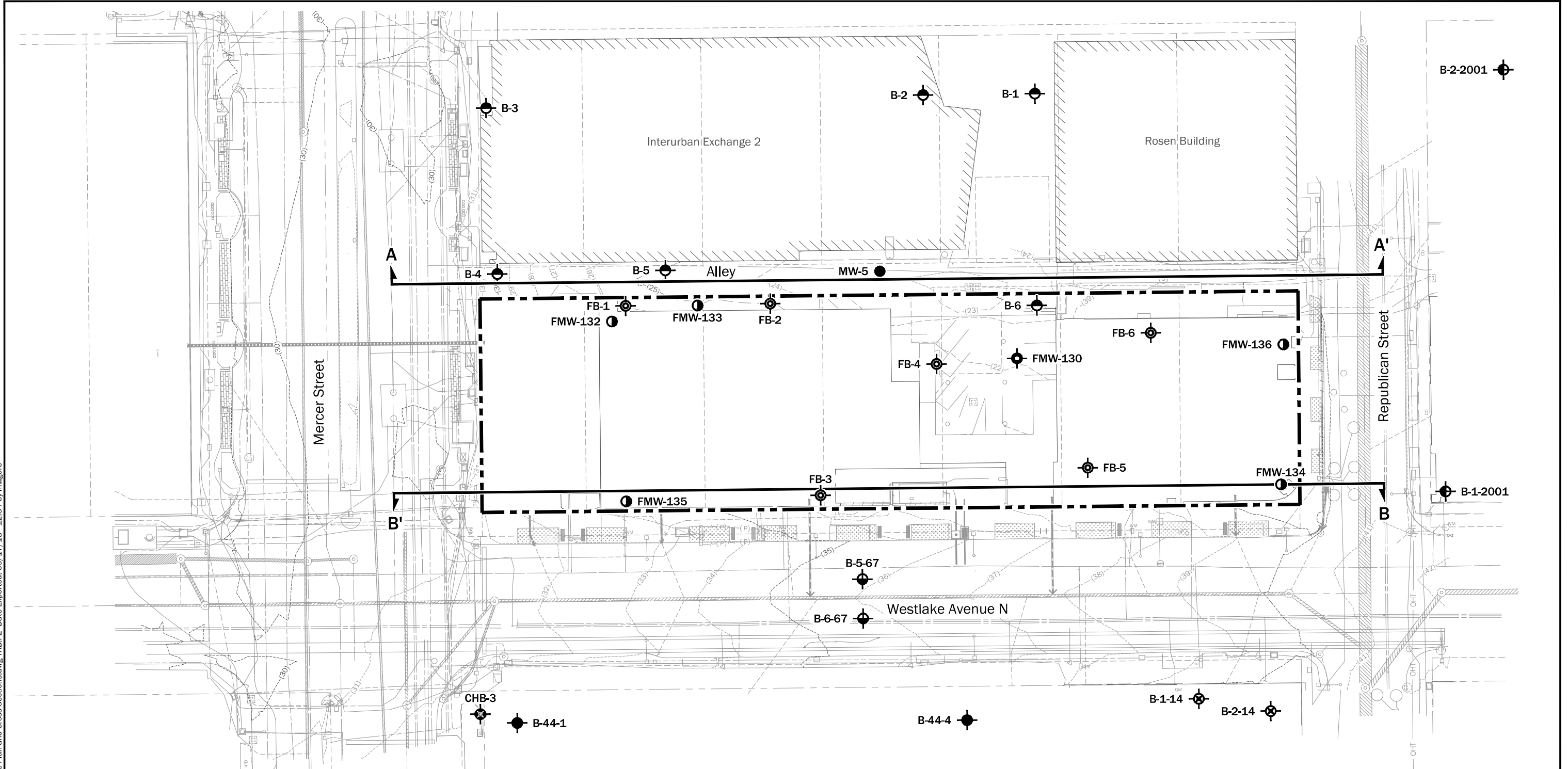


APPENDIX B
GEOENGINEERS FIGURES 2 THROUGH 4

INTERIM ACTION WORK PLAN
Block 38 West Property
500 through 536 Westlake Avenue North
Seattle, Washington

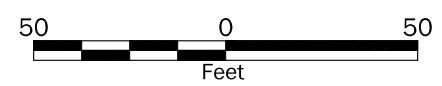
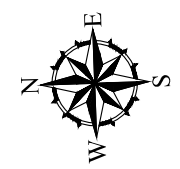
Farallon PN: 397-019

P:\7087028\CAD\01\GeoTech\708702801_F02-F04_Site Plan and Cross Sections.dwg TAB:F2 Date Exported: 09/17/18 - 12:34 by kllifore

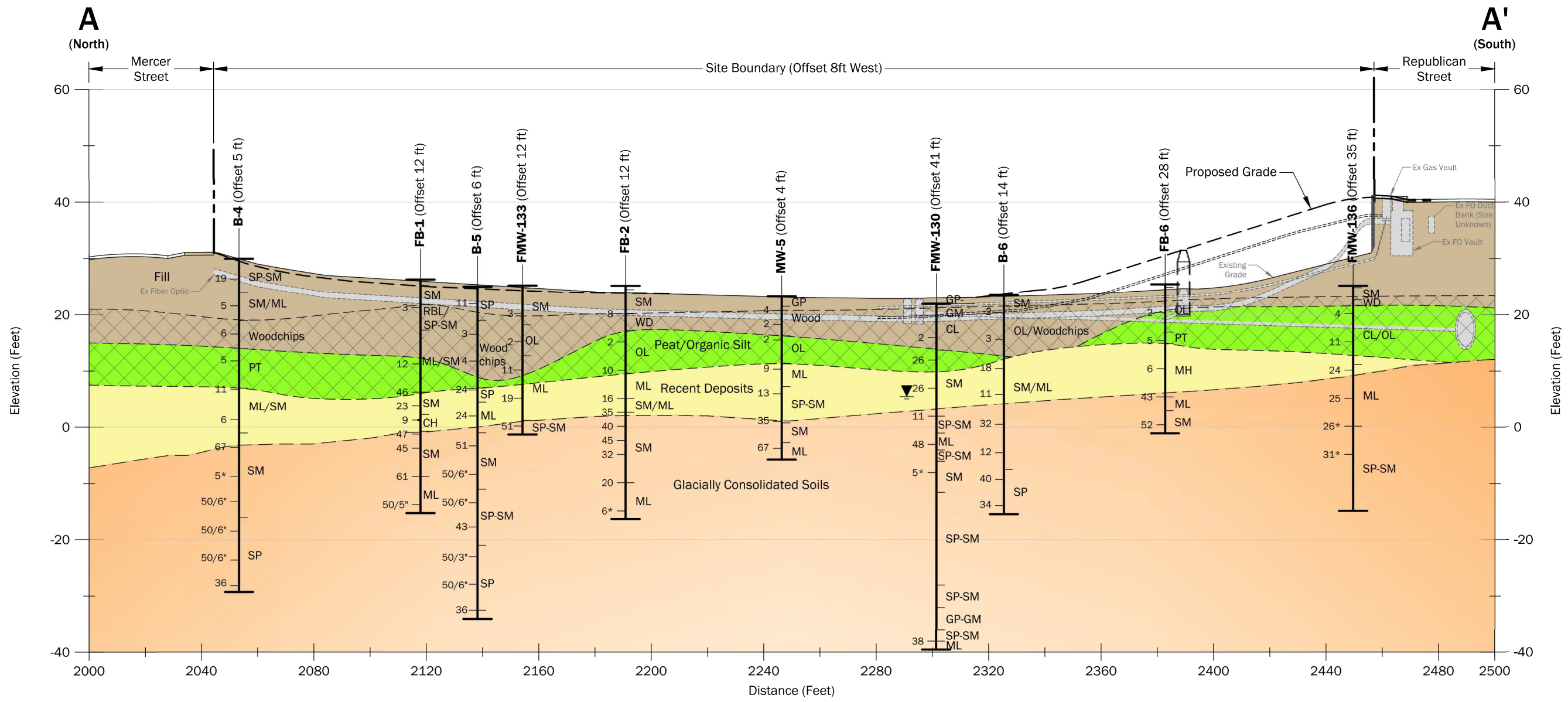


Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
 Data Source: Site Survey by Bush, Roed and Hitchings, Received 08/28/18.
 Projection: WA State Plane, North Zone, NAD83, US Foot

- Legend**
- Site Boundary
 - FB-1 Boring by Farallon Consulting, 2018
 - FMW-132 Monitoring Well by Farallon Consulting, 2018
 - FMW-130 Boring by GeoEngineers, 2014
 - B-1-14 Boring by GeoEngineers, 2014
 - B-43-1 Boring by GeoEngineers, 2012
 - B-44-1 Boring by GeoEngineers, 2011
 - CHB-3 Boring by CH2M Hill, 2007
 - MW-5 Monitoring Well by GeoEngineers, 2003
 - B-1-2001 Boring by GeoEngineers, 2001
 - DW-2 Boring by GeoEngineers, 2000
 - B-1 Boring by GeoEngineers, 1998
 - B-5-67 Boring by Seattle Engineering Department (1967)
- Cross Section Location



Site Plan	
Block 38 Seattle, Washington	
	Figure 2

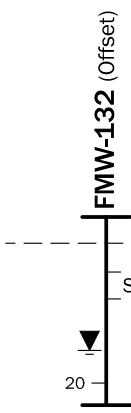


P:\7087028\CAD\01\GeoTech\708702801_F02-F04_Site Plan and Cross Sections.dwg TAB:F3 Date Exported: 09/17/18 -9:47 by ikilgore

Notes:

- The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
- This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

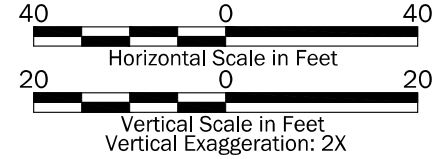
Datum: NAVD 88, unless otherwise noted.



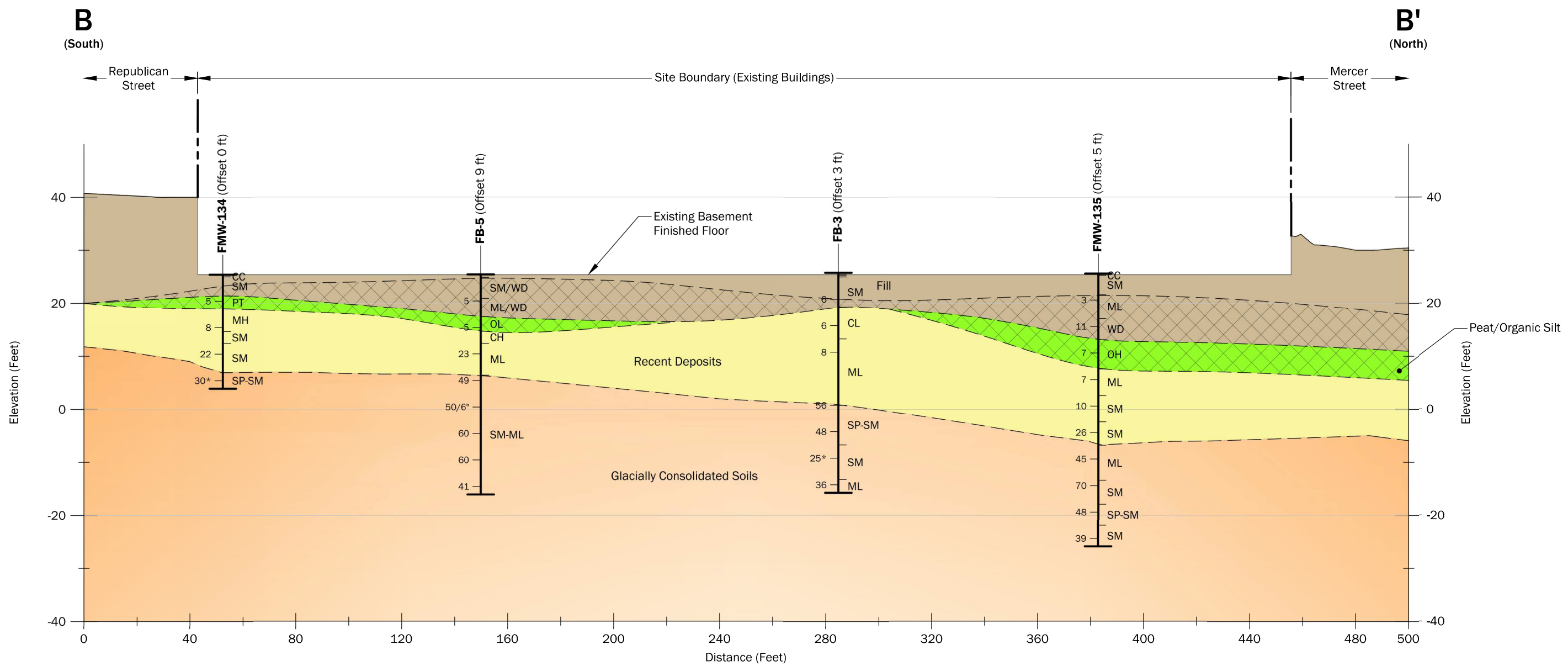
Legend

- Boring
- Inferred Soil Contact
- Soil Classification
- Groundwater Measured in Piezometer
- Blow Count
- *Blow Count is not Representative

- Wood Waste/Organic Soil Zone
- Peat/Organic Silt
- Fill
- Recent Deposits
- Glacially Consolidated Soils



Cross Section A-A'	
Block 38 Seattle, Washington	
	Figure 3



P:\7087028\CAD\01\GeoTech\708702801_F02-F04_Site Plan and Cross Sections.dwg TAB:F4 Date Exported: 09/17/18 - 10:15 by: klligore

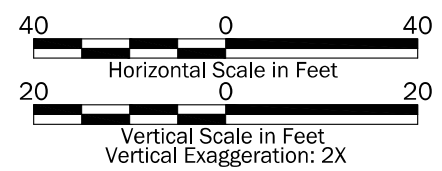
- Notes:**
- The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
 - This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Datum: NAVD 88, unless otherwise noted.

Legend

	Boring		Wood Waste/Organic Soil Zone
	Inferred Soil Contact		Peat/Organic Silt
	Soil Classification		Fill
	Groundwater Measured in Piezometer		Recent Deposits
	Blow Count		Glacially Consolidated Soils

*Blow Count is not Representative



Cross Section B-B'

Block 38
Seattle, Washington

GEOENGINEERS

Figure 4

APPENDIX C
LABORATORY ANALYTICAL REPORTS

INTERIM ACTION WORK PLAN
Block 38 West Property
500 through 536 Westlake Avenue North
Seattle, Washington

Farallon PN: 397-019



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

July 30, 2014

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-010
Laboratory Reference No. 1407-172

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 22, 2014.

Please note that this is a revised report, and replaces the original dated July 30, 2014, due to a requested change of the Halogenated Volatiles to full list Volatiles.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: July 30, 2014
Samples Submitted: July 22, 2014
Laboratory Reference: 1407-172
Project: 397-010

Case Narrative

Samples were collected on July 21 and 22, 2014 and received by the laboratory on July 22, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

NWTPH Gx/BTEX Analysis

The chromatogram for sample F-MW-130-GW1-072114 is not similar to a typical gas.

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

Date of Report: July 30, 2014
 Samples Submitted: July 22, 2014
 Laboratory Reference: 1407-172
 Project: 397-010

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	F-MW-130-GW1-072114					
Laboratory ID:	07-172-02					
Benzene	5.1	1.0	EPA 8021B	7-24-14	7-24-14	
Toluene	7.5	1.0	EPA 8021B	7-24-14	7-24-14	
Ethyl Benzene	2.2	1.0	EPA 8021B	7-24-14	7-24-14	
m,p-Xylene	3.4	1.0	EPA 8021B	7-24-14	7-24-14	
o-Xylene	3.3	1.0	EPA 8021B	7-24-14	7-24-14	
Gasoline	2100	100	NWTPH-Gx	7-24-14	7-24-14	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	71-112				

Date of Report: July 30, 2014
 Samples Submitted: July 22, 2014
 Laboratory Reference: 1407-172
 Project: 397-010

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0724W1					
Benzene	ND	1.0	EPA 8021B	7-24-14	7-24-14	
Toluene	ND	1.0	EPA 8021B	7-24-14	7-24-14	
Ethyl Benzene	ND	1.0	EPA 8021B	7-24-14	7-24-14	
m,p-Xylene	ND	1.0	EPA 8021B	7-24-14	7-24-14	
o-Xylene	ND	1.0	EPA 8021B	7-24-14	7-24-14	
Gasoline	ND	100	NWTPH-Gx	7-24-14	7-24-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-209-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				97	96	71-112		

MATRIX SPIKES

Laboratory ID:	07-209-02									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	52.9	54.0	50.0	50.0	ND	106	108	78-120	2	12
Toluene	54.7	55.9	50.0	50.0	ND	109	112	80-121	2	12
Ethyl Benzene	55.1	55.9	50.0	50.0	ND	110	112	81-120	1	13
m,p-Xylene	55.8	56.7	50.0	50.0	ND	112	113	81-119	2	13
o-Xylene	55.4	56.0	50.0	50.0	ND	111	112	79-117	1	13
<i>Surrogate:</i>										
<i>Fluorobenzene</i>					102	102	71-112			

Date of Report: July 30, 2014
 Samples Submitted: July 22, 2014
 Laboratory Reference: 1407-172
 Project: 397-010

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	F-MW-130-GW1-072114					
Laboratory ID:	07-172-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chloromethane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Vinyl Chloride	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Bromomethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chloroethane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Acetone	ND	6.4	EPA 8260C	7-23-14	7-23-14	
Iodomethane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Carbon Disulfide	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Methylene Chloride	ND	1.0	EPA 8260C	7-23-14	7-23-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Vinyl Acetate	ND	1.0	EPA 8260C	7-23-14	7-23-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Butanone	ND	5.0	EPA 8260C	7-23-14	7-23-14	
Bromochloromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chloroform	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Benzene	6.1	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Trichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Dibromomethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Bromodichloromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	7-23-14	7-23-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-23-14	7-23-14	
Toluene	4.3	1.0	EPA 8260C	7-23-14	7-23-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-23-14	7-23-14	

Date of Report: July 30, 2014
 Samples Submitted: July 22, 2014
 Laboratory Reference: 1407-172
 Project: 397-010

VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	F-MW-130-GW1-072114					
Laboratory ID:	07-172-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Tetrachloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Hexanone	ND	2.9	EPA 8260C	7-23-14	7-23-14	
Dibromochloromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Ethylbenzene	1.6	0.20	EPA 8260C	7-23-14	7-23-14	
m,p-Xylene	2.2	0.40	EPA 8260C	7-23-14	7-23-14	
o-Xylene	2.3	0.20	EPA 8260C	7-23-14	7-23-14	
Styrene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Bromoform	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Isopropylbenzene	0.23	0.20	EPA 8260C	7-23-14	7-23-14	
Bromobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
n-Propylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,3,5-Trimethylbenzene	1.2	0.20	EPA 8260C	7-23-14	7-23-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2,4-Trimethylbenzene	2.6	0.20	EPA 8260C	7-23-14	7-23-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
n-Butylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Naphthalene	650	1.0	EPA 8260C	7-23-14	7-23-14	E
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	62-122				
<i>Toluene-d8</i>	101	70-120				
<i>4-Bromofluorobenzene</i>	99	71-120				

Date of Report: July 30, 2014
 Samples Submitted: July 22, 2014
 Laboratory Reference: 1407-172
 Project: 397-010

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

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0723W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chloromethane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Vinyl Chloride	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Bromomethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chloroethane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Acetone	ND	6.4	EPA 8260C	7-23-14	7-23-14	
Iodomethane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Carbon Disulfide	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Methylene Chloride	ND	1.0	EPA 8260C	7-23-14	7-23-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Vinyl Acetate	ND	1.0	EPA 8260C	7-23-14	7-23-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Butanone	ND	5.0	EPA 8260C	7-23-14	7-23-14	
Bromochloromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chloroform	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Benzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Trichloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Dibromomethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Bromodichloromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Chloroethyl Vinyl Ether	ND	1.9	EPA 8260C	7-23-14	7-23-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-23-14	7-23-14	
Toluene	ND	1.0	EPA 8260C	7-23-14	7-23-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-23-14	7-23-14	

Date of Report: July 30, 2014
 Samples Submitted: July 22, 2014
 Laboratory Reference: 1407-172
 Project: 397-010

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0723W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Tetrachloroethene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Hexanone	ND	2.9	EPA 8260C	7-23-14	7-23-14	
Dibromochloromethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Chlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Ethylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
m,p-Xylene	ND	0.40	EPA 8260C	7-23-14	7-23-14	
o-Xylene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Styrene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Bromoform	ND	1.0	EPA 8260C	7-23-14	7-23-14	
Isopropylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Bromobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-23-14	7-23-14	
n-Propylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
n-Butylbenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-23-14	7-23-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
Naphthalene	ND	1.0	EPA 8260C	7-23-14	7-23-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-23-14	7-23-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: July 30, 2014
 Samples Submitted: July 22, 2014
 Laboratory Reference: 1407-172
 Project: 397-010

**VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

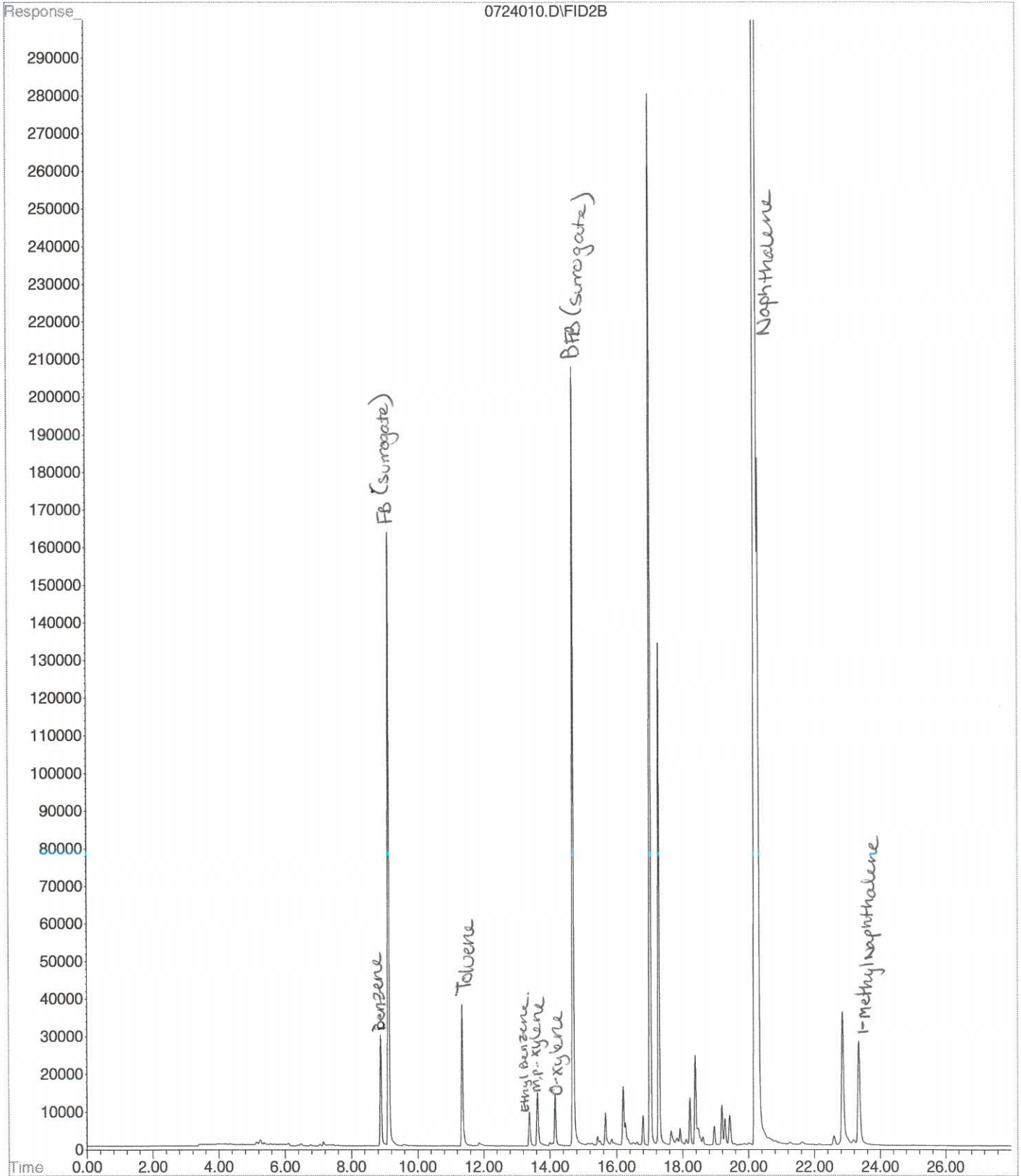
Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0723W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.90	10.1	10.0	10.0	99	101	63-142	2	17	
Benzene	10.1	10.0	10.0	10.0	101	100	78-125	1	15	
Trichloroethene	10.4	10.0	10.0	10.0	104	100	75-125	4	15	
Toluene	10.1	9.91	10.0	10.0	101	99	80-125	2	15	
Chlorobenzene	9.83	9.74	10.0	10.0	98	97	80-140	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>95</i>	<i>98</i>	<i>62-122</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>101</i>	<i>70-120</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>97</i>	<i>71-120</i>			



Data Qualifiers and Abbreviations

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

File : X:\BTEX\HOPE\DATA\H140724\0724010.D
Operator :
Acquired : 24 Jul 2014 16:20 using AcqMethod 140715B.M
Instrument : HOPE
Sample Name: 07-172-02d
Misc Info : V2-34-26
Vial Number: 10



Chain of Custody

Laboratory Number: **07-172**

Company: **FARALLON**
Project Number: **397-010**
Project Name: **BLOCK 43**
Project Manager: **CLIFF SCHMITT**
Sampled by: **DINGER KATHAN**

Turnaround Request (in working days)

(Check One)

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





Number of Containers

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-GV/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	F-MW-130-20.0-072114	7/21/14	1300	S	5		X				X												
2	F-MW-130-GW1-072114	7/21/14	1420	W	5		X				X												
3	F-MW-130-40.0-072114	7/21/14	1655	S	4																		
4	DRILLING WATER	7/22/14	0815	W	3																		

DK
~~STANDARD TAT~~ **HOLD**

~~STANDARD TAT~~
STANDARD TAT

HOLD

Signature	Company	Date	Time	Comments/Special Instructions
	FARALLON	7/22/14	0950	
	SPERRY	7/22/14	1000	
	SPERRY	7/22/14	1115	
	ORTE	7/22/14	1115	
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>		



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

July 28, 2014

Jennifer Moore
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-010
Laboratory Reference No. 1407-225

Dear Jennifer:

Enclosed are the analytical results and associated quality control data for samples submitted on July 24, 2014.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: July 28, 2014
Samples Submitted: July 24, 2014
Laboratory Reference: 1407-225
Project: 397-010

Case Narrative

Samples were collected on July 24, 2014 and received by the laboratory on July 24, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

Date of Report: July 28, 2014
 Samples Submitted: July 24, 2014
 Laboratory Reference: 1407-225
 Project: 397-010

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	F-MW-130-072414					
Laboratory ID:	07-225-01					
Benzene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
Toluene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
Ethyl Benzene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
m,p-Xylene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
o-Xylene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
Gasoline	ND	100	NWTPH-Gx	7-25-14	7-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-112				

Date of Report: July 28, 2014
 Samples Submitted: July 24, 2014
 Laboratory Reference: 1407-225
 Project: 397-010

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0725W1					
Benzene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
Toluene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
Ethyl Benzene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
m,p-Xylene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
o-Xylene	ND	1.0	EPA 8021B	7-25-14	7-25-14	
Gasoline	ND	100	NWTPH-Gx	7-25-14	7-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	71-112				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-225-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				93	93	71-112		

SPIKE BLANKS

Laboratory ID:	SB0725W1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	51.0	49.9	50.0	50.0	102	100	86-116	2	11
Toluene	51.5	50.6	50.0	50.0	103	101	86-117	2	12
Ethyl Benzene	50.9	49.7	50.0	50.0	102	99	86-118	2	13
m,p-Xylene	51.0	49.9	50.0	50.0	102	100	86-118	2	14
o-Xylene	50.9	49.9	50.0	50.0	102	100	85-117	2	14
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					94	95	71-112		

Date of Report: July 28, 2014
 Samples Submitted: July 24, 2014
 Laboratory Reference: 1407-225
 Project: 397-010

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	F-MW-130-072414					
Laboratory ID:	07-225-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chloromethane	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Bromomethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chloroethane	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Iodomethane	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	7-25-14	7-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
(cis) 1,2-Dichloroethene	0.51	0.20	EPA 8260C	7-25-14	7-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chloroform	0.91	0.20	EPA 8260C	7-25-14	7-25-14	
1,1,1-Trichloroethane	0.26	0.20	EPA 8260C	7-25-14	7-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Trichloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Dibromomethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	7-25-14	7-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-14	7-25-14	

Date of Report: July 28, 2014
 Samples Submitted: July 24, 2014
 Laboratory Reference: 1407-225
 Project: 397-010

HALOGENATED VOLATILES EPA 8260C

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	F-MW-130-072414					
Laboratory ID:	07-225-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Tetrachloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Bromoform	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Bromobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	7-25-14	7-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-120</i>				

Date of Report: July 28, 2014
 Samples Submitted: July 24, 2014
 Laboratory Reference: 1407-225
 Project: 397-010

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

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chloromethane	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Vinyl Chloride	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Bromomethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chloroethane	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Iodomethane	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Methylene Chloride	ND	1.0	EPA 8260C	7-25-14	7-25-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Bromochloromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chloroform	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Trichloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Dibromomethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Bromodichloromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	7-25-14	7-25-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-25-14	7-25-14	

Date of Report: July 28, 2014
 Samples Submitted: July 24, 2014
 Laboratory Reference: 1407-225
 Project: 397-010

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

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0725W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Tetrachloroethene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Dibromochloromethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Chlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Bromoform	ND	1.0	EPA 8260C	7-25-14	7-25-14	
Bromobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-25-14	7-25-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	7-25-14	7-25-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-25-14	7-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	62-122				
<i>Toluene-d8</i>	99	70-120				
<i>4-Bromofluorobenzene</i>	95	71-120				

Date of Report: July 28, 2014
 Samples Submitted: July 24, 2014
 Laboratory Reference: 1407-225
 Project: 397-010

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	07-225-01										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	9.22	9.29	10.0	10.0	ND	92	93	57-133	1	15	
Benzene	9.68	9.81	10.0	10.0	ND	97	98	78-117	1	15	
Trichloroethene	9.61	9.56	10.0	10.0	ND	96	96	77-120	1	15	
Toluene	9.48	9.60	10.0	10.0	ND	95	96	80-115	1	15	
Chlorobenzene	9.26	9.32	10.0	10.0	ND	93	93	80-122	1	15	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>						99	102	62-122			
<i>Toluene-d8</i>						99	101	70-120			
<i>4-Bromofluorobenzene</i>						95	97	71-120			



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



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

Chain of Custody

Company: Farallon
 Project Number: 397-010
 Project Name: Block 43
 Project Manager: Jen Moore
 Sampled by: Ryan Ostrom

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 _____ (other)

Laboratory Number:

07-225

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total FCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
<u>1</u>	<u>F-MW-130-072417</u>	<u>7/24/14</u>	<u>1053</u>	<u>W</u>	<u>6</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>												
		<u>RO</u>																					

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Ryan Ostrom</u>	<u>Farallon</u>	<u>7/24/14</u>	<u>1352</u>	
Received	<u>[Signature]</u>	<u>[Signature]</u>	<u>7/24/14</u>	<u>1352</u>	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/>



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

July 11, 2017

Rob Leet
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1707-004

Dear Rob:

Enclosed are the analytical results and associated quality control data for samples submitted on July 3, 2017.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: July 11, 2017
Samples Submitted: July 3, 2017
Laboratory Reference: 1707-004
Project: 397-019

Case Narrative

Samples were collected on July 3, 2017 and received by the laboratory on July 3, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: July 11, 2017
 Samples Submitted: July 3, 2017
 Laboratory Reference: 1707-004
 Project: 397-019

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-130-070317					
Laboratory ID:	07-004-01					
Gasoline	ND	100	NWTPH-Gx	7-6-17	7-6-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	61-118				



Date of Report: July 11, 2017
 Samples Submitted: July 3, 2017
 Laboratory Reference: 1707-004
 Project: 397-019

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0706W1					
Gasoline	ND	100	NWTPH-Gx	7-6-17	7-6-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-353-32							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				86	85	61-118		



Date of Report: July 11, 2017
 Samples Submitted: July 3, 2017
 Laboratory Reference: 1707-004
 Project: 397-019

VOLATILES EPA 8260C
 Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-130-070317					
Laboratory ID:	07-004-01					
Dichlorodifluoromethane	ND	0.35	EPA 8260C	7-5-17	7-5-17	
Chloromethane	ND	1.3	EPA 8260C	7-5-17	7-5-17	
Vinyl Chloride	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromomethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Chloroethane	ND	1.0	EPA 8260C	7-5-17	7-5-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Acetone	ND	5.0	EPA 8260C	7-5-17	7-5-17	
Iodomethane	ND	1.7	EPA 8260C	7-5-17	7-5-17	
Carbon Disulfide	ND	0.43	EPA 8260C	7-5-17	7-5-17	
Methylene Chloride	ND	1.0	EPA 8260C	7-5-17	7-5-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Vinyl Acetate	ND	1.0	EPA 8260C	7-5-17	7-5-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Butanone	ND	5.0	EPA 8260C	7-5-17	7-5-17	
Bromochloromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Chloroform	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Benzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Trichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Dibromomethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromodichloromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	7-5-17	7-5-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-5-17	7-5-17	
Toluene	ND	1.0	EPA 8260C	7-5-17	7-5-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-5-17	7-5-17	



Date of Report: July 11, 2017
 Samples Submitted: July 3, 2017
 Laboratory Reference: 1707-004
 Project: 397-019

VOLATILES EPA 8260C
 Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-130-070317					
Laboratory ID:	07-004-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Tetrachloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Hexanone	ND	2.0	EPA 8260C	7-5-17	7-5-17	
Dibromochloromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Chlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Ethylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
m,p-Xylene	ND	0.40	EPA 8260C	7-5-17	7-5-17	
o-Xylene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Styrene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromoform	ND	1.0	EPA 8260C	7-5-17	7-5-17	
Isopropylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
n-Propylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
n-Butylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Naphthalene	ND	1.0	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



Date of Report: July 11, 2017
 Samples Submitted: July 3, 2017
 Laboratory Reference: 1707-004
 Project: 397-019

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

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0705W2					
Dichlorodifluoromethane	ND	0.35	EPA 8260C	7-5-17	7-5-17	
Chloromethane	ND	1.3	EPA 8260C	7-5-17	7-5-17	
Vinyl Chloride	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromomethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Chloroethane	ND	1.0	EPA 8260C	7-5-17	7-5-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Acetone	ND	5.0	EPA 8260C	7-5-17	7-5-17	
Iodomethane	ND	1.7	EPA 8260C	7-5-17	7-5-17	
Carbon Disulfide	ND	0.43	EPA 8260C	7-5-17	7-5-17	
Methylene Chloride	ND	1.0	EPA 8260C	7-5-17	7-5-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Vinyl Acetate	ND	1.0	EPA 8260C	7-5-17	7-5-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Butanone	ND	5.0	EPA 8260C	7-5-17	7-5-17	
Bromochloromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Chloroform	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Benzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Trichloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Dibromomethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromodichloromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	7-5-17	7-5-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	7-5-17	7-5-17	
Toluene	ND	1.0	EPA 8260C	7-5-17	7-5-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-5-17	7-5-17	



Date of Report: July 11, 2017
 Samples Submitted: July 3, 2017
 Laboratory Reference: 1707-004
 Project: 397-019

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0705W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Tetrachloroethene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Hexanone	ND	2.0	EPA 8260C	7-5-17	7-5-17	
Dibromochloromethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Chlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Ethylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
m,p-Xylene	ND	0.40	EPA 8260C	7-5-17	7-5-17	
o-Xylene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Styrene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromoform	ND	1.0	EPA 8260C	7-5-17	7-5-17	
Isopropylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Bromobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-5-17	7-5-17	
n-Propylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
n-Butylbenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
Naphthalene	ND	1.0	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-5-17	7-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: July 11, 2017
 Samples Submitted: July 3, 2017
 Laboratory Reference: 1707-004
 Project: 397-019

**VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0705W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.70	7.67	10.0	10.0	77	77	63-127	0	17	
Benzene	10.0	10.2	10.0	10.0	100	102	76-121	2	12	
Trichloroethene	8.43	8.41	10.0	10.0	84	84	64-120	0	15	
Toluene	10.3	10.6	10.0	10.0	103	106	82-120	3	13	
Chlorobenzene	8.96	9.40	10.0	10.0	90	94	80-120	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>100</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>95</i>	<i>95</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>103</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

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



Chain of Custody

Company: Farellon
 Project Number: 397-019
 Project Name: Block 38
 Project Manager: Kob Leet
 Sampled by: A Burns

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: 07-004

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture		
						<u>1</u>	<u>FMW-130-070317</u>	<u>7-3-17</u>	<u>9:40</u>	<u>Water</u>	<u>6</u>			<u>X</u>											

AB

Volatiles by 8260C

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>[Signature]</u>	<u>Farellon</u>	<u>7-3-17</u>	<u>10:32</u>	
Received	<u>[Signature]</u>	<u>[Signature]</u>	<u>7/3/17</u>	<u>1032</u>	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



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

August 24, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-217

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 21, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 24, 2018
Samples Submitted: August 21, 2018
Laboratory Reference: 1808-217
Project: 397-019

Case Narrative

Samples were collected on August 20, 2018 and received by the laboratory on August 21, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH Gx/BTEX Analysis

The MTCA Method A cleanup level of 0.030 ppm for Benzene is not achievable for sample FB-02-10.0-082018 due to the low dry weight of the sample.

Total Metals EPA 6010D/7471B Analysis

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

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-5.0-082018					
Laboratory ID:	08-217-02					
Benzene	ND	0.020	EPA 8021B	8-21-18	8-21-18	
Toluene	ND	0.054	EPA 8021B	8-21-18	8-21-18	
Ethyl Benzene	ND	0.054	EPA 8021B	8-21-18	8-21-18	
m,p-Xylene	ND	0.054	EPA 8021B	8-21-18	8-21-18	
o-Xylene	ND	0.054	EPA 8021B	8-21-18	8-21-18	
Gasoline	ND	5.4	NWTPH-Gx	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	57-129				
Client ID:	FB-02-10.0-082018					
Laboratory ID:	08-217-03					
Benzene	ND	0.037	EPA 8021B	8-21-18	8-21-18	
Toluene	ND	0.19	EPA 8021B	8-21-18	8-21-18	
Ethyl Benzene	ND	0.19	EPA 8021B	8-21-18	8-21-18	
m,p-Xylene	ND	0.19	EPA 8021B	8-21-18	8-21-18	
o-Xylene	ND	0.19	EPA 8021B	8-21-18	8-21-18	
Gasoline	ND	19	NWTPH-Gx	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	57-129				
Client ID:	FB-02-25.0-082018					
Laboratory ID:	08-217-06					
Benzene	ND	0.020	EPA 8021B	8-21-18	8-21-18	
Toluene	ND	0.052	EPA 8021B	8-21-18	8-21-18	
Ethyl Benzene	ND	0.052	EPA 8021B	8-21-18	8-21-18	
m,p-Xylene	ND	0.052	EPA 8021B	8-21-18	8-21-18	
o-Xylene	ND	0.052	EPA 8021B	8-21-18	8-21-18	
Gasoline	ND	5.2	NWTPH-Gx	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	57-129				



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-35.0-082018					
Laboratory ID:	08-217-08					
Benzene	ND	0.020	EPA 8021B	8-21-18	8-21-18	
Toluene	ND	0.058	EPA 8021B	8-21-18	8-21-18	
Ethyl Benzene	ND	0.058	EPA 8021B	8-21-18	8-21-18	
m,p-Xylene	ND	0.058	EPA 8021B	8-21-18	8-21-18	
o-Xylene	ND	0.058	EPA 8021B	8-21-18	8-21-18	
Gasoline	ND	5.8	NWTPH-Gx	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	85	57-129				



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821S1					
Benzene	ND	0.020	EPA 8021B	8-21-18	8-21-18	
Toluene	ND	0.050	EPA 8021B	8-21-18	8-21-18	
Ethyl Benzene	ND	0.050	EPA 8021B	8-21-18	8-21-18	
m,p-Xylene	ND	0.050	EPA 8021B	8-21-18	8-21-18	
o-Xylene	ND	0.050	EPA 8021B	8-21-18	8-21-18	
Gasoline	ND	5.0	NWTPH-Gx	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-170-14							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				89	91	57-129		

SPIKE BLANKS

Laboratory ID:	SB0821S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.875	0.882	1.00	1.00	88	88	69-111	1	10
Toluene	0.868	0.873	1.00	1.00	87	87	70-114	1	11
Ethyl Benzene	0.868	0.876	1.00	1.00	87	88	70-115	1	10
m,p-Xylene	0.860	0.863	1.00	1.00	86	86	72-115	0	10
o-Xylene	0.890	0.884	1.00	1.00	89	88	71-115	1	11
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					86	86	57-129		



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**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:	FB-02-5.0-082018					
Laboratory ID:	08-217-02					
Diesel Range Organics	280	150	NWTPH-Dx	8-22-18	8-22-18	N
Lube Oil Range Organics	670	310	NWTPH-Dx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	FB-02-10.0-082018					
Laboratory ID:	08-217-03					
Diesel Range Organics	ND	61	NWTPH-Dx	8-22-18	8-22-18	
Lube Oil Range Organics	270	120	NWTPH-Dx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Client ID:	FB-02-25.0-082018					
Laboratory ID:	08-217-06					
Diesel Range Organics	ND	30	NWTPH-Dx	8-22-18	8-22-18	
Lube Oil Range Organics	ND	60	NWTPH-Dx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	FB-02-35.0-082018					
Laboratory ID:	08-217-08					
Diesel Range Organics	ND	31	NWTPH-Dx	8-22-18	8-22-18	
Lube Oil Range Organics	ND	62	NWTPH-Dx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**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:	MB0822S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-22-18	8-22-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	121	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-170-16							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range Organics	149	126	NA	NA	NA	NA	17	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				115	103	50-150		



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-10.0-082018					
Laboratory ID:	08-217-03					
Dichlorodifluoromethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Chloromethane	ND	0.014	EPA 8260C	8-21-18	8-21-18	
Vinyl Chloride	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Bromomethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Chloroethane	ND	0.014	EPA 8260C	8-21-18	8-21-18	
Trichlorofluoromethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloroethene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Iodomethane	ND	0.028	EPA 8260C	8-21-18	8-21-18	
Methylene Chloride	ND	0.014	EPA 8260C	8-21-18	8-21-18	
(trans) 1,2-Dichloroethene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloroethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
2,2-Dichloropropane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
(cis) 1,2-Dichloroethene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Bromochloromethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Chloroform	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,1,1-Trichloroethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Carbon Tetrachloride	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloropropene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,2-Dichloroethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Trichloroethene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,2-Dichloropropane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Dibromomethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Bromodichloromethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
2-Chloroethyl Vinyl Ether	ND	0.014	EPA 8260C	8-21-18	8-21-18	
(cis) 1,3-Dichloropropene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
(trans) 1,3-Dichloropropene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-10.0-082018					
Laboratory ID:	08-217-03					
1,1,2-Trichloroethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Tetrachloroethene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,3-Dichloropropane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Dibromochloromethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,2-Dibromoethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Chlorobenzene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,1,1,2-Tetrachloroethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Bromoform	ND	0.014	EPA 8260C	8-21-18	8-21-18	
Bromobenzene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,1,2,2-Tetrachloroethane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,2,3-Trichloropropane	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
2-Chlorotoluene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
4-Chlorotoluene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,3-Dichlorobenzene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,4-Dichlorobenzene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,2-Dichlorobenzene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
1,2-Dibromo-3-chloropropane	ND	0.014	EPA 8260C	8-21-18	8-21-18	
1,2,4-Trichlorobenzene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
Hexachlorobutadiene	ND	0.014	EPA 8260C	8-21-18	8-21-18	
1,2,3-Trichlorobenzene	ND	0.0028	EPA 8260C	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>71-132</i>				



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-25.0-082018					
Laboratory ID:	08-217-06					
Dichlorodifluoromethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Chloromethane	ND	0.0043	EPA 8260C	8-21-18	8-21-18	
Vinyl Chloride	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Bromomethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Chloroethane	ND	0.0043	EPA 8260C	8-21-18	8-21-18	
Trichlorofluoromethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloroethene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Iodomethane	ND	0.0085	EPA 8260C	8-21-18	8-21-18	
Methylene Chloride	ND	0.0043	EPA 8260C	8-21-18	8-21-18	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloroethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
2,2-Dichloropropane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Bromochloromethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Chloroform	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Carbon Tetrachloride	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloropropene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,2-Dichloroethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Trichloroethene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,2-Dichloropropane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Dibromomethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Bromodichloromethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-21-18	8-21-18	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-25.0-082018					
Laboratory ID:	08-217-06					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Tetrachloroethene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,3-Dichloropropane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Dibromochloromethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,2-Dibromoethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Chlorobenzene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Bromoform	ND	0.0043	EPA 8260C	8-21-18	8-21-18	
Bromobenzene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
2-Chlorotoluene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
4-Chlorotoluene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-21-18	8-21-18	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-21-18	8-21-18	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260C	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-132</i>				



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0821S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Chloromethane	ND	0.0050	EPA 8260C	8-21-18	8-21-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Bromomethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Chloroethane	ND	0.0050	EPA 8260C	8-21-18	8-21-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Iodomethane	ND	0.0050	EPA 8260C	8-21-18	8-21-18	
Methylene Chloride	ND	0.0065	EPA 8260C	8-21-18	8-21-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Bromochloromethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Chloroform	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Trichloroethene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Dibromomethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-21-18	8-21-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	



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 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0821S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Chlorobenzene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Bromoform	ND	0.0050	EPA 8260C	8-21-18	8-21-18	
Bromobenzene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-21-18	8-21-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-21-18	8-21-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-21-18	8-21-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>71-132</i>				



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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0821S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0511	0.0534	0.0500	0.0500	102	107	53-141	4	17	
Benzene	0.0432	0.0439	0.0500	0.0500	86	88	70-130	2	15	
Trichloroethene	0.0520	0.0545	0.0500	0.0500	104	109	74-122	5	16	
Toluene	0.0493	0.0505	0.0500	0.0500	99	101	76-130	2	15	
Chlorobenzene	0.0477	0.0479	0.0500	0.0500	95	96	75-120	0	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					95	92	68-139			
<i>Toluene-d8</i>					97	98	79-128			
<i>4-Bromofluorobenzene</i>					94	92	71-132			



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
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 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-25.0-082018					
Laboratory ID:	08-217-06					
n-Nitrosodimethylamine	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Pyridine	ND	0.40	EPA 8270D	8-22-18	8-22-18	
Phenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Aniline	ND	0.20	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2-Chlorophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
1,3-Dichlorobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
1,4-Dichlorobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Benzyl alcohol	ND	0.20	EPA 8270D	8-22-18	8-22-18	
1,2-Dichlorobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270D	8-22-18	8-22-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270D	8-22-18	8-22-18	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Hexachloroethane	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Nitrobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Isophorone	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2-Nitrophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,4-Dimethylphenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,4-Dichlorophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Naphthalene	0.083	0.040	EPA 8270D	8-22-18	8-22-18	
4-Chloroaniline	ND	0.20	EPA 8270D	8-22-18	8-22-18	
Hexachlorobutadiene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2-Methylnaphthalene	0.024	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
1-Methylnaphthalene	0.020	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,3-Dichloroaniline	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2-Chloronaphthalene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2-Nitroaniline	ND	0.040	EPA 8270D	8-22-18	8-22-18	
1,4-Dinitrobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Dimethylphthalate	ND	0.040	EPA 8270D	8-22-18	8-22-18	
1,3-Dinitrobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,6-Dinitrotoluene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
1,2-Dinitrobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
3-Nitroaniline	ND	0.040	EPA 8270D	8-22-18	8-22-18	



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-25.0-082018					
Laboratory ID:	08-217-06					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	8-22-18	8-22-18	
Acenaphthene	0.027	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
4-Nitrophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,4-Dinitrotoluene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Dibenzofuran	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Diethylphthalate	ND	0.20	EPA 8270D	8-22-18	8-22-18	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270D	8-22-18	8-22-18	
4-Nitroaniline	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Fluorene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	8-22-18	8-22-18	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270D	8-22-18	8-22-18	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270D	8-22-18	8-22-18	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Hexachlorobenzene	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Pentachlorophenol	ND	0.20	EPA 8270D	8-22-18	8-22-18	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Anthracene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Carbazole	ND	0.040	EPA 8270D	8-22-18	8-22-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	8-22-18	8-22-18	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Benzidine	ND	0.40	EPA 8270D	8-22-18	8-22-18	
Pyrene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	8-22-18	8-22-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	8-22-18	8-22-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	8-22-18	8-22-18	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Chrysene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	8-22-18	8-22-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	8-22-18	8-22-18	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Indeno[1,2,3-cd]pyrene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>74</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>72</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>69</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>82</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>38 - 108</i>				



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**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Pyridine	ND	0.33	EPA 8270D	8-22-18	8-22-18	
Phenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Aniline	ND	0.17	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-22-18	8-22-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Isophorone	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	



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**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Carbazole	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzidine	ND	0.33	EPA 8270D	8-22-18	8-22-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	86	19 - 103				
Phenol-d6	87	30 - 103				
Nitrobenzene-d5	84	27 - 105				
2-Fluorobiphenyl	92	36 - 102				
2,4,6-Tribromophenol	99	33 - 110				
Terphenyl-d14	92	38 - 108				



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0822S1									
Phenol	0.988	1.12	1.33	1.33	74	84	45 - 94	13	29	
2-Chlorophenol	1.05	1.21	1.33	1.33	79	91	46 - 94	14	33	
1,4-Dichlorobenzene	0.511	0.581	0.667	0.667	77	87	42 - 91	13	37	
n-Nitroso-di-n-propylamine	0.506	0.568	0.667	0.667	76	85	45 - 100	12	26	
1,2,4-Trichlorobenzene	0.559	0.579	0.667	0.667	84	87	45 - 100	4	32	
4-Chloro-3-methylphenol	1.09	1.13	1.33	1.33	82	85	55 - 97	4	21	
Acenaphthene	0.539	0.564	0.667	0.667	81	85	48 - 91	5	21	
4-Nitrophenol	1.06	1.17	1.33	1.33	80	88	53 - 102	10	20	
2,4-Dinitrotoluene	0.527	0.583	0.667	0.667	79	87	47 - 96	10	19	
Pentachlorophenol	1.34	1.40	1.33	1.33	101	105	35 - 125	4	26	
Pyrene	0.534	0.561	0.667	0.667	80	84	55 - 110	5	17	
<i>Surrogate:</i>										
2-Fluorophenol					72	81	19 - 103			
Phenol-d6					73	80	30 - 103			
Nitrobenzene-d5					72	73	27 - 105			
2-Fluorobiphenyl					79	80	36 - 102			
2,4,6-Tribromophenol					86	85	33 - 110			
Terphenyl-d14					76	78	38 - 108			



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-10.0-082018					
Laboratory ID:	08-217-03					
Arsenic	ND	12	EPA 6010D	8-23-18	8-23-18	
Barium	190	6.1	EPA 6010D	8-23-18	8-23-18	
Cadmium	ND	1.2	EPA 6010D	8-23-18	8-23-18	
Chromium	36	1.2	EPA 6010D	8-23-18	8-23-18	
Lead	24	12	EPA 6010D	8-23-18	8-23-18	
Mercury	1.2	0.61	EPA 7471B	8-22-18	8-22-18	
Selenium	ND	12	EPA 6010D	8-23-18	8-23-18	
Silver	ND	2.5	EPA 6010D	8-23-18	8-23-18	



Date of Report: August 24, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217
 Project: 397-019

**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:	MB0823SM1					
Arsenic	ND	5.0	EPA 6010D	8-23-18	8-23-18	
Barium	ND	2.5	EPA 6010D	8-23-18	8-23-18	
Cadmium	ND	0.50	EPA 6010D	8-23-18	8-23-18	
Chromium	ND	0.50	EPA 6010D	8-23-18	8-23-18	
Lead	ND	5.0	EPA 6010D	8-23-18	8-23-18	
Selenium	ND	5.0	EPA 6010D	8-23-18	8-23-18	
Silver	ND	1.0	EPA 6010D	8-23-18	8-23-18	

Laboratory ID:	MB0822S1					
Mercury	ND	0.25	EPA 7471B	8-22-18	8-22-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-239-08							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	92.2	83.3	NA	NA	NA	10	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	8.30	5.65	NA	NA	NA	38	20	K
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	08-218-01							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	08-239-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	93.1	95.5	100	100	ND	93	96	75-125	3	20
Barium	188	184	100	100	92.2	96	92	75-125	2	20
Cadmium	46.3	45.8	50.0	50.0	ND	93	92	75-125	1	20
Chromium	102	102	100	100	8.30	94	94	75-125	0	20
Lead	232	233	250	250	ND	93	93	75-125	1	20
Selenium	91.2	92.2	100	100	ND	91	92	75-125	1	20
Silver	21.8	21.9	25.0	25.0	ND	87	88	75-125	1	20

Laboratory ID:	08-218-01									
Mercury	0.562	0.540	0.500	0.500	0.0190	109	104	80-120	4	20



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

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

Date of Report: August 24, 2018
Samples Submitted: August 21, 2018
Laboratory Reference: 1808-217
Project: 397-019

% MOISTURE

Date Analyzed: 8-22-18

Client ID	Lab ID	% Moisture
FB-02-5.0-082018	08-217-02	18
FB-02-10.0-082018	08-217-03	59
FB-02-25.0-082018	08-217-06	17
FB-02-35.0-082018	08-217-08	19





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Number of Containers

Sample ID	Date Sampled	Time Sampled	Matrix	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	
1	8/20/18	1555	Soil		X		X														
2	8/20/18	1220			X		X														
3	8/20/18	1235			X		X		X									X			
4	8/20/18	1245																			
5	8/20/18	1310																			
6	8/20/18	1430			X		X		X												
7	8/20/18	1454																			
8	8/20/18	1520			X		X														

% Moisture

Laboratory Number: **08-217**

Company: Fireallon

Project Number: 397-019

Project Name: Block 38 West Property

Project Manager: Jarvan Ruark
Greg Peters

Sampled by:

Lab ID: _____ Sample Identification: _____

1	FB-02-30-082018	8/20/18	1555	Soil	5
2	FB-02-50-082018	8/20/18	1220		
3	FB-02-100-082018	8/20/18	1235		
4	FB-02-150-082018	8/20/18	1245		
5	FB-02-200-082018	8/20/18	1310		
6	FB-02-250-082018	8/20/18	1430		
7	FB-02-300-082018	8/20/18	1454		
8	FB-02-350-082018	8/20/18	1520		

Signature	Company
	Fireallon
	OTE

Date	Time
8/20/18	1845
8/21/18	1000

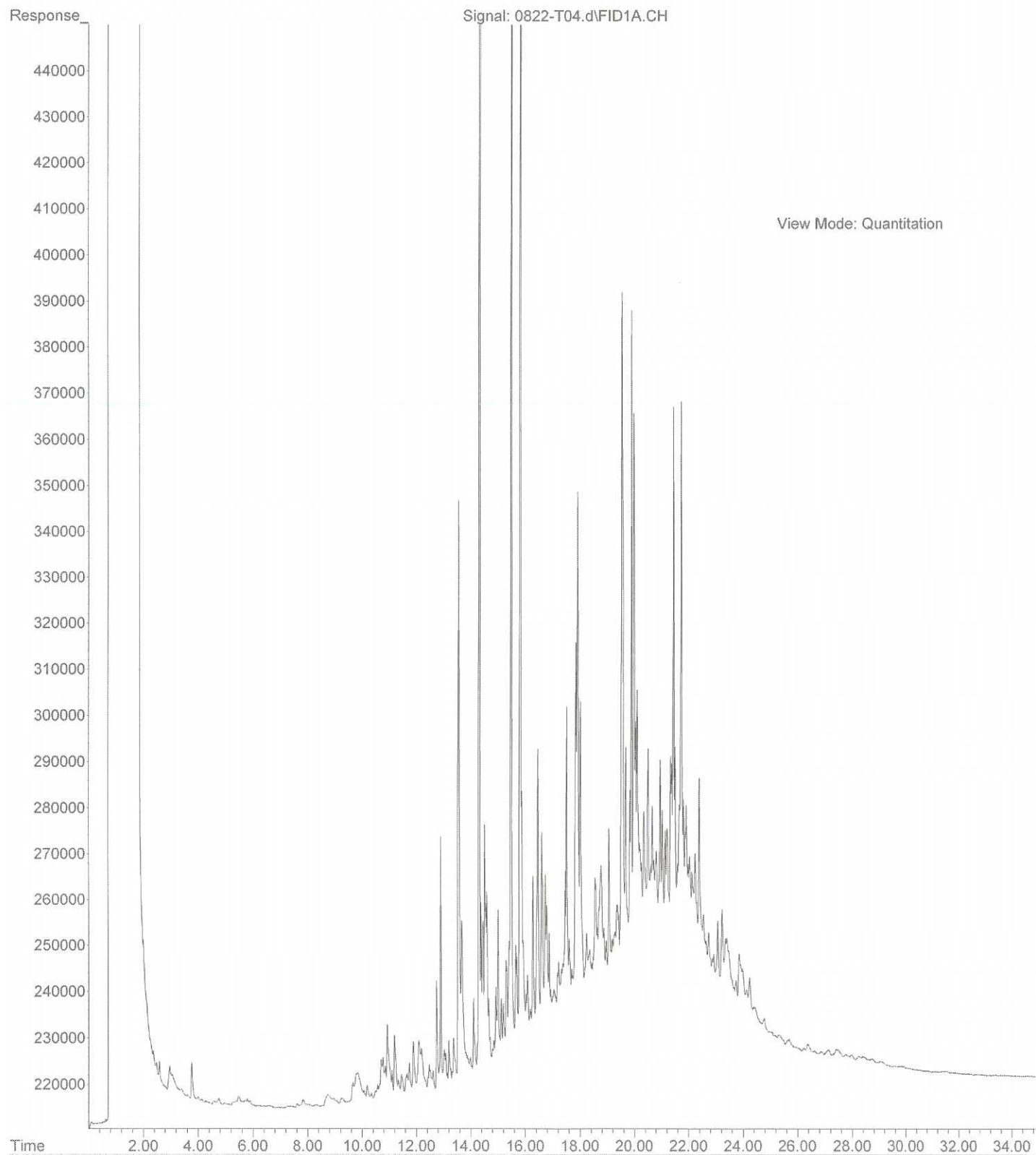
Comments/Special Instructions
Please contact Project Manager for Averages and turnaround time requests!!
AS 8/22/18

Relinquished	Received	Relinquished	Received	Relinquished	Received
Relinquished	Received	Relinquished	Received	Relinquished	Received
Reviewed/Date	Reviewed/Date	Reviewed/Date	Reviewed/Date	Reviewed/Date	Reviewed/Date

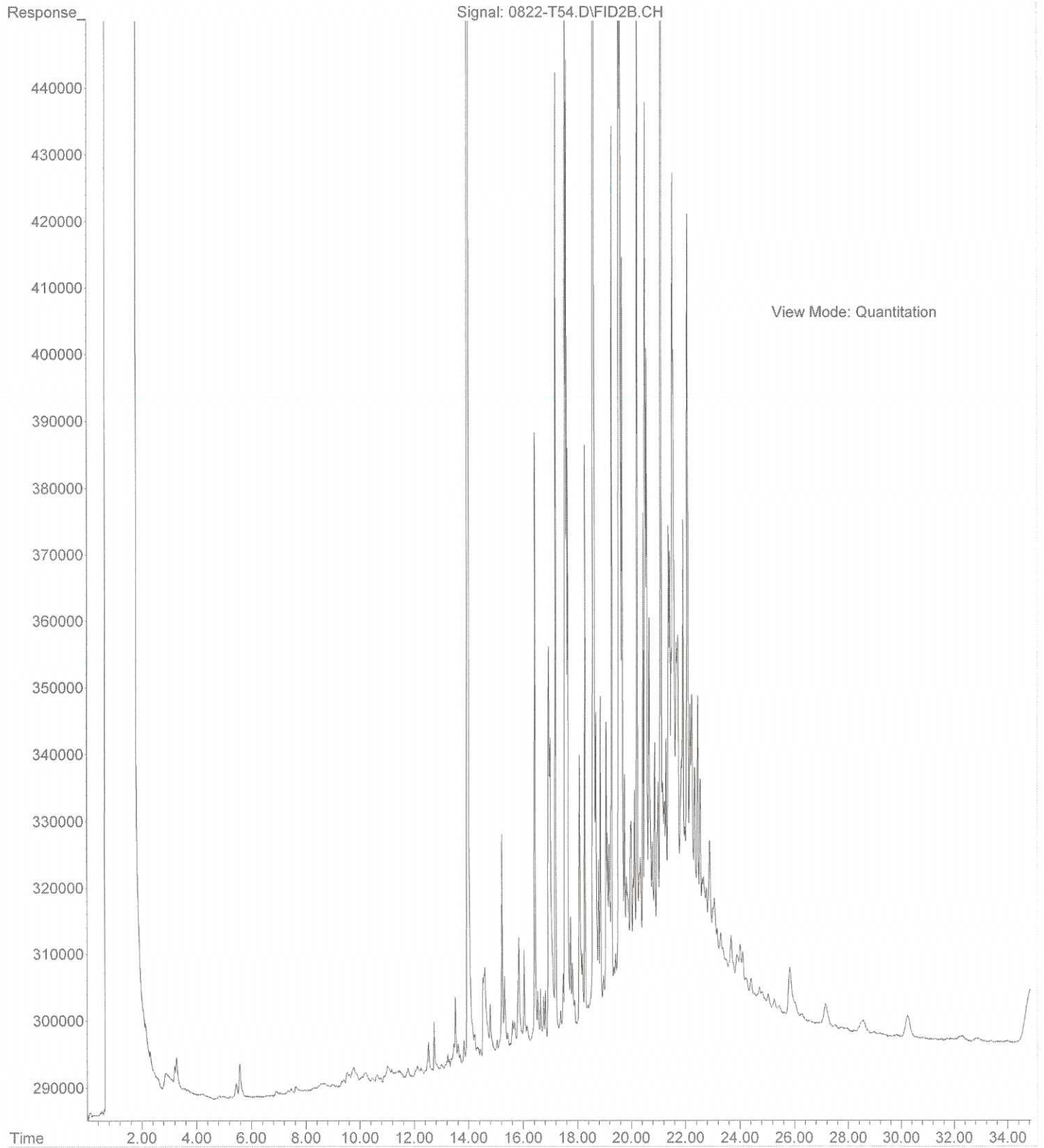
Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

File :C:\msdchem\1\data\T180822\0822-T04.d
Operator : JT
Acquired : 22 Aug 2018 11:01 using AcqMethod T180110F.M
Instrument : Teri
Sample Name: 08-217-02 5X
Misc Info :
Vial Number: 4



File :C:\msdchem\1\data\T180822.SEC\0822-T54.D
Operator : JT
Acquired : 22 Aug 2018 11:01 using AcqMethod T180110F.M
Instrument : Teri
Sample Name: 08-217-03
Misc Info :
Vial Number: 54





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

September 26, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-217B

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 21, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 26, 2018
Samples Submitted: August 21, 2018
Laboratory Reference: 1808-217B
Project: 397-019

Case Narrative

Samples were collected on August 20, 2018 and received by the laboratory on August 21, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: September 26, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217B
 Project: 397-019

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:	FB-02-5.0-082018					
Laboratory ID:	08-217-02					
n-Nitrosodimethylamine	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Pyridine	ND	3.0	EPA 8270D	9-1-18	9-24-18	
Phenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Aniline	ND	1.5	EPA 8270D	9-1-18	9-24-18	
bis(2-Chloroethyl)ether	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2-Chlorophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
1,3-Dichlorobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
1,4-Dichlorobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Benzyl alcohol	ND	1.5	EPA 8270D	9-1-18	9-24-18	
1,2-Dichlorobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2-Methylphenol (o-Cresol)	ND	0.30	EPA 8270D	9-1-18	9-24-18	
bis(2-Chloroisopropyl)ether	ND	0.30	EPA 8270D	9-1-18	9-24-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.30	EPA 8270D	9-1-18	9-24-18	
n-Nitroso-di-n-propylamine	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Hexachloroethane	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Nitrobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Isophorone	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2-Nitrophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,4-Dimethylphenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
bis(2-Chloroethoxy)methane	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,4-Dichlorophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
1,2,4-Trichlorobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Naphthalene	1.1	0.30	EPA 8270D	9-1-18	9-24-18	
4-Chloroaniline	ND	1.5	EPA 8270D	9-1-18	9-24-18	
Hexachlorobutadiene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
4-Chloro-3-methylphenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2-Methylnaphthalene	1.3	0.30	EPA 8270D	9-1-18	9-24-18	
1-Methylnaphthalene	0.86	0.30	EPA 8270D	9-1-18	9-24-18	
Hexachlorocyclopentadiene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,4,6-Trichlorophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,3-Dichloroaniline	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,4,5-Trichlorophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2-Chloronaphthalene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2-Nitroaniline	ND	0.30	EPA 8270D	9-1-18	9-24-18	
1,4-Dinitrobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Dimethylphthalate	ND	0.30	EPA 8270D	9-1-18	9-24-18	
1,3-Dinitrobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,6-Dinitrotoluene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
1,2-Dinitrobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Acenaphthylene	0.45	0.30	EPA 8270D	9-1-18	9-24-18	
3-Nitroaniline	ND	0.30	EPA 8270D	9-1-18	9-24-18	



Date of Report: September 26, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217B
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-02-5.0-082018					
Laboratory ID:	08-217-02					
2,4-Dinitrophenol	ND	1.5	EPA 8270D	9-1-18	9-24-18	
Acenaphthene	1.4	0.30	EPA 8270D	9-1-18	9-24-18	
4-Nitrophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,4-Dinitrotoluene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Dibenzofuran	0.71	0.30	EPA 8270D	9-1-18	9-24-18	
2,3,5,6-Tetrachlorophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
2,3,4,6-Tetrachlorophenol	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Diethylphthalate	ND	1.5	EPA 8270D	9-1-18	9-24-18	
4-Chlorophenyl-phenylether	ND	0.30	EPA 8270D	9-1-18	9-24-18	
4-Nitroaniline	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Fluorene	1.3	0.30	EPA 8270D	9-1-18	9-24-18	
4,6-Dinitro-2-methylphenol	ND	1.5	EPA 8270D	9-1-18	9-24-18	
n-Nitrosodiphenylamine	ND	0.30	EPA 8270D	9-1-18	9-24-18	
1,2-Diphenylhydrazine	ND	0.30	EPA 8270D	9-1-18	9-24-18	
4-Bromophenyl-phenylether	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Hexachlorobenzene	ND	0.30	EPA 8270D	9-1-18	9-24-18	
Pentachlorophenol	ND	1.5	EPA 8270D	9-1-18	9-24-18	
Phenanthrene	12	0.30	EPA 8270D	9-1-18	9-24-18	
Anthracene	3.3	0.30	EPA 8270D	9-1-18	9-24-18	
Carbazole	0.55	0.30	EPA 8270D	9-1-18	9-24-18	
Di-n-butylphthalate	ND	1.5	EPA 8270D	9-1-18	9-24-18	
Fluoranthene	18	0.30	EPA 8270D	9-1-18	9-24-18	
Benzidine	ND	3.0	EPA 8270D	9-1-18	9-24-18	
Pyrene	25	1.2	EPA 8270D	9-1-18	9-25-18	
Butylbenzylphthalate	ND	1.5	EPA 8270D	9-1-18	9-24-18	
bis-2-Ethylhexyladipate	ND	1.5	EPA 8270D	9-1-18	9-24-18	
3,3'-Dichlorobenzidine	ND	1.5	EPA 8270D	9-1-18	9-24-18	
Benzo[a]anthracene	9.8	0.30	EPA 8270D	9-1-18	9-24-18	
Chrysene	9.7	0.30	EPA 8270D	9-1-18	9-24-18	
bis(2-Ethylhexyl)phthalate	ND	1.5	EPA 8270D	9-1-18	9-24-18	
Di-n-octylphthalate	ND	1.5	EPA 8270D	9-1-18	9-24-18	
Benzo[b]fluoranthene	12	0.30	EPA 8270D	9-1-18	9-24-18	
Benzo(j,k)fluoranthene	3.5	0.30	EPA 8270D	9-1-18	9-24-18	
Benzo[a]pyrene	11	0.30	EPA 8270D	9-1-18	9-24-18	
Indeno[1,2,3-cd]pyrene	8.0	0.30	EPA 8270D	9-1-18	9-24-18	
Dibenz[a,h]anthracene	1.6	0.30	EPA 8270D	9-1-18	9-24-18	
Benzo[g,h,i]perylene	8.5	0.30	EPA 8270D	9-1-18	9-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>63</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>73</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>73</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>91</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>79</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>97</i>	<i>38 - 108</i>				



Date of Report: September 26, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217B
 Project: 397-019

**SEMIVOLATILE 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:	MB0901S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Pyridine	ND	0.33	EPA 8270D	9-1-18	9-4-18	
Phenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Aniline	ND	0.17	EPA 8270D	9-1-18	9-4-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2-Chlorophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Benzyl alcohol	ND	0.17	EPA 8270D	9-1-18	9-4-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	9-1-18	9-4-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	9-1-18	9-4-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	9-1-18	9-4-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Hexachloroethane	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Nitrobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Isophorone	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2-Nitrophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
4-Chloroaniline	ND	0.17	EPA 8270D	9-1-18	9-4-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2-Nitroaniline	ND	0.033	EPA 8270D	9-1-18	9-4-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Dimethylphthalate	ND	0.033	EPA 8270D	9-1-18	9-4-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
3-Nitroaniline	ND	0.033	EPA 8270D	9-1-18	9-4-18	



Date of Report: September 26, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217B
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0901S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	9-1-18	9-4-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
4-Nitrophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Dibenzofuran	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Diethylphthalate	ND	0.17	EPA 8270D	9-1-18	9-4-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	9-1-18	9-4-18	
4-Nitroaniline	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	9-1-18	9-4-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	9-1-18	9-4-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	9-1-18	9-4-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Pentachlorophenol	ND	0.17	EPA 8270D	9-1-18	9-4-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Carbazole	ND	0.033	EPA 8270D	9-1-18	9-4-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	9-1-18	9-4-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Benzidine	ND	0.33	EPA 8270D	9-1-18	9-4-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	9-1-18	9-4-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	9-1-18	9-4-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	9-1-18	9-4-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	9-1-18	9-4-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	9-1-18	9-4-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	9-1-18	9-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>89</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>91</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>75</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>83</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>99</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>101</i>	<i>38 - 108</i>				



Date of Report: September 26, 2018
 Samples Submitted: August 21, 2018
 Laboratory Reference: 1808-217B
 Project: 397-019

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0901S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.09	1.18	1.33	1.33	82	89	45 - 94	8	29	
2-Chlorophenol	1.03	1.10	1.33	1.33	77	83	46 - 94	7	33	
1,4-Dichlorobenzene	0.521	0.524	0.667	0.667	78	79	42 - 91	1	37	
n-Nitroso-di-n-propylamine	0.526	0.582	0.667	0.667	79	87	45 - 100	10	26	
1,2,4-Trichlorobenzene	0.519	0.555	0.667	0.667	78	83	45 - 100	7	32	
4-Chloro-3-methylphenol	1.04	1.19	1.33	1.33	78	89	55 - 97	13	21	
Acenaphthene	0.533	0.577	0.667	0.667	80	87	48 - 91	8	21	
4-Nitrophenol	0.917	1.03	1.33	1.33	69	77	53 - 102	12	20	
2,4-Dinitrotoluene	0.407	0.460	0.667	0.667	61	69	47 - 96	12	19	
Pentachlorophenol	1.08	1.26	1.33	1.33	81	95	35 - 125	15	26	
Pyrene	0.581	0.627	0.667	0.667	87	94	55 - 110	8	17	
<i>Surrogate:</i>										
<i>2-Fluorophenol</i>					<i>81</i>	<i>82</i>	<i>19 - 103</i>			
<i>Phenol-d6</i>					<i>79</i>	<i>84</i>	<i>30 - 103</i>			
<i>Nitrobenzene-d5</i>					<i>69</i>	<i>74</i>	<i>27 - 105</i>			
<i>2-Fluorobiphenyl</i>					<i>76</i>	<i>78</i>	<i>36 - 102</i>			
<i>2,4,6-Tribromophenol</i>					<i>84</i>	<i>91</i>	<i>33 - 110</i>			
<i>Terphenyl-d14</i>					<i>85</i>	<i>87</i>	<i>38 - 108</i>			





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

(other)

Laboratory Number: **08-217**

Company: **Fremation**
 Project Number: **397-019**
 Project Name: **Block 38 West Property**
 Project Manager: **Jarvan Runkle**
 Sampled by: **Greg Peters**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FB-02-30-082018	8/20/18	1555	Soil	5
2	FB-02-50-082018		1220		
3	FB-02-100-082018		1235		
4	FB-02-150-082018		1245		
5	FB-02-200-082018		1310		
6	FB-02-250-082018		1430		
7	FB-02-300-082018		1454		
8	FB-02-350-082018		1520		

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
5		X	X	X				X										X
		X	X	X														X
		X	X	X														X
		X	X	X														X
		X	X	X														X
		X	X	X														X
		X	X	X														X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Fremation	8/20/18	1845	Please contact Project Manager for Analytes and turnaround time requests!! - JB 8/22/18
<i>[Signature]</i>	QTE	8/21/18	1000	AD Ador 8/21/18 JB

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Reviewed/Date

Reviewed/Date

Chromatograms with final report Electronic Data Deliverables (EDDs)

ADAMSIS requests 9/22/18. JB (57)



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

August 30, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-229

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 22, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 30, 2018
Samples Submitted: August 22, 2018
Laboratory Reference: 1808-229
Project: 397-019

Case Narrative

Samples were collected on August 21, 2018 and received by the laboratory on August 22, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH Gx/BTEX Analysis

The MTCA Method A cleanup level of 0.030 ppm for Benzene is not achievable for sample FB-04-5.0-082118 due to the low dry weight of the sample.

Total Metals EPA 6010D/7471B Analysis

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

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-5.0-082118					
Laboratory ID:	08-229-02					
Benzene	ND	0.033	EPA 8021B	8-22-18	8-22-18	
Toluene	ND	0.16	EPA 8021B	8-22-18	8-22-18	
Ethyl Benzene	ND	0.16	EPA 8021B	8-22-18	8-22-18	
m,p-Xylene	ND	0.16	EPA 8021B	8-22-18	8-22-18	
o-Xylene	ND	0.16	EPA 8021B	8-22-18	8-22-18	
Gasoline	ND	16	NWTPH-Gx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	104	57-129				
Client ID:	FB-04-20.0-082118					
Laboratory ID:	08-229-05					
Benzene	ND	0.020	EPA 8021B	8-22-18	8-22-18	
Toluene	ND	0.053	EPA 8021B	8-22-18	8-22-18	
Ethyl Benzene	ND	0.053	EPA 8021B	8-22-18	8-22-18	
m,p-Xylene	ND	0.053	EPA 8021B	8-22-18	8-22-18	
o-Xylene	ND	0.053	EPA 8021B	8-22-18	8-22-18	
Gasoline	ND	5.3	NWTPH-Gx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	57-129				
Client ID:	FB-04-30.0-082118					
Laboratory ID:	08-229-07					
Benzene	ND	0.020	EPA 8021B	8-22-18	8-22-18	
Toluene	ND	0.055	EPA 8021B	8-22-18	8-22-18	
Ethyl Benzene	ND	0.055	EPA 8021B	8-22-18	8-22-18	
m,p-Xylene	ND	0.055	EPA 8021B	8-22-18	8-22-18	
o-Xylene	ND	0.055	EPA 8021B	8-22-18	8-22-18	
Gasoline	ND	5.5	NWTPH-Gx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	57-129				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-01-5.0-082118					
Laboratory ID:	08-229-08					
Benzene	ND	0.020	EPA 8021B	8-22-18	8-22-18	
Toluene	ND	0.062	EPA 8021B	8-22-18	8-22-18	
Ethyl Benzene	ND	0.062	EPA 8021B	8-22-18	8-22-18	
m,p-Xylene	ND	0.062	EPA 8021B	8-22-18	8-22-18	
o-Xylene	ND	0.062	EPA 8021B	8-22-18	8-22-18	
Gasoline	ND	6.2	NWTPH-Gx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	57-129				
Client ID:	FB-01-15.0-082118					
Laboratory ID:	08-229-09					
Benzene	ND	0.020	EPA 8021B	8-22-18	8-22-18	
Toluene	ND	0.091	EPA 8021B	8-22-18	8-22-18	
Ethyl Benzene	ND	0.091	EPA 8021B	8-22-18	8-22-18	
m,p-Xylene	ND	0.091	EPA 8021B	8-22-18	8-22-18	
o-Xylene	ND	0.091	EPA 8021B	8-22-18	8-22-18	
Gasoline	ND	9.1	NWTPH-Gx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	105	57-129				
Client ID:	FB-01-30.0-082118					
Laboratory ID:	08-229-12					
Benzene	ND	0.020	EPA 8021B	8-22-18	8-22-18	
Toluene	ND	0.051	EPA 8021B	8-22-18	8-22-18	
Ethyl Benzene	ND	0.051	EPA 8021B	8-22-18	8-22-18	
m,p-Xylene	ND	0.051	EPA 8021B	8-22-18	8-22-18	
o-Xylene	ND	0.051	EPA 8021B	8-22-18	8-22-18	
Gasoline	ND	5.1	NWTPH-Gx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	57-129				



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**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0822S1					
Benzene	ND	0.020	EPA 8021B	8-22-18	8-22-18	
Toluene	ND	0.050	EPA 8021B	8-22-18	8-22-18	
Ethyl Benzene	ND	0.050	EPA 8021B	8-22-18	8-22-18	
m,p-Xylene	ND	0.050	EPA 8021B	8-22-18	8-22-18	
o-Xylene	ND	0.050	EPA 8021B	8-22-18	8-22-18	
Gasoline	ND	5.0	NWTPH-Gx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-229-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				104	102	57-129		

SPIKE BLANKS

Laboratory ID:	SB0822S1							
	SB	SBD	SB	SBD	SB	SBD		
Benzene	0.855	0.924	1.00	1.00	86	92	69-111	8 10
Toluene	0.842	0.912	1.00	1.00	84	91	70-114	8 11
Ethyl Benzene	0.843	0.915	1.00	1.00	84	92	70-115	8 10
m,p-Xylene	0.826	0.900	1.00	1.00	83	90	72-115	9 10
o-Xylene	0.853	0.919	1.00	1.00	85	92	71-115	7 11
<i>Surrogate:</i>								
<i>Fluorobenzene</i>					83	89	57-129	



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**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:	FB-01-5.0-082118					
Laboratory ID:	08-229-08					
Diesel Range Organics	520	320	NWTPH-Dx	8-22-18	8-24-18	
Lube Oil Range Organics	3700	640	NWTPH-Dx	8-22-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S

Client ID:	FB-01-15.0-082118					
Laboratory ID:	08-229-09					
Diesel Range Organics	ND	40	NWTPH-Dx	8-22-18	8-23-18	
Lube Oil Range Organics	250	81	NWTPH-Dx	8-22-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	116	50-150				

Client ID:	FB-01-30.0-082118					
Laboratory ID:	08-229-12					
Diesel Range Organics	ND	29	NWTPH-Dx	8-22-18	8-23-18	
Lube Oil Range Organics	ND	58	NWTPH-Dx	8-22-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



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**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:	MB0822S4					
Diesel Range Organics	ND	25	NWTPH-Dx	8-22-18	8-22-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	131	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-231-10							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				55	64	50-150		



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**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:	FB-01-5.0-082118					
Laboratory ID:	08-229-08					
Diesel Range Organics	510	160	NWTPH-Dx	8-22-18	8-25-18	X1,N
Lube Oil Range Organics	1100	320	NWTPH-Dx	8-22-18	8-25-18	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>109</i>	<i>50-150</i>				
Client ID:	FB-01-15.0-082118					
Laboratory ID:	08-229-09					
Diesel Range Organics	ND	40	NWTPH-Dx	8-22-18	8-25-18	X1
Lube Oil Range Organics	ND	81	NWTPH-Dx	8-22-18	8-25-18	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>97</i>	<i>50-150</i>				



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**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:	MB0822S4					
Diesel Range Organics	ND	25	NWTPH-Dx	8-22-18	8-25-18	X1
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-22-18	8-25-18	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-231-10							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				55	64	50-150		



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**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:	FB-04-5.0-082118					
Laboratory ID:	08-229-02					
Diesel Range Organics	97	55	NWTPH-Dx	8-23-18	8-23-18	N
Lube Oil Range Organics	540	110	NWTPH-Dx	8-23-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	FB-04-20.0-082118					
Laboratory ID:	08-229-05					
Diesel Range Organics	ND	29	NWTPH-Dx	8-23-18	8-23-18	
Lube Oil Range Organics	ND	58	NWTPH-Dx	8-23-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	FB-04-30.0-082118					
Laboratory ID:	08-229-07					
Diesel Range Organics	ND	30	NWTPH-Dx	8-23-18	8-23-18	
Lube Oil Range Organics	ND	59	NWTPH-Dx	8-23-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				



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**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:	MB0823S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-23-18	8-23-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-23-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-229-05							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				96	63	50-150		



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-20.0-082118					
Laboratory ID:	08-229-05					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-22-18	8-22-18	
Chloromethane	ND	0.0046	EPA 8260C	8-22-18	8-22-18	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Bromomethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Chloroethane	ND	0.0046	EPA 8260C	8-22-18	8-22-18	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Iodomethane	ND	0.0046	EPA 8260C	8-22-18	8-22-18	
Methylene Chloride	ND	0.0046	EPA 8260C	8-22-18	8-22-18	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Bromochloromethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Chloroform	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Trichloroethene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Dibromomethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	8-22-18	8-22-18	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-20.0-082118					
Laboratory ID:	08-229-05					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Tetrachloroethene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Chlorobenzene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Bromoform	ND	0.0046	EPA 8260C	8-22-18	8-22-18	
Bromobenzene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-22-18	8-22-18	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	8-22-18	8-22-18	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-22-18	8-22-18	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-132</i>				



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METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-22-18	8-22-18	
Chloromethane	ND	0.0050	EPA 8260C	8-22-18	8-22-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Bromomethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Chloroethane	ND	0.0050	EPA 8260C	8-22-18	8-22-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Iodomethane	ND	0.0050	EPA 8260C	8-22-18	8-22-18	
Methylene Chloride	ND	0.0050	EPA 8260C	8-22-18	8-22-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Bromochloromethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Chloroform	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Trichloroethene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Dibromomethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-22-18	8-22-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	



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METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Chlorobenzene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Bromoform	ND	0.0050	EPA 8260C	8-22-18	8-22-18	
Bromobenzene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-22-18	8-22-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260C	8-22-18	8-22-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-22-18	8-22-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-132</i>				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0822S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0491	0.0531	0.0500	0.0500	98	106	53-141	8	17	
Benzene	0.0466	0.0535	0.0500	0.0500	93	107	70-130	14	15	
Trichloroethene	0.0469	0.0529	0.0500	0.0500	94	106	74-122	12	16	
Toluene	0.0490	0.0543	0.0500	0.0500	98	109	76-130	10	15	
Chlorobenzene	0.0444	0.0496	0.0500	0.0500	89	99	75-120	11	14	
<i>Surrogate:</i>										
Dibromofluoromethane					96	91	68-139			
Toluene-d8					103	100	79-128			
4-Bromofluorobenzene					103	104	71-132			



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Potable-082118					
Laboratory ID:	08-229-16					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Chloromethane	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Vinyl Chloride	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromomethane	ND	2.0	EPA 8260C	8-23-18	8-23-18	
Chloroethane	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Acetone	10	5.0	EPA 8260C	8-23-18	8-23-18	
Iodomethane	ND	5.0	EPA 8260C	8-23-18	8-23-18	
Carbon Disulfide	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Methylene Chloride	ND	1.0	EPA 8260C	8-23-18	8-23-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Vinyl Acetate	ND	1.0	EPA 8260C	8-23-18	8-23-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
2-Butanone	ND	5.0	EPA 8260C	8-23-18	8-23-18	
Bromochloromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Chloroform	16	0.20	EPA 8260C	8-23-18	8-23-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Benzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Trichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Dibromomethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromodichloromethane	1.6	0.20	EPA 8260C	8-23-18	8-23-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-23-18	8-23-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-23-18	8-23-18	
Toluene	ND	1.0	EPA 8260C	8-23-18	8-23-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-18	8-23-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Potable-082118					
Laboratory ID:	08-229-16					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Tetrachloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
2-Hexanone	ND	2.0	EPA 8260C	8-23-18	8-23-18	
Dibromochloromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Chlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Ethylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
m,p-Xylene	ND	0.40	EPA 8260C	8-23-18	8-23-18	
o-Xylene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Styrene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromoform	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Isopropylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
n-Propylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
n-Butylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-23-18	8-23-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Naphthalene	ND	1.0	EPA 8260C	8-23-18	8-23-18	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	8-23-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>85</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

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

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0823W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Chloromethane	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Vinyl Chloride	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromomethane	ND	2.0	EPA 8260C	8-23-18	8-23-18	
Chloroethane	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Acetone	ND	5.0	EPA 8260C	8-23-18	8-23-18	
Iodomethane	ND	5.0	EPA 8260C	8-23-18	8-23-18	
Carbon Disulfide	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Methylene Chloride	ND	1.0	EPA 8260C	8-23-18	8-23-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Vinyl Acetate	ND	1.0	EPA 8260C	8-23-18	8-23-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
2-Butanone	ND	5.0	EPA 8260C	8-23-18	8-23-18	
Bromochloromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Chloroform	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Benzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Trichloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Dibromomethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromodichloromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-23-18	8-23-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-23-18	8-23-18	
Toluene	ND	1.0	EPA 8260C	8-23-18	8-23-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-18	8-23-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0823W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Tetrachloroethene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
2-Hexanone	ND	2.0	EPA 8260C	8-23-18	8-23-18	
Dibromochloromethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Chlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Ethylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
m,p-Xylene	ND	0.40	EPA 8260C	8-23-18	8-23-18	
o-Xylene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Styrene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromoform	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Isopropylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Bromobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-23-18	8-23-18	
n-Propylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
n-Butylbenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-23-18	8-23-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-23-18	8-23-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	8-23-18	8-23-18	
Naphthalene	ND	1.0	EPA 8260C	8-23-18	8-23-18	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	8-23-18	8-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>89</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0823W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	10.2	10.0	10.0	108	102	62-129	6	15	
Benzene	10.6	9.90	10.0	10.0	106	99	77-127	7	15	
Trichloroethene	10.1	9.52	10.0	10.0	101	95	70-120	6	15	
Toluene	10.4	9.86	10.0	10.0	104	99	82-123	5	15	
Chlorobenzene	10.0	9.49	10.0	10.0	100	95	79-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>89</i>	<i>90</i>	<i>75-127</i>			
<i>Toluene-d8</i>					<i>89</i>	<i>90</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>96</i>	<i>97</i>	<i>78-125</i>			



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-01-5.0-082118					
Laboratory ID:	08-229-08					
n-Nitrosodimethylamine	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Pyridine	ND	8.6	EPA 8270D	8-22-18	8-24-18	
Phenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Aniline	ND	4.3	EPA 8270D	8-22-18	8-24-18	
bis(2-Chloroethyl)ether	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2-Chlorophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
1,3-Dichlorobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
1,4-Dichlorobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Benzyl alcohol	ND	4.3	EPA 8270D	8-22-18	8-24-18	
1,2-Dichlorobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2-Methylphenol (o-Cresol)	ND	0.86	EPA 8270D	8-22-18	8-24-18	
bis(2-Chloroisopropyl)ether	ND	0.86	EPA 8270D	8-22-18	8-24-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.86	EPA 8270D	8-22-18	8-24-18	
n-Nitroso-di-n-propylamine	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Hexachloroethane	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Nitrobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Isophorone	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2-Nitrophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,4-Dimethylphenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
bis(2-Chloroethoxy)methane	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,4-Dichlorophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
1,2,4-Trichlorobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Naphthalene	0.99	0.86	EPA 8270D	8-22-18	8-24-18	
4-Chloroaniline	ND	4.3	EPA 8270D	8-22-18	8-24-18	
Hexachlorobutadiene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
4-Chloro-3-methylphenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2-Methylnaphthalene	1.2	0.86	EPA 8270D	8-22-18	8-24-18	
1-Methylnaphthalene	1.1	0.86	EPA 8270D	8-22-18	8-24-18	
Hexachlorocyclopentadiene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,4,6-Trichlorophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,3-Dichloroaniline	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,4,5-Trichlorophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2-Chloronaphthalene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2-Nitroaniline	ND	0.86	EPA 8270D	8-22-18	8-24-18	
1,4-Dinitrobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Dimethylphthalate	ND	0.86	EPA 8270D	8-22-18	8-24-18	
1,3-Dinitrobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,6-Dinitrotoluene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
1,2-Dinitrobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Acenaphthylene	0.32	0.034	EPA 8270D/SIM	8-22-18	8-24-18	
3-Nitroaniline	ND	0.86	EPA 8270D	8-22-18	8-24-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-01-5.0-082118					
Laboratory ID:	08-229-08					
2,4-Dinitrophenol	ND	4.3	EPA 8270D	8-22-18	8-24-18	
Acenaphthene	0.46	0.034	EPA 8270D/SIM	8-22-18	8-24-18	
4-Nitrophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,4-Dinitrotoluene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Dibenzofuran	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,3,5,6-Tetrachlorophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
2,3,4,6-Tetrachlorophenol	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Diethylphthalate	ND	4.3	EPA 8270D	8-22-18	8-24-18	
4-Chlorophenyl-phenylether	ND	0.86	EPA 8270D	8-22-18	8-24-18	
4-Nitroaniline	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Fluorene	0.46	0.034	EPA 8270D/SIM	8-22-18	8-24-18	
4,6-Dinitro-2-methylphenol	ND	4.3	EPA 8270D	8-22-18	8-24-18	
n-Nitrosodiphenylamine	ND	0.86	EPA 8270D	8-22-18	8-24-18	
1,2-Diphenylhydrazine	ND	0.86	EPA 8270D	8-22-18	8-24-18	
4-Bromophenyl-phenylether	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Hexachlorobenzene	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Pentachlorophenol	ND	4.3	EPA 8270D	8-22-18	8-24-18	
Phenanthrene	5.4	0.86	EPA 8270D	8-22-18	8-24-18	
Anthracene	1.0	0.86	EPA 8270D	8-22-18	8-24-18	
Carbazole	ND	0.86	EPA 8270D	8-22-18	8-24-18	
Di-n-butylphthalate	ND	4.3	EPA 8270D	8-22-18	8-24-18	
Fluoranthene	4.8	0.86	EPA 8270D	8-22-18	8-24-18	
Benzidine	ND	8.6	EPA 8270D	8-22-18	8-24-18	
Pyrene	6.8	0.86	EPA 8270D	8-22-18	8-24-18	
Butylbenzylphthalate	ND	4.3	EPA 8270D	8-22-18	8-24-18	
bis-2-Ethylhexyladipate	ND	4.3	EPA 8270D	8-22-18	8-24-18	
3,3'-Dichlorobenzidine	ND	4.3	EPA 8270D	8-22-18	8-24-18	
Benzo[a]anthracene	2.6	0.86	EPA 8270D	8-22-18	8-24-18	
Chrysene	3.1	0.86	EPA 8270D	8-22-18	8-24-18	
bis(2-Ethylhexyl)phthalate	ND	4.3	EPA 8270D	8-22-18	8-24-18	
Di-n-octylphthalate	ND	4.3	EPA 8270D	8-22-18	8-24-18	
Benzo[b]fluoranthene	2.9	0.86	EPA 8270D	8-22-18	8-24-18	
Benzo(j,k)fluoranthene	0.76	0.034	EPA 8270D/SIM	8-22-18	8-24-18	
Benzo[a]pyrene	2.5	0.86	EPA 8270D	8-22-18	8-24-18	
Indeno[1,2,3-cd]pyrene	1.6	0.86	EPA 8270D	8-22-18	8-24-18	
Dibenz[a,h]anthracene	0.45	0.034	EPA 8270D/SIM	8-22-18	8-24-18	
Benzo[g,h,i]perylene	1.9	0.86	EPA 8270D	8-22-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	52	19 - 103				
Phenol-d6	61	30 - 103				
Nitrobenzene-d5	68	27 - 105				
2-Fluorobiphenyl	88	36 - 102				
2,4,6-Tribromophenol	66	33 - 110				
Terphenyl-d14	94	38 - 108				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Pyridine	ND	0.33	EPA 8270D	8-22-18	8-22-18	
Phenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Aniline	ND	0.17	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-22-18	8-22-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Isophorone	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Carbazole	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzidine	ND	0.33	EPA 8270D	8-22-18	8-22-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	86	19 - 103				
Phenol-d6	87	30 - 103				
Nitrobenzene-d5	84	27 - 105				
2-Fluorobiphenyl	92	36 - 102				
2,4,6-Tribromophenol	99	33 - 110				
Terphenyl-d14	92	38 - 108				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0822S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	0.988	1.12	1.33	1.33	74	84	45 - 94	13	29	
2-Chlorophenol	1.05	1.21	1.33	1.33	79	91	46 - 94	14	33	
1,4-Dichlorobenzene	0.511	0.581	0.667	0.667	77	87	42 - 91	13	37	
n-Nitroso-di-n-propylamine	0.506	0.568	0.667	0.667	76	85	45 - 100	12	26	
1,2,4-Trichlorobenzene	0.559	0.579	0.667	0.667	84	87	45 - 100	4	32	
4-Chloro-3-methylphenol	1.09	1.13	1.33	1.33	82	85	55 - 97	4	21	
Acenaphthene	0.539	0.564	0.667	0.667	81	85	48 - 91	5	21	
4-Nitrophenol	1.06	1.17	1.33	1.33	80	88	53 - 102	10	20	
2,4-Dinitrotoluene	0.527	0.583	0.667	0.667	79	87	47 - 96	10	19	
Pentachlorophenol	1.34	1.40	1.33	1.33	101	105	35 - 125	4	26	
Pyrene	0.534	0.561	0.667	0.667	80	84	55 - 110	5	17	
<i>Surrogate:</i>										
2-Fluorophenol					72	81	19 - 103			
Phenol-d6					73	80	30 - 103			
Nitrobenzene-d5					72	73	27 - 105			
2-Fluorobiphenyl					79	80	36 - 102			
2,4,6-Tribromophenol					86	85	33 - 110			
Terphenyl-d14					76	78	38 - 108			



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-10.0-082118					
Laboratory ID:	08-229-03					
n-Nitrosodimethylamine	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Pyridine	ND	0.83	EPA 8270D	8-22-18	8-24-18	
Phenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Aniline	ND	0.42	EPA 8270D	8-22-18	8-24-18	
bis(2-Chloroethyl)ether	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2-Chlorophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
1,3-Dichlorobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
1,4-Dichlorobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Benzyl alcohol	ND	0.42	EPA 8270D	8-22-18	8-24-18	
1,2-Dichlorobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2-Methylphenol (o-Cresol)	ND	0.083	EPA 8270D	8-22-18	8-24-18	
bis(2-Chloroisopropyl)ether	ND	0.083	EPA 8270D	8-22-18	8-24-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.083	EPA 8270D	8-22-18	8-24-18	
n-Nitroso-di-n-propylamine	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Hexachloroethane	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Nitrobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Isophorone	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2-Nitrophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,4-Dimethylphenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
bis(2-Chloroethoxy)methane	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,4-Dichlorophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
1,2,4-Trichlorobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Naphthalene	0.12	0.083	EPA 8270D	8-22-18	8-24-18	
4-Chloroaniline	ND	0.42	EPA 8270D	8-22-18	8-24-18	
Hexachlorobutadiene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
4-Chloro-3-methylphenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2-Methylnaphthalene	0.099	0.083	EPA 8270D	8-22-18	8-24-18	
1-Methylnaphthalene	0.057	0.017	EPA 8270D/SIM	8-22-18	8-24-18	
Hexachlorocyclopentadiene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,4,6-Trichlorophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,3-Dichloroaniline	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,4,5-Trichlorophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2-Chloronaphthalene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2-Nitroaniline	ND	0.083	EPA 8270D	8-22-18	8-24-18	
1,4-Dinitrobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Dimethylphthalate	ND	0.083	EPA 8270D	8-22-18	8-24-18	
1,3-Dinitrobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,6-Dinitrotoluene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
1,2-Dinitrobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Acenaphthylene	0.045	0.017	EPA 8270D/SIM	8-22-18	8-24-18	
3-Nitroaniline	ND	0.083	EPA 8270D	8-22-18	8-24-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-10.0-082118					
Laboratory ID:	08-229-03					
2,4-Dinitrophenol	ND	0.42	EPA 8270D	8-22-18	8-24-18	
Acenaphthene	0.21	0.083	EPA 8270D	8-22-18	8-24-18	
4-Nitrophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,4-Dinitrotoluene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Dibenzofuran	0.12	0.083	EPA 8270D	8-22-18	8-24-18	
2,3,5,6-Tetrachlorophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
2,3,4,6-Tetrachlorophenol	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Diethylphthalate	ND	0.42	EPA 8270D	8-22-18	8-24-18	
4-Chlorophenyl-phenylether	ND	0.083	EPA 8270D	8-22-18	8-24-18	
4-Nitroaniline	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Fluorene	0.22	0.083	EPA 8270D	8-22-18	8-24-18	
4,6-Dinitro-2-methylphenol	ND	0.42	EPA 8270D	8-22-18	8-24-18	
n-Nitrosodiphenylamine	ND	0.083	EPA 8270D	8-22-18	8-24-18	
1,2-Diphenylhydrazine	ND	0.18	EPA 8270D	8-22-18	8-24-18	U1
4-Bromophenyl-phenylether	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Hexachlorobenzene	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Pentachlorophenol	ND	0.42	EPA 8270D	8-22-18	8-24-18	
Phenanthrene	1.0	0.083	EPA 8270D	8-22-18	8-24-18	
Anthracene	0.29	0.083	EPA 8270D	8-22-18	8-24-18	
Carbazole	ND	0.083	EPA 8270D	8-22-18	8-24-18	
Di-n-butylphthalate	ND	0.42	EPA 8270D	8-22-18	8-24-18	
Fluoranthene	0.97	0.083	EPA 8270D	8-22-18	8-24-18	
Benzidine	ND	0.83	EPA 8270D	8-22-18	8-24-18	
Pyrene	1.1	0.083	EPA 8270D	8-22-18	8-24-18	
Butylbenzylphthalate	ND	0.42	EPA 8270D	8-22-18	8-24-18	
bis-2-Ethylhexyladipate	ND	0.42	EPA 8270D	8-22-18	8-24-18	
3,3'-Dichlorobenzidine	ND	0.42	EPA 8270D	8-22-18	8-24-18	
Benzo[a]anthracene	0.67	0.083	EPA 8270D	8-22-18	8-24-18	
Chrysene	0.95	0.083	EPA 8270D	8-22-18	8-24-18	
bis(2-Ethylhexyl)phthalate	ND	0.42	EPA 8270D	8-22-18	8-24-18	
Di-n-octylphthalate	ND	0.42	EPA 8270D	8-22-18	8-24-18	
Benzo[b]fluoranthene	0.47	0.083	EPA 8270D	8-22-18	8-24-18	
Benzo(j,k)fluoranthene	0.18	0.083	EPA 8270D	8-22-18	8-24-18	
Benzo[a]pyrene	0.36	0.083	EPA 8270D	8-22-18	8-24-18	
Indeno[1,2,3-cd]pyrene	0.19	0.083	EPA 8270D	8-22-18	8-24-18	
Dibenz[a,h]anthracene	0.041	0.017	EPA 8270D/SIM	8-22-18	8-24-18	
Benzo[g,h,i]perylene	0.21	0.083	EPA 8270D	8-22-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>41</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>48</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>45</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>55</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>64</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>38 - 108</i>				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Pyridine	ND	0.33	EPA 8270D	8-22-18	8-22-18	
Phenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Aniline	ND	0.17	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-22-18	8-22-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Isophorone	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-22-18	8-22-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Carbazole	ND	0.033	EPA 8270D	8-22-18	8-22-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzidine	ND	0.33	EPA 8270D	8-22-18	8-22-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-22-18	8-22-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-22-18	8-22-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	86	19 - 103				
Phenol-d6	87	30 - 103				
Nitrobenzene-d5	84	27 - 105				
2-Fluorobiphenyl	92	36 - 102				
2,4,6-Tribromophenol	99	33 - 110				
Terphenyl-d14	92	38 - 108				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0822S1									
Phenol	0.988	1.12	1.33	1.33	74	84	45 - 94	13	29	
2-Chlorophenol	1.05	1.21	1.33	1.33	79	91	46 - 94	14	33	
1,4-Dichlorobenzene	0.511	0.581	0.667	0.667	77	87	42 - 91	13	37	
n-Nitroso-di-n-propylamine	0.506	0.568	0.667	0.667	76	85	45 - 100	12	26	
1,2,4-Trichlorobenzene	0.559	0.579	0.667	0.667	84	87	45 - 100	4	32	
4-Chloro-3-methylphenol	1.09	1.13	1.33	1.33	82	85	55 - 97	4	21	
Acenaphthene	0.539	0.564	0.667	0.667	81	85	48 - 91	5	21	
4-Nitrophenol	1.06	1.17	1.33	1.33	80	88	53 - 102	10	20	
2,4-Dinitrotoluene	0.527	0.583	0.667	0.667	79	87	47 - 96	10	19	
Pentachlorophenol	1.34	1.40	1.33	1.33	101	105	35 - 125	4	26	
Pyrene	0.534	0.561	0.667	0.667	80	84	55 - 110	5	17	
<i>Surrogate:</i>										
2-Fluorophenol					72	81	19 - 103			
Phenol-d6					73	80	30 - 103			
Nitrobenzene-d5					72	73	27 - 105			
2-Fluorobiphenyl					79	80	36 - 102			
2,4,6-Tribromophenol					86	85	33 - 110			
Terphenyl-d14					76	78	38 - 108			



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-15.0-082118					
Laboratory ID:	08-229-04					
n-Nitrosodimethylamine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.41	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.21	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.21	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Naphthalene	0.052	0.041	EPA 8270D	8-29-18	8-29-18	
4-Chloroaniline	ND	0.21	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	0.092	0.041	EPA 8270D	8-29-18	8-29-18	
1-Methylnaphthalene	0.048	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-15.0-082118					
Laboratory ID:	08-229-04					
2,4-Dinitrophenol	ND	0.21	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	0.049	0.041	EPA 8270D	8-29-18	8-29-18	
4-Nitrophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.21	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Fluorene	0.043	0.041	EPA 8270D	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.21	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	0.16	0.041	EPA 8270D	8-29-18	8-29-18	
Anthracene	0.029	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.21	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	0.078	0.041	EPA 8270D	8-29-18	8-29-18	
Benzidine	ND	0.41	EPA 8270D	8-29-18	8-29-18	
Pyrene	0.10	0.041	EPA 8270D	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.21	EPA 8270D	8-29-18	8-29-18	
bis-2-Ethylhexyladipate	ND	0.21	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.21	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	0.027	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	0.028	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.21	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.21	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	0.025	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	0.0099	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	0.027	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	0.017	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	0.018	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	70	19 - 103				
Phenol-d6	72	30 - 103				
Nitrobenzene-d5	64	27 - 105				
2-Fluorobiphenyl	70	36 - 102				
2,4,6-Tribromophenol	79	33 - 110				
Terphenyl-d14	68	38 - 108				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-01-15.0-082118					
Laboratory ID:	08-229-09					
n-Nitrosodimethylamine	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.54	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.27	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.27	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.054	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.054	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.054	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Naphthalene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	0.27	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.054	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.054	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.054	EPA 8270D	8-29-18	8-29-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-01-15.0-082118					
Laboratory ID:	08-229-09					
2,4-Dinitrophenol	ND	0.27	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.27	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.054	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Fluorene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.27	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.054	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.054	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.27	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.054	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.27	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.54	EPA 8270D	8-29-18	8-29-18	
Pyrene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.27	EPA 8270D	8-29-18	8-29-18	
bis-2-Ethylhexyladipate	ND	0.27	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.27	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.27	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.27	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.011	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>70</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>72</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>69</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>83</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>38 - 108</i>				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	79	19 - 103				
Phenol-d6	79	30 - 103				
Nitrobenzene-d5	73	27 - 105				
2-Fluorobiphenyl	75	36 - 102				
2,4,6-Tribromophenol	88	33 - 110				
Terphenyl-d14	81	38 - 108				



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	08-229-04										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	1.15	0.989	1.33	1.33	ND	86	74	37 - 94	15	27	
2-Chlorophenol	1.21	1.03	1.33	1.33	ND	91	77	37 - 95	16	32	
1,4-Dichlorobenzene	0.568	0.493	0.667	0.667	ND	85	74	23 - 97	14	37	
n-Nitroso-di-n-propylamine	0.580	0.501	0.667	0.667	ND	87	75	40 - 91	15	28	
1,2,4-Trichlorobenzene	0.563	0.505	0.667	0.667	ND	84	76	37 - 93	11	30	
4-Chloro-3-methylphenol	1.11	1.03	1.33	1.33	ND	83	77	46 - 96	7	25	
Acenaphthene	0.585	0.526	0.667	0.667	0.0395	82	73	43 - 90	11	25	
4-Nitrophenol	1.15	1.03	1.33	1.33	ND	86	77	31 - 104	11	28	
2,4-Dinitrotoluene	0.575	0.516	0.667	0.667	ND	86	77	31 - 96	11	32	
Pentachlorophenol	1.38	1.22	1.33	1.33	ND	104	92	20 - 123	12	29	
Pyrene	0.582	0.518	0.667	0.667	0.0828	75	65	28 - 114	12	35	
<i>Surrogate:</i>											
2-Fluorophenol						85	71	19 - 103			
Phenol-d6						84	73	30 - 103			
Nitrobenzene-d5						72	65	27 - 105			
2-Fluorobiphenyl						77	70	36 - 102			
2,4,6-Tribromophenol						92	84	33 - 110			
Terphenyl-d14						78	71	38 - 108			



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-04-5.0-082118					
Laboratory ID:	08-229-02					
Arsenic	ND	11	EPA 6010D	8-23-18	8-23-18	
Barium	290	5.5	EPA 6010D	8-23-18	8-23-18	
Cadmium	ND	1.1	EPA 6010D	8-23-18	8-23-18	
Chromium	53	1.1	EPA 6010D	8-23-18	8-23-18	
Lead	56	11	EPA 6010D	8-23-18	8-23-18	
Mercury	ND	0.55	EPA 7471B	8-23-18	8-23-18	
Selenium	ND	11	EPA 6010D	8-23-18	8-23-18	
Silver	ND	2.2	EPA 6010D	8-23-18	8-23-18	

Client ID:	FB-01-15.0-082118					
Laboratory ID:	08-229-09					
Arsenic	ND	16	EPA 6010D	8-23-18	8-23-18	
Barium	110	4.0	EPA 6010D	8-23-18	8-23-18	
Cadmium	ND	0.81	EPA 6010D	8-23-18	8-23-18	
Chromium	60	0.81	EPA 6010D	8-23-18	8-23-18	
Lead	ND	8.1	EPA 6010D	8-23-18	8-23-18	
Mercury	ND	0.40	EPA 7471B	8-23-18	8-23-18	
Selenium	ND	16	EPA 6010D	8-23-18	8-23-18	
Silver	ND	1.6	EPA 6010D	8-23-18	8-23-18	



Date of Report: August 30, 2018
 Samples Submitted: August 22, 2018
 Laboratory Reference: 1808-229
 Project: 397-019

**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:	MB0823SM1					
Arsenic	ND	5.0	EPA 6010D	8-23-18	8-23-18	
Barium	ND	2.5	EPA 6010D	8-23-18	8-23-18	
Cadmium	ND	0.50	EPA 6010D	8-23-18	8-23-18	
Chromium	ND	0.50	EPA 6010D	8-23-18	8-23-18	
Lead	ND	5.0	EPA 6010D	8-23-18	8-23-18	
Selenium	ND	5.0	EPA 6010D	8-23-18	8-23-18	
Silver	ND	1.0	EPA 6010D	8-23-18	8-23-18	

Laboratory ID:	MB0823S1					
Mercury	ND	0.25	EPA 7471B	8-23-18	8-23-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-239-08							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	92.2	83.3	NA	NA	NA	10	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	8.30	5.65	NA	NA	NA	38	20	K
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	08-239-08							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	08-239-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	93.1	95.5	100	100	ND	93	96	75-125	3	20
Barium	188	184	100	100	92.2	96	92	75-125	2	20
Cadmium	46.3	45.8	50.0	50.0	ND	93	92	75-125	1	20
Chromium	102	102	100	100	8.30	94	94	75-125	0	20
Lead	232	233	250	250	ND	93	93	75-125	1	20
Selenium	91.2	92.2	100	100	ND	91	92	75-125	1	20
Silver	21.8	21.9	25.0	25.0	ND	87	88	75-125	1	20

Laboratory ID:	08-239-08									
Mercury	0.555	0.554	0.500	0.500	0.00530	110	110	80-120	0	20



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

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

Date of Report: August 30, 2018
Samples Submitted: August 22, 2018
Laboratory Reference: 1808-229
Project: 397-019

% MOISTURE

Date Analyzed: 8-22&29-18

Client ID	Lab ID	% Moisture
FB-04-5.0-082118	08-229-02	54
FB-04-10.0-082118	08-229-03	60
FB-04-15.0-082118	08-229-04	19
FB-04-20.0-082118	08-229-05	14
FB-04-30.0-082118	08-229-07	15
FB-01-5.0-082118	08-229-08	22
FB-01-15.0-082118	08-229-09	38
FB-01-30.0-082118	08-229-12	13





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Laboratory Number: **08-229**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Company: **FINALION**
 Project Number: **397-019**
 Project Name: **Block 38 West Property**
 Project Manager: **Jason Ruark**
 Sampled by: **Greg Peters**

Date Sampled: **8/21/18**

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	X
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	X
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	X
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	X
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
ACU/SG	
2 DAY TAT	
3 DAY TAT	
% Moisture	X

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	FB-04-30-082118	8/21/18	0645	Soil
2	FB-04-50-082118		0650	
3	FB-04-100-082118		0710	
4	FB-04-150-082118		0735	
5	FB-04-200-082118		0745	
6	FB-04-250-082118		0815	
7	FB-04-300-082118		0850	
8	FB-04-50-082118		1140	
9	FB-01-150-082118		1420	
10	FB-01-200-082118		1446	

Signature	Company

Date	Time
8/21/18	0730

Comments/Special Instructions
 X - Added 8/22/18. DB (2-3 day TAT)
 (X) Added 8/24/18. DB (1 day TAT)
 O Added 8/27/18. DB (STA)
 ● Added 8/28/18. DB (STA)

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Reviewed/Date

Reviewed/Date

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 4, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-271

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 23, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 4, 2018
Samples Submitted: August 23, 2018
Laboratory Reference: 1808-271
Project: 397-019

Case Narrative

Samples were collected on August 22, 2018 and received by the laboratory on August 23, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-10.0-082218					
Laboratory ID:	08-271-02					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.090	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.090	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.090	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.090	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	9.0	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	57-129				
Client ID:	FMW-136-20.0-082218					
Laboratory ID:	08-271-04					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.064	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.064	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.064	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.064	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	6.4	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	57-129				
Client ID:	FMW-136-30.0-082218					
Laboratory ID:	08-271-06					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.052	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.052	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.052	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.052	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	5.2	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	57-129				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	5.0	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-271-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				94	95	57-129		

SPIKE BLANKS

Laboratory ID:	SB0824S1							
	SB	SBD	SB	SBD	SB	SBD		
Benzene	0.873	0.924	1.00	1.00	87	92	69-111	6 10
Toluene	0.863	0.912	1.00	1.00	86	91	70-114	6 11
Ethyl Benzene	0.860	0.915	1.00	1.00	86	92	70-115	6 10
m,p-Xylene	0.841	0.897	1.00	1.00	84	90	72-115	6 10
o-Xylene	0.872	0.916	1.00	1.00	87	92	71-115	5 11
<i>Surrogate:</i>								
<i>Fluorobenzene</i>					85	91	57-129	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

**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:	FMW-136-10.0-082218					
Laboratory ID:	08-271-02					
Diesel Range Organics	ND	38	NWTPH-Dx	8-24-18	8-24-18	
Lube Oil Range Organics	ND	76	NWTPH-Dx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	FMW-136-20.0-082218					
Laboratory ID:	08-271-04					
Diesel Range Organics	ND	32	NWTPH-Dx	8-24-18	8-27-18	
Lube Oil Range Organics	ND	63	NWTPH-Dx	8-24-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	66	50-150				

Client ID:	FMW-136-30.0-082218					
Laboratory ID:	08-271-06					
Diesel Range Organics	ND	30	NWTPH-Dx	8-24-18	8-24-18	
Lube Oil Range Organics	ND	59	NWTPH-Dx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

**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:	MB0824S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-24-18	8-24-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-245-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				56	90	50-150		



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-10.0-082218					
Laboratory ID:	08-271-02					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Chloromethane	ND	0.0077	EPA 8260C	8-24-18	8-24-18	
Vinyl Chloride	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Bromomethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Chloroethane	ND	0.0077	EPA 8260C	8-24-18	8-24-18	
Trichlorofluoromethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Iodomethane	ND	0.0077	EPA 8260C	8-24-18	8-24-18	
Methylene Chloride	ND	0.0077	EPA 8260C	8-24-18	8-24-18	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
2,2-Dichloropropane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Bromochloromethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Chloroform	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Carbon Tetrachloride	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloropropene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Trichloroethene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Dibromomethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Bromodichloromethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	8-24-18	8-24-18	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-10.0-082218					
Laboratory ID:	08-271-02					
1,1,2-Trichloroethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Tetrachloroethene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,3-Dichloropropane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Dibromochloromethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Chlorobenzene	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260C	8-24-18	8-24-18	
Bromoform	ND	0.0077	EPA 8260C	8-24-18	8-24-18	
Bromobenzene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
1,1,2,2-Tetrachloroethane	ND	0.093	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichloropropane	ND	0.093	EPA 8260C	8-24-18	8-24-18	
2-Chlorotoluene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
4-Chlorotoluene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
1,3-Dichlorobenzene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
1,4-Dichlorobenzene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
1,2-Dichlorobenzene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromo-3-chloropropane	ND	0.46	EPA 8260C	8-24-18	8-24-18	
1,2,4-Trichlorobenzene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
Hexachlorobutadiene	ND	0.46	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichlorobenzene	ND	0.093	EPA 8260C	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	68-139				
<i>Toluene-d8</i>	98	79-128				
<i>4-Bromofluorobenzene</i>	83	71-132				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-20.0-082218					
Laboratory ID:	08-271-04					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Chloromethane	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Bromomethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Chloroethane	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Iodomethane	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
Methylene Chloride	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Bromochloromethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Chloroform	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Trichloroethene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Dibromomethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-20.0-082218					
Laboratory ID:	08-271-04					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Chlorobenzene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Bromoform	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
Bromobenzene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-132</i>				



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 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0824S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chloromethane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromomethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chloroethane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Iodomethane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Methylene Chloride	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromochloromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chloroform	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Trichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Dibromomethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	



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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0824S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromoform	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Bromobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-132</i>				



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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0824S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0480	0.0510	0.0500	0.0500	96	102	53-141	6	17	
Benzene	0.0481	0.0509	0.0500	0.0500	96	102	70-130	6	15	
Trichloroethene	0.0506	0.0520	0.0500	0.0500	101	104	74-122	3	16	
Toluene	0.0513	0.0551	0.0500	0.0500	103	110	76-130	7	15	
Chlorobenzene	0.0488	0.0506	0.0500	0.0500	98	101	75-120	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					98	94	68-139			
Toluene-d8					101	103	79-128			
4-Bromofluorobenzene					98	98	71-132			



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 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-20.0-082218					
Laboratory ID:	08-271-04					
n-Nitrosodimethylamine	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Pyridine	ND	0.42	EPA 8270D	8-27-18	8-30-18	
Phenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Aniline	ND	0.21	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2-Chlorophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
1,3-Dichlorobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
1,4-Dichlorobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Benzyl alcohol	ND	0.21	EPA 8270D	8-27-18	8-30-18	
1,2-Dichlorobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.042	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.042	EPA 8270D	8-27-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.042	EPA 8270D	8-27-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Hexachloroethane	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Nitrobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Isophorone	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2-Nitrophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,4-Dimethylphenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,4-Dichlorophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Naphthalene	0.030	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
4-Chloroaniline	ND	0.21	EPA 8270D	8-27-18	8-30-18	
Hexachlorobutadiene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
1-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Hexachlorocyclopentadiene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,3-Dichloroaniline	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2-Chloronaphthalene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2-Nitroaniline	ND	0.042	EPA 8270D	8-27-18	8-30-18	
1,4-Dinitrobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Dimethylphthalate	ND	0.042	EPA 8270D	8-27-18	8-30-18	
1,3-Dinitrobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,6-Dinitrotoluene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
1,2-Dinitrobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Acenaphthylene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
3-Nitroaniline	ND	0.042	EPA 8270D	8-27-18	8-30-18	



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-20.0-082218					
Laboratory ID:	08-271-04					
2,4-Dinitrophenol	ND	0.21	EPA 8270D	8-27-18	8-30-18	
Acenaphthene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
4-Nitrophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,4-Dinitrotoluene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Dibenzofuran	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Diethylphthalate	ND	0.21	EPA 8270D	8-27-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.042	EPA 8270D	8-27-18	8-30-18	
4-Nitroaniline	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Fluorene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270D	8-27-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.042	EPA 8270D	8-27-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.042	EPA 8270D	8-27-18	8-30-18	
4-Bromophenyl-phenylether	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Hexachlorobenzene	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Pentachlorophenol	ND	0.21	EPA 8270D	8-27-18	8-30-18	
Phenanthrene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Anthracene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Carbazole	ND	0.042	EPA 8270D	8-27-18	8-30-18	
Di-n-butylphthalate	ND	0.21	EPA 8270D	8-27-18	8-30-18	
Fluoranthene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Benzidine	ND	0.42	EPA 8270D	8-27-18	8-30-18	
Pyrene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Butylbenzylphthalate	ND	0.21	EPA 8270D	8-27-18	8-30-18	
bis-2-Ethylhexyladipate	ND	0.21	EPA 8270D	8-27-18	8-30-18	
3,3'-Dichlorobenzidine	ND	0.21	EPA 8270D	8-27-18	8-30-18	
Benzo[a]anthracene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Chrysene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
bis(2-Ethylhexyl)phthalate	ND	0.21	EPA 8270D	8-27-18	8-30-18	
Di-n-octylphthalate	ND	0.21	EPA 8270D	8-27-18	8-30-18	
Benzo[b]fluoranthene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo(j,k)fluoranthene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[a]pyrene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Indeno[1,2,3-cd]pyrene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Dibenz[a,h]anthracene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[g,h,i]perylene	ND	0.0084	EPA 8270D/SIM	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>67</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>68</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>62</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>78</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>72</i>	<i>38 - 108</i>				



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**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Pyridine	ND	0.33	EPA 8270D	8-27-18	8-28-18	
Phenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Aniline	ND	0.17	EPA 8270D	8-27-18	8-28-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-27-18	8-28-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-27-18	8-28-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Isophorone	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	



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**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Carbazole	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzidine	ND	0.33	EPA 8270D	8-27-18	8-28-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	79	19 - 103				
Phenol-d6	82	30 - 103				
Nitrobenzene-d5	78	27 - 105				
2-Fluorobiphenyl	83	36 - 102				
2,4,6-Tribromophenol	94	33 - 110				
Terphenyl-d14	84	38 - 108				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	08-245-02										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	1.14	1.11	1.33	1.33	ND	86	83	37 - 94	3	27	
2-Chlorophenol	1.15	1.12	1.33	1.33	ND	86	84	37 - 95	3	32	
1,4-Dichlorobenzene	0.550	0.554	0.667	0.667	ND	82	83	23 - 97	1	37	
n-Nitroso-di-n-propylamine	0.562	0.552	0.667	0.667	ND	84	83	40 - 91	2	28	
1,2,4-Trichlorobenzene	0.586	0.564	0.667	0.667	ND	88	85	37 - 93	4	30	
4-Chloro-3-methylphenol	1.15	1.11	1.33	1.33	ND	86	83	46 - 96	4	25	
Acenaphthene	0.581	0.573	0.667	0.667	ND	87	86	43 - 90	1	25	
4-Nitrophenol	1.15	1.18	1.33	1.33	ND	86	89	31 - 104	3	28	
2,4-Dinitrotoluene	0.607	0.576	0.667	0.667	ND	91	86	31 - 96	5	32	
Pentachlorophenol	1.34	1.36	1.33	1.33	ND	101	102	20 - 123	1	29	
Pyrene	0.590	0.590	0.667	0.667	ND	88	88	28 - 114	0	35	
<i>Surrogate:</i>											
2-Fluorophenol						80	81	19 - 103			
Phenol-d6						83	82	30 - 103			
Nitrobenzene-d5						74	73	27 - 105			
2-Fluorobiphenyl						78	79	36 - 102			
2,4,6-Tribromophenol						91	92	33 - 110			
Terphenyl-d14						80	80	38 - 108			



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-20.0-082218					
Laboratory ID:	08-271-04					
Arsenic	ND	13	EPA 6010D	8-28-18	8-30-18	
Barium	46	3.2	EPA 6010D	8-28-18	8-30-18	
Cadmium	ND	0.63	EPA 6010D	8-28-18	8-30-18	
Chromium	42	0.63	EPA 6010D	8-28-18	8-30-18	
Lead	ND	6.3	EPA 6010D	8-28-18	8-30-18	
Mercury	ND	0.32	EPA 7471B	8-27-18	8-27-18	
Selenium	ND	13	EPA 6010D	8-28-18	8-30-18	
Silver	ND	1.3	EPA 6010D	8-28-18	8-30-18	

Client ID:	FMW-136-30.0-082218					
Laboratory ID:	08-271-06					
Arsenic	ND	12	EPA 6010D	8-28-18	8-30-18	
Barium	45	3.0	EPA 6010D	8-28-18	8-30-18	
Cadmium	ND	0.59	EPA 6010D	8-28-18	8-30-18	
Chromium	41	0.59	EPA 6010D	8-28-18	8-30-18	
Lead	ND	5.9	EPA 6010D	8-28-18	8-30-18	
Mercury	ND	0.30	EPA 7471B	8-27-18	8-27-18	
Selenium	ND	12	EPA 6010D	8-28-18	8-30-18	
Silver	ND	1.2	EPA 6010D	8-28-18	8-30-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Laboratory ID:	MB0828SM1					
Arsenic	ND	10	EPA 6010D	8-28-18	8-30-18	
Cadmium	ND	0.50	EPA 6010D	8-28-18	8-30-18	
Chromium	ND	0.50	EPA 6010D	8-28-18	8-30-18	
Lead	ND	5.0	EPA 6010D	8-28-18	8-30-18	
Selenium	ND	10	EPA 6010D	8-28-18	8-30-18	
Silver	ND	1.0	EPA 6010D	8-28-18	8-30-18	
<hr/>						
Laboratory ID:	MB0827S1					
Mercury	ND	0.25	EPA 7471B	8-27-18	8-27-18	
<hr/>						
Laboratory ID:	MB0828SM3					
Barium	ND	2.5	EPA 6010D	8-28-18	8-30-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-271
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-245-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	35.3	42.0	NA	NA	NA	17	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	
Laboratory ID:	08-245-05							
Mercury	ND	ND	NA	NA	NA	NA	20	
Laboratory ID:	08-245-01							
	ORIG	DUP						
Barium	69.6	60.3	NA	NA	NA	14	20	
MATRIX SPIKES								
Laboratory ID:	08-245-01							
	MS	MSD	MS	MSD	MS	MSD		
Arsenic	95.8	96.1	100	100	ND	96 96	75-125	0 20
Cadmium	46.4	47.9	50.0	50.0	ND	93 96	75-125	3 20
Chromium	133	141	100	100	35.3	98 106	75-125	6 20
Lead	243	250	250	250	ND	97 100	75-125	3 20
Selenium	93.1	96.9	100	100	ND	93 97	75-125	4 20
Silver	22.4	22.6	25.0	25.0	ND	90 90	75-125	1 20
Laboratory ID:	08-245-05							
Mercury	0.529	0.523	0.500	0.500	0.0116	103 102	80-120	1 20
Laboratory ID:	08-245-01							
	MS	MSD	MS	MSD	MS	MSD		
Barium	186	183	100	100	69.6	116 113	75-125	2 20



Date of Report: September 4, 2018
Samples Submitted: August 23, 2018
Laboratory Reference: 1808-271
Project: 397-019

% MOISTURE

Date Analyzed: 8-24-18

Client ID	Lab ID	% Moisture
FMW-136-10.0-082218	08-271-02	34
FMW-136-20.0-082218	08-271-04	21
FMW-136-30.0-082218	08-271-06	15





Data Qualifiers and Abbreviations

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





MVA Onsite Environmental Inc.

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

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-271**

08-271

Company: Farellon

Project Number: 397-019

Project Name: Block 38 West Projects

Project Manager: Javon Ruark

Sampled by: Bres Peters

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FMW-136-5.0-082218	8/22/18	1315	Soil	5
2	FMW-136-10.0-082218		1320		
3	FMW-136-15.0-082218		1330		
4	FMW-136-20.0-082218		1345		
5	FMW-136-25.0-082218		1355		
6	FMW-136-30.0-082218		1400		

Date	Time	Comments/Special Instructions
8/22/18	1915	Please Contact Project Manager for sample analysis and turn around time. X X - Added 8-24-18 VL (STA)
8/23/18	1417	

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Farellon</u>	<u>8/22/18</u>	<u>1915</u>	Please Contact Project Manager for sample analysis and turn around time. X X - Added 8-24-18 VL (STA)
<u>[Signature]</u>	<u>OSE</u>	<u>8/23/18</u>	<u>1417</u>	

Received _____

Relinquished _____

Received _____

Relinquished _____

Reviewed/Date _____

Reviewed/Date _____

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 4, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-272

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 23, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 4, 2018
Samples Submitted: August 23, 2018
Laboratory Reference: 1808-272
Project: 397-019

Case Narrative

Samples were collected on August 22, 2018 and received by the laboratory on August 23, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH Gx/BTEX (soil) Analysis

The chromatogram for sample FB-06-2.5-082218 is not similar to a typical gas.

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



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-06-2.5-082218					
Laboratory ID:	08-272-01					
Benzene	ND	0.024	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.12	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.12	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.12	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.12	EPA 8021B	8-24-18	8-24-18	
Gasoline	17	12	NWTPH-Gx	8-24-18	8-24-18	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	57-129				
Client ID:	FB-06-20.0-082218					
Laboratory ID:	08-272-04					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.053	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.053	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.053	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.053	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	5.3	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	57-129				
Client ID:	FB-05-5.0-082218					
Laboratory ID:	08-272-06					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.054	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.054	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.054	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.054	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	5.4	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	57-129				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-20.0-082218					
Laboratory ID:	08-272-09					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.055	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.055	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.055	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.055	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	5.5	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	57-129				
Client ID:	FB-05-35.0-082218					
Laboratory ID:	08-272-12					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.058	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.058	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.058	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.058	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	5.8	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	57-129				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
Benzene	ND	0.020	EPA 8021B	8-24-18	8-24-18	
Toluene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
Ethyl Benzene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
m,p-Xylene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
o-Xylene	ND	0.050	EPA 8021B	8-24-18	8-24-18	
Gasoline	ND	5.0	NWTPH-Gx	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-271-02							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				94	95	57-129		

SPIKE BLANKS

Laboratory ID:	SB0824S1							
	SB	SBD	SB	SBD	SB	SBD		
Benzene	0.873	0.924	1.00	1.00	87	92	69-111	6 10
Toluene	0.863	0.912	1.00	1.00	86	91	70-114	6 11
Ethyl Benzene	0.860	0.915	1.00	1.00	86	92	70-115	6 10
m,p-Xylene	0.841	0.897	1.00	1.00	84	90	72-115	6 10
o-Xylene	0.872	0.916	1.00	1.00	87	92	71-115	5 11
<i>Surrogate:</i>								
<i>Fluorobenzene</i>					85	91	57-129	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-082218					
Laboratory ID:	08-272-14					
Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	100	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	66-117				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827W2					
Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	1.0	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	100	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-276-03							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				101	93	66-117		

MATRIX SPIKES

Laboratory ID:	08-276-03									
	MS	MSD	MS	MSD		MS	MSD			
Benzene	53.6	51.8	50.0	50.0	ND	107	104	82-122	3	11
Toluene	52.2	50.4	50.0	50.0	ND	104	101	83-123	4	12
Ethyl Benzene	52.3	50.6	50.0	50.0	ND	105	101	83-123	3	12
m,p-Xylene	51.7	50.2	50.0	50.0	ND	103	100	83-123	3	12
o-Xylene	52.3	51.0	50.0	50.0	ND	105	102	83-123	3	11
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						103	104	66-117		



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 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**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:	FB-06-2.5-082218					
Laboratory ID:	08-272-01					
Diesel Range Organics	180	43	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	310	87	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				
Client ID:	FB-06-20.0-082218					
Laboratory ID:	08-272-04					
Diesel Range Organics	ND	30	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	117	50-150				
Client ID:	FB-05-5.0-082218					
Laboratory ID:	08-272-06					
Diesel Range Organics	ND	31	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	131	50-150				
Client ID:	FB-05-20.0-082218					
Laboratory ID:	08-272-09					
Diesel Range Organics	ND	31	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	56	50-150				
Client ID:	FB-05-35.0-082218					
Laboratory ID:	08-272-12					
Diesel Range Organics	ND	31	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	ND	62	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				



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**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:	MB0827S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-272-01							
	ORIG	DUP						
Diesel Range Organics	101	73.8	NA	NA	NA	NA	31	NA
Lube Oil Range Organics	177	148	NA	NA	NA	NA	18	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				88	102	50-150		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-082218					
Laboratory ID:	08-272-14					
Diesel Range Organics	ND	0.26	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	8-27-18	8-27-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-270-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range Organics	0.687	0.476	NA	NA	NA	NA	36	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			88	82	50-150			



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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-20.0-082218					
Laboratory ID:	08-272-09					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Chloromethane	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Bromomethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Chloroethane	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Iodomethane	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
Methylene Chloride	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Bromochloromethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Chloroform	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Trichloroethene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Dibromomethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-20.0-082218					
Laboratory ID:	08-272-09					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Chlorobenzene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Bromoform	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
Bromobenzene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-132</i>				



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METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0824S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chloromethane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromomethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chloroethane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Iodomethane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Methylene Chloride	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromochloromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chloroform	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Trichloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Dibromomethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	



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METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0824S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Chlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Bromoform	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
Bromobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-24-18	8-24-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-24-18	8-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-132</i>				



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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0824S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0480	0.0510	0.0500	0.0500	96	102	53-141	6	17	
Benzene	0.0481	0.0509	0.0500	0.0500	96	102	70-130	6	15	
Trichloroethene	0.0506	0.0520	0.0500	0.0500	101	104	74-122	3	16	
Toluene	0.0513	0.0551	0.0500	0.0500	103	110	76-130	7	15	
Chlorobenzene	0.0488	0.0506	0.0500	0.0500	98	101	75-120	4	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	94	68-139			
<i>Toluene-d8</i>					101	103	79-128			
<i>4-Bromofluorobenzene</i>					98	98	71-132			



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-082218					
Laboratory ID:	08-272-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloromethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Vinyl Chloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromomethane	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Chloroethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Iodomethane	ND	5.0	EPA 8260C	8-29-18	8-29-18	
Methylene Chloride	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloroform	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Trichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Dibromomethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromodichloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-082218					
Laboratory ID:	08-272-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Tetrachloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Dibromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromoform	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Bromobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloromethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Vinyl Chloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromomethane	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Chloroethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Iodomethane	ND	5.0	EPA 8260C	8-29-18	8-29-18	
Methylene Chloride	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloroform	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Trichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Dibromomethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromodichloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	



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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0829W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Tetrachloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Dibromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromoform	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Bromobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0829W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.6	10.0	10.0	10.0	106	100	62-129	6	15	
Benzene	11.1	10.5	10.0	10.0	111	105	77-127	6	15	
Trichloroethene	10.7	9.96	10.0	10.0	107	100	70-120	7	15	
Toluene	11.1	10.5	10.0	10.0	111	105	82-123	6	15	
Chlorobenzene	10.5	9.70	10.0	10.0	105	97	79-120	8	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>85</i>	<i>89</i>	<i>75-127</i>			
<i>Toluene-d8</i>					<i>88</i>	<i>89</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>93</i>	<i>94</i>	<i>78-125</i>			



Date of Report: September 4, 2018
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 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-06-2.5-082218					
Laboratory ID:	08-272-01					
n-Nitrosodimethylamine	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Pyridine	ND	0.58	EPA 8270D	8-27-18	8-30-18	
Phenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Aniline	ND	0.29	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2-Chlorophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
1,3-Dichlorobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
1,4-Dichlorobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Benzyl alcohol	ND	0.29	EPA 8270D	8-27-18	8-30-18	
1,2-Dichlorobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.058	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.058	EPA 8270D	8-27-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.058	EPA 8270D	8-27-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Hexachloroethane	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Nitrobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Isophorone	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2-Nitrophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,4-Dimethylphenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,4-Dichlorophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Naphthalene	0.087	0.058	EPA 8270D	8-27-18	8-30-18	
4-Chloroaniline	ND	0.29	EPA 8270D	8-27-18	8-30-18	
Hexachlorobutadiene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2-Methylnaphthalene	0.045	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
1-Methylnaphthalene	0.044	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
Hexachlorocyclopentadiene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,3-Dichloroaniline	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2-Chloronaphthalene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2-Nitroaniline	ND	0.058	EPA 8270D	8-27-18	8-30-18	
1,4-Dinitrobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Dimethylphthalate	ND	0.058	EPA 8270D	8-27-18	8-30-18	
1,3-Dinitrobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,6-Dinitrotoluene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
1,2-Dinitrobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Acenaphthylene	0.042	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
3-Nitroaniline	ND	0.058	EPA 8270D	8-27-18	8-30-18	



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-06-2.5-082218					
Laboratory ID:	08-272-01					
2,4-Dinitrophenol	ND	0.29	EPA 8270D	8-27-18	8-30-18	
Acenaphthene	0.13	0.058	EPA 8270D	8-27-18	8-30-18	
4-Nitrophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,4-Dinitrotoluene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Dibenzofuran	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Diethylphthalate	ND	0.29	EPA 8270D	8-27-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.058	EPA 8270D	8-27-18	8-30-18	
4-Nitroaniline	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Fluorene	0.094	0.058	EPA 8270D	8-27-18	8-30-18	
4,6-Dinitro-2-methylphenol	ND	0.29	EPA 8270D	8-27-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.058	EPA 8270D	8-27-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.16	EPA 8270D	8-27-18	8-30-18	U1
4-Bromophenyl-phenylether	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Hexachlorobenzene	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Pentachlorophenol	ND	0.29	EPA 8270D	8-27-18	8-30-18	
Phenanthrene	0.89	0.058	EPA 8270D	8-27-18	8-30-18	
Anthracene	0.20	0.058	EPA 8270D	8-27-18	8-30-18	
Carbazole	ND	0.058	EPA 8270D	8-27-18	8-30-18	
Di-n-butylphthalate	ND	0.29	EPA 8270D	8-27-18	8-30-18	
Fluoranthene	0.81	0.058	EPA 8270D	8-27-18	8-30-18	
Benzidine	ND	0.58	EPA 8270D	8-27-18	8-30-18	
Pyrene	1.1	0.058	EPA 8270D	8-27-18	8-30-18	
Butylbenzylphthalate	ND	0.29	EPA 8270D	8-27-18	8-30-18	
bis-2-Ethylhexyladipate	ND	0.29	EPA 8270D	8-27-18	8-30-18	
3,3'-Dichlorobenzidine	ND	0.29	EPA 8270D	8-27-18	8-30-18	
Benzo[a]anthracene	0.47	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
Chrysene	0.50	0.058	EPA 8270D	8-27-18	8-30-18	
bis(2-Ethylhexyl)phthalate	ND	0.29	EPA 8270D	8-27-18	8-30-18	
Di-n-octylphthalate	ND	0.29	EPA 8270D	8-27-18	8-30-18	
Benzo[b]fluoranthene	0.52	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo(j,k)fluoranthene	0.17	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[a]pyrene	0.49	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
Indeno[1,2,3-cd]pyrene	0.34	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
Dibenz[a,h]anthracene	0.054	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[g,h,i]perylene	0.35	0.012	EPA 8270D/SIM	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	65	19 - 103				
Phenol-d6	65	30 - 103				
Nitrobenzene-d5	63	27 - 105				
2-Fluorobiphenyl	76	36 - 102				
2,4,6-Tribromophenol	80	33 - 110				
Terphenyl-d14	83	38 - 108				



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-06-20.0-082218					
Laboratory ID:	08-272-04					
n-Nitrosodimethylamine	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Pyridine	ND	0.40	EPA 8270D	8-27-18	8-30-18	
Phenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Aniline	ND	0.20	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2-Chlorophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
1,3-Dichlorobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
1,4-Dichlorobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Benzyl alcohol	ND	0.20	EPA 8270D	8-27-18	8-30-18	
1,2-Dichlorobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270D	8-27-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270D	8-27-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Hexachloroethane	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Nitrobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Isophorone	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2-Nitrophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,4-Dimethylphenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,4-Dichlorophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Naphthalene	0.070	0.040	EPA 8270D	8-27-18	8-30-18	
4-Chloroaniline	ND	0.20	EPA 8270D	8-27-18	8-30-18	
Hexachlorobutadiene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
1-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,3-Dichloroaniline	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2-Chloronaphthalene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2-Nitroaniline	ND	0.040	EPA 8270D	8-27-18	8-30-18	
1,4-Dinitrobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Dimethylphthalate	ND	0.040	EPA 8270D	8-27-18	8-30-18	
1,3-Dinitrobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,6-Dinitrotoluene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
1,2-Dinitrobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Acenaphthylene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
3-Nitroaniline	ND	0.040	EPA 8270D	8-27-18	8-30-18	



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-06-20.0-082218					
Laboratory ID:	08-272-04					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	8-27-18	8-30-18	
Acenaphthene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
4-Nitrophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,4-Dinitrotoluene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Dibenzofuran	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Diethylphthalate	ND	0.20	EPA 8270D	8-27-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270D	8-27-18	8-30-18	
4-Nitroaniline	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Fluorene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	8-27-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270D	8-27-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270D	8-27-18	8-30-18	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Hexachlorobenzene	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Pentachlorophenol	ND	0.20	EPA 8270D	8-27-18	8-30-18	
Phenanthrene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Anthracene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Carbazole	ND	0.040	EPA 8270D	8-27-18	8-30-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	8-27-18	8-30-18	
Fluoranthene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Benzidine	ND	0.40	EPA 8270D	8-27-18	8-30-18	
Pyrene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	8-27-18	8-30-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	8-27-18	8-30-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	8-27-18	8-30-18	
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Chrysene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	8-27-18	8-30-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	8-27-18	8-30-18	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Indeno[1,2,3-cd]pyrene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[g,h,i]perylene	ND	0.0081	EPA 8270D/SIM	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>70</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>71</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>64</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>80</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>38 - 108</i>				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-15.0-082218					
Laboratory ID:	08-272-08					
n-Nitrosodimethylamine	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Pyridine	ND	0.45	EPA 8270D	8-27-18	8-30-18	
Phenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Aniline	ND	0.22	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2-Chlorophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
1,3-Dichlorobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
1,4-Dichlorobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Benzyl alcohol	ND	0.22	EPA 8270D	8-27-18	8-30-18	
1,2-Dichlorobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.045	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.045	EPA 8270D	8-27-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.045	EPA 8270D	8-27-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Hexachloroethane	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Nitrobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Isophorone	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2-Nitrophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,4-Dimethylphenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,4-Dichlorophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Naphthalene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
4-Chloroaniline	ND	0.22	EPA 8270D	8-27-18	8-30-18	
Hexachlorobutadiene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2-Methylnaphthalene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
1-Methylnaphthalene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Hexachlorocyclopentadiene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,3-Dichloroaniline	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2-Chloronaphthalene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2-Nitroaniline	ND	0.045	EPA 8270D	8-27-18	8-30-18	
1,4-Dinitrobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Dimethylphthalate	ND	0.045	EPA 8270D	8-27-18	8-30-18	
1,3-Dinitrobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,6-Dinitrotoluene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
1,2-Dinitrobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Acenaphthylene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
3-Nitroaniline	ND	0.045	EPA 8270D	8-27-18	8-30-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-15.0-082218					
Laboratory ID:	08-272-08					
2,4-Dinitrophenol	ND	0.22	EPA 8270D	8-27-18	8-30-18	
Acenaphthene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
4-Nitrophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,4-Dinitrotoluene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Dibenzofuran	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Diethylphthalate	ND	0.22	EPA 8270D	8-27-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.045	EPA 8270D	8-27-18	8-30-18	
4-Nitroaniline	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Fluorene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
4,6-Dinitro-2-methylphenol	ND	0.22	EPA 8270D	8-27-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.045	EPA 8270D	8-27-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.045	EPA 8270D	8-27-18	8-30-18	
4-Bromophenyl-phenylether	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Hexachlorobenzene	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Pentachlorophenol	ND	0.22	EPA 8270D	8-27-18	8-30-18	
Phenanthrene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Anthracene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Carbazole	ND	0.045	EPA 8270D	8-27-18	8-30-18	
Di-n-butylphthalate	ND	0.22	EPA 8270D	8-27-18	8-30-18	
Fluoranthene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Benzidine	ND	0.45	EPA 8270D	8-27-18	8-30-18	
Pyrene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Butylbenzylphthalate	ND	0.22	EPA 8270D	8-27-18	8-30-18	
bis-2-Ethylhexyladipate	ND	0.22	EPA 8270D	8-27-18	8-30-18	
3,3'-Dichlorobenzidine	ND	0.22	EPA 8270D	8-27-18	8-30-18	
Benzo[a]anthracene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Chrysene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
bis(2-Ethylhexyl)phthalate	ND	0.22	EPA 8270D	8-27-18	8-30-18	
Di-n-octylphthalate	ND	0.22	EPA 8270D	8-27-18	8-30-18	
Benzo[b]fluoranthene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo(j,k)fluoranthene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[a]pyrene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Indeno[1,2,3-cd]pyrene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Dibenz[a,h]anthracene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[g,h,i]perylene	ND	0.0089	EPA 8270D/SIM	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>60</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>61</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>57</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>78</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>76</i>	<i>38 - 108</i>				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Pyridine	ND	0.33	EPA 8270D	8-27-18	8-28-18	
Phenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Aniline	ND	0.17	EPA 8270D	8-27-18	8-28-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-27-18	8-28-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-27-18	8-28-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Isophorone	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-27-18	8-28-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Carbazole	ND	0.033	EPA 8270D	8-27-18	8-28-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzidine	ND	0.33	EPA 8270D	8-27-18	8-28-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-27-18	8-28-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	79	19 - 103				
Phenol-d6	82	30 - 103				
Nitrobenzene-d5	78	27 - 105				
2-Fluorobiphenyl	83	36 - 102				
2,4,6-Tribromophenol	94	33 - 110				
Terphenyl-d14	84	38 - 108				



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Recovery	Limits	Limit		
MATRIX SPIKES											
Laboratory ID:	08-245-02										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	1.14	1.11	1.33	1.33	ND	86	83	37 - 94	3	27	
2-Chlorophenol	1.15	1.12	1.33	1.33	ND	86	84	37 - 95	3	32	
1,4-Dichlorobenzene	0.550	0.554	0.667	0.667	ND	82	83	23 - 97	1	37	
n-Nitroso-di-n-propylamine	0.562	0.552	0.667	0.667	ND	84	83	40 - 91	2	28	
1,2,4-Trichlorobenzene	0.586	0.564	0.667	0.667	ND	88	85	37 - 93	4	30	
4-Chloro-3-methylphenol	1.15	1.11	1.33	1.33	ND	86	83	46 - 96	4	25	
Acenaphthene	0.581	0.573	0.667	0.667	ND	87	86	43 - 90	1	25	
4-Nitrophenol	1.15	1.18	1.33	1.33	ND	86	89	31 - 104	3	28	
2,4-Dinitrotoluene	0.607	0.576	0.667	0.667	ND	91	86	31 - 96	5	32	
Pentachlorophenol	1.34	1.36	1.33	1.33	ND	101	102	20 - 123	1	29	
Pyrene	0.590	0.590	0.667	0.667	ND	88	88	28 - 114	0	35	
<i>Surrogate:</i>											
2-Fluorophenol						80	81	19 - 103			
Phenol-d6						83	82	30 - 103			
Nitrobenzene-d5						74	73	27 - 105			
2-Fluorobiphenyl						78	79	36 - 102			
2,4,6-Tribromophenol						91	92	33 - 110			
Terphenyl-d14						80	80	38 - 108			



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-05-35.0-082218					
Laboratory ID:	08-272-12					
Arsenic	ND	12	EPA 6010D	8-28-18	8-30-18	
Barium	58	3.1	EPA 6010D	8-28-18	8-30-18	
Cadmium	ND	0.62	EPA 6010D	8-28-18	8-30-18	
Chromium	38	0.62	EPA 6010D	8-28-18	8-30-18	
Lead	ND	6.2	EPA 6010D	8-28-18	8-30-18	
Mercury	ND	0.31	EPA 7471B	8-27-18	8-27-18	
Selenium	ND	12	EPA 6010D	8-28-18	8-30-18	
Silver	ND	1.2	EPA 6010D	8-28-18	8-30-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0828SM1						
Arsenic	ND	10	EPA 6010D	8-28-18	8-30-18	
Cadmium	ND	0.50	EPA 6010D	8-28-18	8-30-18	
Chromium	ND	0.50	EPA 6010D	8-28-18	8-30-18	
Lead	ND	5.0	EPA 6010D	8-28-18	8-30-18	
Selenium	ND	10	EPA 6010D	8-28-18	8-30-18	
Silver	ND	1.0	EPA 6010D	8-28-18	8-30-18	
Laboratory ID: MB0827S1						
Mercury	ND	0.25	EPA 7471B	8-27-18	8-27-18	
Laboratory ID: MB0828SM3						
Barium	ND	2.5	EPA 6010D	8-28-18	8-30-18	



Date of Report: September 4, 2018
 Samples Submitted: August 23, 2018
 Laboratory Reference: 1808-272
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-245-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	35.3	42.0	NA	NA	NA	17	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	08-245-05							
Mercury	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	08-245-01							
	ORIG	DUP						
Barium	69.6	60.3	NA	NA	NA	14	20	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES								
Laboratory ID:	08-245-01							
	MS	MSD	MS	MSD	MS	MSD		
Arsenic	95.8	96.1	100	100	ND	96	96	75-125
Cadmium	46.4	47.9	50.0	50.0	ND	93	96	75-125
Chromium	133	141	100	100	35.3	98	106	75-125
Lead	243	250	250	250	ND	97	100	75-125
Selenium	93.1	96.9	100	100	ND	93	97	75-125
Silver	22.4	22.6	25.0	25.0	ND	90	90	75-125

Laboratory ID:	08-245-05							
Mercury	0.529	0.523	0.500	0.500	0.0116	103	102	80-120

Laboratory ID:	08-245-01							
	MS	MSD	MS	MSD	MS	MSD		
Barium	186	183	100	100	69.6	116	113	75-125



Date of Report: September 4, 2018
Samples Submitted: August 23, 2018
Laboratory Reference: 1808-272
Project: 397-019

% MOISTURE

Date Analyzed: 8-24&27-18

Client ID	Lab ID	% Moisture
FB-06-2.5-082218	08-272-01	42
FB-06-20.0-082218	08-272-04	18
FB-05-5.0-082218	08-272-06	18
FB-05-15.0-082218	08-272-08	25
FB-05-20.0-082218	08-272-09	18
FB-05-35.0-082218	08-272-12	19





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request
 (in Working days)

(Check One)

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

Laboratory Number:

08-272

Company: Forest Law
 Project Number: 397-019
 Project Name: Block 38 West Property
 Project Manager: Tyvon Newark
 Sampled by: Greg Peters

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	FB-06-2.5-082218	8/22/18	0610	Soil
2	FB-06-10.0-082218		0640	
3	FB-06-15.0-082218		0655	
4	FB-06-20.0-082218		0710	
5	FB-06-25.0-082218		0730	
6	FB-05-5.0-082218		0840	
7	FB-05-10.0-082218		0855	
8	FB-05-15.0-082218		0910	
9	FB-05-20.0-082218		0930	
10	FB-05-25.0-082218		1110	

Number of Containers
NWTPH-HCID
NWTPH-Gx/BTEX
NWTPH-Gx
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)
Volatiles 8260C
Halogenated Volatiles 8260C
EDB EPA 8011 (Waters Only)
Semivolatiles 8270D/SIM (with low-level PAHs)
PAHs 8270D/SIM (low-level)
PCBs 8082A
Organochlorine Pesticides 8081B
Organophosphorus Pesticides 8270D/SIM
Chlorinated Acid Herbicides 8151A
Total RCRA Metals
Total MTCA Metals
TCLP Metals
HEM (oil and grease) 1664A
% Moisture

Company	Date	Time
Forest Law	8/22/18	1850
OSB	8/23/18	1417

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Forest Law	8/22/18	1850	Please Contact Project Manager for Analyses and Turnaround time for each sample.
<i>[Signature]</i>	OSB	8/23/18	1417	

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



MVA Onsite Environmental Inc.

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

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

08-272

Company: _____

Project Number: _____

Project Name: _____

Project Manager: _____

Sampled by: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	FG-05-30.0-082218	8/22/18	1120	Soil S
12	FG-05-35.0-082218		1130	Soil S
13	FG-05-40.0-082218		1140	Soil S
14	FG-05-082218		0950	Water 12

Number of Containers

Container Type	11	12	13	14
NWTPH-HCID				
NWTPH-Gx/BTEX	X			
NWTPH-Gx				
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	X			
Volatiles 8260C				
Halogenated Volatiles 8260C			X	
EDB EPA 8011 (Waters Only)				
Semivolatiles 8270D/SIM (with low-level PAHs)				
PAHs 8270D/SIM (low-level)				
PCBs 8082A				
Organochlorine Pesticides 8081B				
Organophosphorus Pesticides 8270D/SIM				
Chlorinated Acid Herbicides 8151A				
Total RCRA Metals			X	
Total MTCA Metals				
TCLP Metals				
HEM (oil and grease) 1664A				
% Moisture				X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Forweller	8/22/18	1558	<i>See page 1.</i>
<i>[Signature]</i>	OSE	8/23/18	1417	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 7, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-272B

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on September 5, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 7, 2018
Samples Submitted: September 5, 2018
Laboratory Reference: 1808-272B
Project: 397-019

Case Narrative

Samples were collected on August 22, 2018 and received by the laboratory on August 23, 2018. 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.

Semivolatiles EPA 8270D/SIM Analysis

Per client request, sample FB-06-10.0-082218 was extracted and analyzed out of hold-time.

The Spike Blank Duplicate associated with sample FB-06-10.0-082218 had one recovery slightly above control limits. The sample was non-detect for this analyte so no further action was taken.

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



Date of Report: September 7, 2018
 Samples Submitted: September 5, 2018
 Laboratory Reference: 1808-272B
 Project: 397-019

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:	FB-06-10.0-082218					
Laboratory ID:	08-272-02					
n-Nitrosodimethylamine	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Pyridine	ND	0.82	EPA 8270D	9-6-18	9-6-18	
Phenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Aniline	ND	0.41	EPA 8270D	9-6-18	9-6-18	
bis(2-Chloroethyl)ether	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2-Chlorophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
1,3-Dichlorobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
1,4-Dichlorobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Benzyl alcohol	ND	0.41	EPA 8270D	9-6-18	9-6-18	
1,2-Dichlorobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2-Methylphenol (o-Cresol)	ND	0.082	EPA 8270D	9-6-18	9-6-18	
bis(2-Chloroisopropyl)ether	ND	0.082	EPA 8270D	9-6-18	9-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.082	EPA 8270D	9-6-18	9-6-18	
n-Nitroso-di-n-propylamine	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Hexachloroethane	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Nitrobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Isophorone	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2-Nitrophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,4-Dimethylphenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
bis(2-Chloroethoxy)methane	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,4-Dichlorophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
1,2,4-Trichlorobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Naphthalene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
4-Chloroaniline	ND	0.41	EPA 8270D	9-6-18	9-6-18	
Hexachlorobutadiene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
4-Chloro-3-methylphenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2-Methylnaphthalene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
1-Methylnaphthalene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Hexachlorocyclopentadiene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,4,6-Trichlorophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,3-Dichloroaniline	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,4,5-Trichlorophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2-Chloronaphthalene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2-Nitroaniline	ND	0.082	EPA 8270D	9-6-18	9-6-18	
1,4-Dinitrobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Dimethylphthalate	ND	0.082	EPA 8270D	9-6-18	9-6-18	
1,3-Dinitrobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,6-Dinitrotoluene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
1,2-Dinitrobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Acenaphthylene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
3-Nitroaniline	ND	0.082	EPA 8270D	9-6-18	9-6-18	



Date of Report: September 7, 2018
 Samples Submitted: September 5, 2018
 Laboratory Reference: 1808-272B
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-06-10.0-082218					
Laboratory ID:	08-272-02					
2,4-Dinitrophenol	ND	0.41	EPA 8270D	9-6-18	9-6-18	
Acenaphthene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
4-Nitrophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,4-Dinitrotoluene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Dibenzofuran	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,3,5,6-Tetrachlorophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
2,3,4,6-Tetrachlorophenol	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Diethylphthalate	ND	0.41	EPA 8270D	9-6-18	9-6-18	
4-Chlorophenyl-phenylether	ND	0.082	EPA 8270D	9-6-18	9-6-18	
4-Nitroaniline	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Fluorene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
4,6-Dinitro-2-methylphenol	ND	0.41	EPA 8270D	9-6-18	9-6-18	
n-Nitrosodiphenylamine	ND	0.082	EPA 8270D	9-6-18	9-6-18	
1,2-Diphenylhydrazine	ND	0.082	EPA 8270D	9-6-18	9-6-18	
4-Bromophenyl-phenylether	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Hexachlorobenzene	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Pentachlorophenol	ND	0.41	EPA 8270D	9-6-18	9-6-18	
Phenanthrene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Anthracene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Carbazole	ND	0.082	EPA 8270D	9-6-18	9-6-18	
Di-n-butylphthalate	ND	0.93	EPA 8270D	9-6-18	9-6-18	U1
Fluoranthene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Benzidine	ND	0.82	EPA 8270D	9-6-18	9-6-18	
Pyrene	0.020	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Butylbenzylphthalate	ND	0.41	EPA 8270D	9-6-18	9-6-18	
bis-2-Ethylhexyladipate	ND	0.41	EPA 8270D	9-6-18	9-6-18	
3,3'-Dichlorobenzidine	ND	0.41	EPA 8270D	9-6-18	9-6-18	
Benzo[a]anthracene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Chrysene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
bis(2-Ethylhexyl)phthalate	ND	0.41	EPA 8270D	9-6-18	9-6-18	
Di-n-octylphthalate	ND	0.41	EPA 8270D	9-6-18	9-6-18	
Benzo[b]fluoranthene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Benzo(j,k)fluoranthene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Benzo[a]pyrene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Indeno[1,2,3-cd]pyrene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Dibenz[a,h]anthracene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
Benzo[g,h,i]perylene	ND	0.016	EPA 8270D/SIM	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>64</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>79</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>76</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>86</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>38 - 108</i>				



Date of Report: September 7, 2018
 Samples Submitted: September 5, 2018
 Laboratory Reference: 1808-272B
 Project: 397-019

**SEMIVOLATILE 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:	MB0906S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Pyridine	ND	0.33	EPA 8270D	9-6-18	9-6-18	
Phenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Aniline	ND	0.17	EPA 8270D	9-6-18	9-6-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2-Chlorophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Benzyl alcohol	ND	0.17	EPA 8270D	9-6-18	9-6-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	9-6-18	9-6-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	9-6-18	9-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	9-6-18	9-6-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Hexachloroethane	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Nitrobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Isophorone	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2-Nitrophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
4-Chloroaniline	ND	0.17	EPA 8270D	9-6-18	9-6-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2-Nitroaniline	ND	0.033	EPA 8270D	9-6-18	9-6-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Dimethylphthalate	ND	0.033	EPA 8270D	9-6-18	9-6-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
3-Nitroaniline	ND	0.033	EPA 8270D	9-6-18	9-6-18	



Date of Report: September 7, 2018
 Samples Submitted: September 5, 2018
 Laboratory Reference: 1808-272B
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0906S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	9-6-18	9-6-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
4-Nitrophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Dibenzofuran	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Diethylphthalate	ND	0.17	EPA 8270D	9-6-18	9-6-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	9-6-18	9-6-18	
4-Nitroaniline	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	9-6-18	9-6-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	9-6-18	9-6-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	9-6-18	9-6-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Pentachlorophenol	ND	0.17	EPA 8270D	9-6-18	9-6-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Carbazole	ND	0.033	EPA 8270D	9-6-18	9-6-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	9-6-18	9-6-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Benzidine	ND	0.33	EPA 8270D	9-6-18	9-6-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	9-6-18	9-6-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	9-6-18	9-6-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	9-6-18	9-6-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	9-6-18	9-6-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	9-6-18	9-6-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	73	19 - 103				
Phenol-d6	83	30 - 103				
Nitrobenzene-d5	82	27 - 105				
2-Fluorobiphenyl	82	36 - 102				
2,4,6-Tribromophenol	86	33 - 110				
Terphenyl-d14	80	38 - 108				



Date of Report: September 7, 2018
 Samples Submitted: September 5, 2018
 Laboratory Reference: 1808-272B
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0906S2									
Phenol	0.940	0.997	1.33	1.33	71	75	45 - 94	6	29	
2-Chlorophenol	0.963	1.05	1.33	1.33	72	79	46 - 94	9	33	
1,4-Dichlorobenzene	0.405	0.493	0.667	0.667	61	74	42 - 91	20	37	
n-Nitroso-di-n-propylamine	0.495	0.576	0.667	0.667	74	86	45 - 100	15	26	
1,2,4-Trichlorobenzene	0.480	0.537	0.667	0.667	72	81	45 - 100	11	32	
4-Chloro-3-methylphenol	1.08	1.19	1.33	1.33	81	89	55 - 97	10	21	
Acenaphthene	0.531	0.589	0.667	0.667	80	88	48 - 91	10	21	
4-Nitrophenol	1.17	1.33	1.33	1.33	88	100	53 - 102	13	20	
2,4-Dinitrotoluene	0.534	0.606	0.667	0.667	80	91	47 - 96	13	19	
Pentachlorophenol	1.46	1.78	1.33	1.33	110	134	35 - 125	20	26	I
Pyrene	0.523	0.592	0.667	0.667	78	89	55 - 110	12	17	
<i>Surrogate:</i>										
2-Fluorophenol					68	70	19 - 103			
Phenol-d6					77	79	30 - 103			
Nitrobenzene-d5					80	76	27 - 105			
2-Fluorobiphenyl					79	85	36 - 102			
2,4,6-Tribromophenol					82	91	33 - 110			
Terphenyl-d14					76	85	38 - 108			



Date of Report: September 7, 2018
Samples Submitted: September 5, 2018
Laboratory Reference: 1808-272B
Project: 397-019

% MOISTURE

Date Analyzed: 8-24,27&9-5-18

Client ID	Lab ID	% Moisture
FB-06-10.0-082218	08-272-02	59





Data Qualifiers and Abbreviations

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





Mn Onsite
Environmental Inc.

Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 893-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (In working days)
 (Check One)

- Same Day 1 Day
 2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

 (other)

Laboratory Number: **08-272**

Company: **FAKALLEN**
 Project Number: **397-019**
 Project Name: **Block 35 West Property**
 Project Manager: **Byron Newark**
 Sampled by: **Greg Pates**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FB-06-2.5-082218	8/22/18	0610	Soil	5
2	FB-06-10.0-082218		0640		
3	FB-06-15.0-082218		0655		
4	FB-06-20.0-082218		0710		
5	FB-06-25.0-082218		0730		
6	FB-05-5.0-082218		0840		
7	FB-05-10.0-082218		0855		
8	FB-05-15.0-082218		0910		
9	FB-05-20.0-082218		0930		
10	FB-05-25.0-082218		1110		

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Signature: *[Signature]*
 Company: **FAKALLEN**
 Date: **8/23/18**
 Time: **1850**

Signature: *[Signature]*
 Company: **OSB**
 Date: **8/23/18**
 Time: **1417**

Comments/Special Instructions:
Please contact Project Manager for analyses and turnaround time for each sample.
X - Added 8/22/18 DR (STA)
X - Added 8/15/18 DR (STA)

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Reviewed/Date

Reviewed/Date

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

Chain of Custody

Turnaround Request
 (In working days)
 (Check One)

Laboratory Number: **08-272**

Same Day

1 Day

2 Days

3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

(other) _____

Company: _____
 Project Number: _____
 Project Name: _____
 Project Manager: _____
 Sampled by: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	FB-05-30.0-082218	8/22/18	1120	Soil S
12	FB-05-35.0-082218		1130	Soil S
13	FB-05-40.0-082218		1140	Soil S
14	FB-05-082218		0950	Under 12

Number of Containers

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
		X																
		X																
		X																

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	<i>Forwarder</i>	<i>8/22/18</i>	<i>1550</i>	<i>See Page 1.</i>
<i>[Signature]</i>	<i>OSE</i>	<i>8/23/18</i>	<i>1417</i>	

Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 6, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-277

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 24, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 6, 2018
Samples Submitted: August 24, 2018
Laboratory Reference: 1808-277
Project: 397-019

Case Narrative

Samples were collected on August 23, 2018 and received by the laboratory on August 24, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH Gx/BTEX Analysis

The MTCA Method A cleanup level of 0.030 ppm for Benzene is not achievable for sample FMW-134-5.0-082318 due to the low dry weight of the sample.

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



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-5.0-082318					
Laboratory ID:	08-277-01					
Benzene	ND	0.059	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.30	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.30	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.30	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.30	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	30	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	80	57-129				

Client ID:	FMW-134-15.0-082318					
Laboratory ID:	08-277-03					
Benzene	ND	0.023	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.12	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.12	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.12	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.12	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	12	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	57-129				

Client ID:	FB-03-10.0-082318					
Laboratory ID:	08-277-06					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	6.5	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	101	57-129				



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-15.0-082318					
Laboratory ID:	08-277-07					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.065	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	6.5	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	57-129				
Client ID:	FB-03-25.0-082318					
Laboratory ID:	08-277-08					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.055	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.055	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.055	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.055	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	5.5	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	57-129				



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827S2					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	5.0	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-276-04							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				99	94	57-129		

SPIKE BLANKS

Laboratory ID:	SB0827S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.923	0.893	1.00	1.00	92	89	69-111	3	10
Toluene	0.915	0.880	1.00	1.00	92	88	70-114	4	11
Ethyl Benzene	0.918	0.886	1.00	1.00	92	89	70-115	4	10
m,p-Xylene	0.907	0.877	1.00	1.00	91	88	72-115	3	10
o-Xylene	0.917	0.882	1.00	1.00	92	88	71-115	4	11
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					89	86	57-129		



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-082318					
Laboratory ID:	08-277-12					
Benzene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
Toluene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
o-Xylene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
Gasoline	ND	100	NWTPH-Gx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	66-117				



Date of Report: September 6, 2018
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**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0828W1					
Benzene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
Toluene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
Ethyl Benzene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
m,p-Xylene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
o-Xylene	ND	1.0	EPA 8021B	8-28-18	8-28-18	
Gasoline	ND	100	NWTPH-Gx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	112	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-277-12							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				111	113	66-117		

MATRIX SPIKES

Laboratory ID:	08-277-12									
	MS	MSD	MS	MSD		MS	MSD			
Benzene	50.9	52.1	50.0	50.0	ND	102	104	82-122	2	11
Toluene	50.2	51.2	50.0	50.0	ND	100	102	83-123	2	12
Ethyl Benzene	50.6	51.9	50.0	50.0	ND	101	104	83-123	3	12
m,p-Xylene	50.1	51.2	50.0	50.0	ND	100	102	83-123	2	12
o-Xylene	50.7	51.8	50.0	50.0	ND	101	104	83-123	2	11
<i>Surrogate:</i>										
<i>Fluorobenzene</i>						100	100	66-117		



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 Project: 397-019

**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:	FMW-134-5.0-082318					
Laboratory ID:	08-277-01					
Diesel Range Organics	260	83	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	1900	170	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

Client ID:	FMW-134-15.0-082318					
Laboratory ID:	08-277-03					
Diesel Range Organics	ND	31	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	61	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	124	50-150				

Client ID:	FB-03-10.0-082318					
Laboratory ID:	08-277-06					
Diesel Range Organics	ND	32	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	65	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Client ID:	FB-03-15.0-082318					
Laboratory ID:	08-277-07					
Diesel Range Organics	ND	32	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	65	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Client ID:	FB-03-25.0-082318					
Laboratory ID:	08-277-08					
Diesel Range Organics	ND	29	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	59	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				



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**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:	MB0828S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>111</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-277-03							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				124	113	50-150		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-082318					
Laboratory ID:	08-277-12					
Diesel Range Organics	0.66	0.25	NWTPH-Dx	8-28-18	8-30-18	
Lube Oil Range Organics	0.49	0.41	NWTPH-Dx	8-28-18	8-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0828W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	118	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0828W1							
	ORIG	DUP						
Diesel Fuel #2	0.920	0.849	NA	NA	NA	NA	8	NA
Lube Oil	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	106	50-150		



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-082318					
Laboratory ID:	08-277-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloromethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Vinyl Chloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromomethane	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Chloroethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Acetone	7.4	5.0	EPA 8260C	8-29-18	8-29-18	
Iodomethane	ND	5.0	EPA 8260C	8-29-18	8-29-18	
Carbon Disulfide	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Methylene Chloride	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Vinyl Acetate	ND	1.0	EPA 8260C	8-29-18	8-29-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Butanone	ND	5.0	EPA 8260C	8-29-18	8-29-18	
Bromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloroform	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Benzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Trichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Dibromomethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromodichloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Toluene	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-082318					
Laboratory ID:	08-277-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Tetrachloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Hexanone	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Dibromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Ethylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
m,p-Xylene	ND	0.40	EPA 8260C	8-29-18	8-29-18	
o-Xylene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Styrene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromoform	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Isopropylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
n-Propylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
n-Butylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Naphthalene	ND	1.3	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>78-125</i>				



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VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloromethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Vinyl Chloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromomethane	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Chloroethane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Acetone	ND	5.0	EPA 8260C	8-29-18	8-29-18	
Iodomethane	ND	5.0	EPA 8260C	8-29-18	8-29-18	
Carbon Disulfide	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Methylene Chloride	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Vinyl Acetate	ND	1.0	EPA 8260C	8-29-18	8-29-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Butanone	ND	5.0	EPA 8260C	8-29-18	8-29-18	
Bromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chloroform	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Benzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Trichloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Dibromomethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromodichloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Toluene	ND	1.0	EPA 8260C	8-29-18	8-29-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-29-18	8-29-18	



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VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0829W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Tetrachloroethene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Hexanone	ND	2.0	EPA 8260C	8-29-18	8-29-18	
Dibromochloromethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Chlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Ethylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
m,p-Xylene	ND	0.40	EPA 8260C	8-29-18	8-29-18	
o-Xylene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Styrene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromoform	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Isopropylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Bromobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-29-18	8-29-18	
n-Propylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
n-Butylbenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-29-18	8-29-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	8-29-18	8-29-18	
Naphthalene	ND	1.3	EPA 8260C	8-29-18	8-29-18	
1,2,3-Trichlorobenzene	ND	0.26	EPA 8260C	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



Date of Report: September 6, 2018
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 Laboratory Reference: 1808-277
 Project: 397-019

**VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0829W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.6	10.0	10.0	10.0	106	100	62-129	6	15	
Benzene	11.1	10.5	10.0	10.0	111	105	77-127	6	15	
Trichloroethene	10.7	9.96	10.0	10.0	107	100	70-120	7	15	
Toluene	11.1	10.5	10.0	10.0	111	105	82-123	6	15	
Chlorobenzene	10.5	9.70	10.0	10.0	105	97	79-120	8	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>85</i>	<i>89</i>	<i>75-127</i>			
<i>Toluene-d8</i>					<i>88</i>	<i>89</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>93</i>	<i>94</i>	<i>78-125</i>			



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-15.0-082318					
Laboratory ID:	08-277-03					
n-Nitrosodimethylamine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.41	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.20	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Naphthalene	0.14	0.041	EPA 8270D	8-29-18	8-29-18	
4-Chloroaniline	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	0.028	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	0.012	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-15.0-082318					
Laboratory ID:	08-277-03					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	0.014	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Fluorene	0.016	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	0.021	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.041	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.41	EPA 8270D	8-29-18	8-29-18	
Pyrene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
bis(2-Ethylhexyl)adipate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0081	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>71</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>71</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>65</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>79</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>38 - 108</i>				



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-10.0-082318					
Laboratory ID:	08-277-06					
n-Nitrosodimethylamine	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.43	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.22	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.22	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.043	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.043	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.043	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Naphthalene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	0.22	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.043	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.043	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.043	EPA 8270D	8-29-18	8-29-18	



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 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-10.0-082318					
Laboratory ID:	08-277-06					
2,4-Dinitrophenol	ND	0.22	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.22	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.043	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Fluorene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.22	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.043	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.043	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.22	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	0.015	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.043	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.22	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	0.011	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.43	EPA 8270D	8-29-18	8-29-18	
Pyrene	0.012	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.22	EPA 8270D	8-29-18	8-29-18	
bis-2-Ethylhexyladipate	ND	0.22	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.22	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.22	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.22	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0086	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>60</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>61</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>52</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>56</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>52</i>	<i>38 - 108</i>				



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-35.0-082318					
Laboratory ID:	08-277-10					
n-Nitrosodimethylamine	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.40	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.20	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Naphthalene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.040	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.040	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.040	EPA 8270D	8-29-18	8-29-18	



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-35.0-082318					
Laboratory ID:	08-277-10					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Fluorene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	0.017	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.040	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	0.015	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.40	EPA 8270D	8-29-18	8-29-18	
Pyrene	0.017	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>75</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>78</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>69</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>84</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>38 - 108</i>				



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	79	19 - 103				
Phenol-d6	79	30 - 103				
Nitrobenzene-d5	73	27 - 105				
2-Fluorobiphenyl	75	36 - 102				
2,4,6-Tribromophenol	88	33 - 110				
Terphenyl-d14	81	38 - 108				



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	08-229-04										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	1.15	0.989	1.33	1.33	ND	86	74	37 - 94	15	27	
2-Chlorophenol	1.21	1.03	1.33	1.33	ND	91	77	37 - 95	16	32	
1,4-Dichlorobenzene	0.568	0.493	0.667	0.667	ND	85	74	23 - 97	14	37	
n-Nitroso-di-n-propylamine	0.580	0.501	0.667	0.667	ND	87	75	40 - 91	15	28	
1,2,4-Trichlorobenzene	0.563	0.505	0.667	0.667	ND	84	76	37 - 93	11	30	
4-Chloro-3-methylphenol	1.11	1.03	1.33	1.33	ND	83	77	46 - 96	7	25	
Acenaphthene	0.585	0.526	0.667	0.667	0.0395	82	73	43 - 90	11	25	
4-Nitrophenol	1.15	1.03	1.33	1.33	ND	86	77	31 - 104	11	28	
2,4-Dinitrotoluene	0.575	0.516	0.667	0.667	ND	86	77	31 - 96	11	32	
Pentachlorophenol	1.38	1.22	1.33	1.33	ND	104	92	20 - 123	12	29	
Pyrene	0.582	0.518	0.667	0.667	0.0828	75	65	28 - 114	12	35	
<i>Surrogate:</i>											
2-Fluorophenol						85	71	19 - 103			
Phenol-d6						84	73	30 - 103			
Nitrobenzene-d5						72	65	27 - 105			
2-Fluorobiphenyl						77	70	36 - 102			
2,4,6-Tribromophenol						92	84	33 - 110			
Terphenyl-d14						78	71	38 - 108			



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-5.0-082318					
Laboratory ID:	08-277-01					
Arsenic	ND	17	EPA 6010D	8-29-18	8-31-18	
Barium	110	8.3	EPA 6010D	8-29-18	8-31-18	
Cadmium	ND	1.7	EPA 6010D	8-29-18	8-31-18	
Chromium	19	1.7	EPA 6010D	8-29-18	8-31-18	
Lead	ND	17	EPA 6010D	8-29-18	8-31-18	
Mercury	ND	0.83	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	17	EPA 6010D	8-29-18	8-31-18	
Silver	ND	3.3	EPA 6010D	8-29-18	8-31-18	

Client ID: FMW-134-15.0-082318

Laboratory ID: 08-277-03

Arsenic	ND	12	EPA 6010D	8-29-18	8-31-18	
Barium	48	3.0	EPA 6010D	8-29-18	8-31-18	
Cadmium	ND	0.61	EPA 6010D	8-29-18	8-31-18	
Chromium	42	0.61	EPA 6010D	8-29-18	8-31-18	
Lead	ND	6.1	EPA 6010D	8-29-18	8-31-18	
Mercury	ND	0.30	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	12	EPA 6010D	8-29-18	8-31-18	
Silver	ND	1.2	EPA 6010D	8-29-18	8-31-18	

Client ID: FB-03-10.0-082318

Laboratory ID: 08-277-06

Arsenic	ND	13	EPA 6010D	8-29-18	8-31-18	
Barium	230	3.2	EPA 6010D	8-29-18	8-31-18	
Cadmium	ND	0.65	EPA 6010D	8-29-18	8-31-18	
Chromium	100	0.65	EPA 6010D	8-29-18	8-31-18	
Lead	8.9	6.5	EPA 6010D	8-29-18	8-31-18	
Mercury	ND	0.32	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	13	EPA 6010D	8-29-18	8-31-18	
Silver	ND	1.3	EPA 6010D	8-29-18	8-31-18	



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-03-35.0-082318					
Laboratory ID:	08-277-10					
Arsenic	ND	12	EPA 6010D	8-29-18	8-31-18	
Barium	44	3.0	EPA 6010D	8-29-18	8-31-18	
Cadmium	ND	0.60	EPA 6010D	8-29-18	8-31-18	
Chromium	42	0.60	EPA 6010D	8-29-18	8-31-18	
Lead	ND	6.0	EPA 6010D	8-29-18	8-31-18	
Mercury	ND	0.30	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	12	EPA 6010D	8-29-18	8-31-18	
Silver	ND	1.2	EPA 6010D	8-29-18	8-31-18	



Date of Report: September 6, 2018
 Samples Submitted: August 24, 2018
 Laboratory Reference: 1808-277
 Project: 397-019

**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:	MB0829SM1					
Arsenic	ND	5.0	EPA 6010D	8-29-18	8-31-18	
Barium	ND	2.5	EPA 6010D	8-29-18	8-31-18	
Cadmium	ND	0.50	EPA 6010D	8-29-18	8-31-18	
Chromium	ND	0.50	EPA 6010D	8-29-18	8-31-18	
Lead	ND	5.0	EPA 6010D	8-29-18	8-31-18	
Selenium	ND	5.0	EPA 6010D	8-29-18	8-31-18	
Silver	ND	1.0	EPA 6010D	8-29-18	8-31-18	

Laboratory ID:	MB0829S1					
Mercury	ND	0.25	EPA 7471B	8-29-18	8-29-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-277-03							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	39.8	42.3	NA	NA	NA	6	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	34.5	36.2	NA	NA	NA	5	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	08-277-03							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	08-277-03									
	MS	MSD	MS	MSD	MS	MSD				
Arsenic	98.9	98.4	100	100	ND	99	98	75-125	0	20
Barium	148	148	100	100	39.8	109	109	75-125	0	20
Cadmium	49.4	48.5	50.0	50.0	ND	99	97	75-125	2	20
Chromium	137	136	100	100	34.5	102	102	75-125	0	20
Lead	242	239	250	250	ND	97	96	75-125	1	20
Selenium	100	101	100	100	ND	100	101	75-125	0	20
Silver	22.9	22.7	25.0	25.0	ND	92	91	75-125	1	20

Laboratory ID:	08-277-03									
Mercury	0.534	0.537	0.500	0.500	0.0115	105	105	80-120	1	20



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

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

Date of Report: September 6, 2018
Samples Submitted: August 24, 2018
Laboratory Reference: 1808-277
Project: 397-019

% MOISTURE

Date Analyzed: 8-27&28-18

Client ID	Lab ID	% Moisture
FMW-134-5.0-082318	08-277-01	70
FMW-134-15.0-082318	08-277-03	18
FB-03-10.0-082318	08-277-06	23
FB-03-15.0-082318	08-277-07	23
FB-03-25.0-082318	08-277-08	15
FB-03-35.0-082318	08-277-10	16





Data Qualifiers and Abbreviations

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





OnSite Environmental Inc.

Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Laboratory Number: **08-277**

Company: **Farr-Len**

Project Number: **397-019**

Project Name: **Block 38 West Property**

Project Manager: **Tamara Ewert**

Sampled by: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FMW-134-5.0-082318	8/21/18	0710	Soil	5
2	FMW-134-10.0-082318		0720		
3	FMW-134-15.0-082318		0730		
4	FMW-134-20.0-082318		0750		
5	FB03-5.0-082318		1250		
6	FB03-10.0-082318		1310		
7	FB03-15.0-082318		1325		
8	FB03-25.0-082318		1500		
9	FB03-30.0-082318		1520		
10	FB03-35.0-082318		1530		

Lab ID	Sample Identification	Date	Time	Comments/Special Instructions
1	FMW-134-5.0-082318	8/23/18	1857	Please Contact Project Manager for Sample Analysis and Turnaround time. Confirmations of X-Added 8/27/18. DS (STA)
2	FMW-134-10.0-082318	8/24/18	1100	
3	FMW-134-15.0-082318			
4	FMW-134-20.0-082318			
5	FB03-5.0-082318			
6	FB03-10.0-082318			
7	FB03-15.0-082318			
8	FB03-25.0-082318			
9	FB03-30.0-082318			
10	FB03-35.0-082318			

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	FMW-134-5.0-082318	8/21/18	0710	Soil	5	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X
2	FMW-134-10.0-082318		0720																					
3	FMW-134-15.0-082318		0730				X		X				X							X				X
4	FMW-134-20.0-082318		0750																					
5	FB03-5.0-082318		1250																					
6	FB03-10.0-082318		1310				X		X				X							X				X
7	FB03-15.0-082318		1325				X		X				X											X
8	FB03-25.0-082318		1500				X		X				X											X
9	FB03-30.0-082318		1520																					
10	FB03-35.0-082318		1530																					X

Relinquished _____ Signature _____ Company _____ Date _____ Time _____

Received _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



Onsite Environmental Inc.

Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: _____

Project Number: _____

Project Name: _____

Project Manager: _____

Sampled by: _____

Terraround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	FG-03-410.0-082318	8/23/18	1540	Soil S	5
12	FG-03-082318	8/23/18	1400	Water B	8
13	FMW-1314-2.5-082318	8/23/18	0700	Soil S	5

Number of Containers	Analysis
	NWTPH-HCID
	NWTPH-Gx/BTEX
	NWTPH-Gx
	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)
	Volatiles 8260C
	Halogenated Volatiles 8260C
	EDB EPA 8011 (Waters Only)
	Semivolatiles 8270D/SIM (with low-level PAHs)
	PAHs 8270D/SIM (low-level)
	PCBs 8082A
	Organochlorine Pesticides 8081B
	Organophosphorus Pesticides 8270D/SIM
	Chlorinated Acid Herbicides 8151A
	Total RCRA Metals
	Total MTCA Metals
	TCLP Metals
	HEM (oil and grease) 1664A
	% Moisture

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished					See Page 1.
Received		O&E	8/24/18	1100	
Relinquished					
Received					
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Received					Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



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

September 5, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-292

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 5, 2018
Samples Submitted: August 25, 2018
Laboratory Reference: 1808-292
Project: 397-019

Case Narrative

Samples were collected on August 24, 2018 and received by the laboratory on August 25, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH Gx/BTEX Analysis

The MTCA Method A cleanup level of 0.030 ppm for Benzene is not achievable for sample FMW-135-15.0-082418 due to the low dry weight of the sample.

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



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-15.0-082418					
Laboratory ID:	08-292-02					
Benzene	ND	0.055	EPA 8021B	8-27-18	8-28-18	
Toluene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
Ethyl Benzene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
m,p-Xylene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
o-Xylene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
Gasoline	ND	28	NWTPH-Gx	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	57-129				

Client ID:	FMW-135-35.0-082418					
Laboratory ID:	08-292-06					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-28-18	
Toluene	ND	0.058	EPA 8021B	8-27-18	8-28-18	
Ethyl Benzene	ND	0.058	EPA 8021B	8-27-18	8-28-18	
m,p-Xylene	ND	0.058	EPA 8021B	8-27-18	8-28-18	
o-Xylene	ND	0.058	EPA 8021B	8-27-18	8-28-18	
Gasoline	ND	5.8	NWTPH-Gx	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	80	57-129				



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827S1					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	5.0	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-276-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				104	103	57-129		

SPIKE BLANKS

Laboratory ID:	SB0827S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.923	0.893	1.00	1.00	92	89	69-111	3	10
Toluene	0.915	0.880	1.00	1.00	92	88	70-114	4	11
Ethyl Benzene	0.918	0.886	1.00	1.00	92	89	70-115	4	10
m,p-Xylene	0.907	0.877	1.00	1.00	91	88	72-115	3	10
o-Xylene	0.917	0.882	1.00	1.00	92	88	71-115	4	11
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					89	86	57-129		



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**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:	FMW-135-15.0-082418					
Laboratory ID:	08-292-02					
Diesel Range Organics	130	83	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	680	170	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				

Client ID:	FMW-135-35.0-082418					
Laboratory ID:	08-292-06					
Diesel Range Organics	ND	31	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	62	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	99	50-150				



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**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:	MB0828S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>111</i>	<i>50-150</i>				

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-277-03							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				124	113	50-150		



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-50.0-082418					
Laboratory ID:	08-292-09					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-28-18	8-29-18	
Chloromethane	ND	0.0037	EPA 8260C	8-28-18	8-29-18	
Vinyl Chloride	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Bromomethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Chloroethane	ND	0.0037	EPA 8260C	8-28-18	8-29-18	
Trichlorofluoromethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,1-Dichloroethene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Iodomethane	ND	0.0053	EPA 8260C	8-28-18	8-29-18	
Methylene Chloride	ND	0.0037	EPA 8260C	8-28-18	8-29-18	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,1-Dichloroethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
2,2-Dichloropropane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Bromochloromethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Chloroform	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,1,1-Trichloroethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Carbon Tetrachloride	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,1-Dichloropropene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,2-Dichloroethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Trichloroethene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,2-Dichloropropane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Dibromomethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Bromodichloromethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260C	8-28-18	8-29-18	
(cis) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
(trans) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-50.0-082418					
Laboratory ID:	08-292-09					
1,1,2-Trichloroethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Tetrachloroethene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,3-Dichloropropane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Dibromochloromethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,2-Dibromoethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Chlorobenzene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,1,1,2-Tetrachloroethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Bromoform	ND	0.0037	EPA 8260C	8-28-18	8-29-18	
Bromobenzene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,1,2,2-Tetrachloroethane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,2,3-Trichloropropane	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
2-Chlorotoluene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
4-Chlorotoluene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,3-Dichlorobenzene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,4-Dichlorobenzene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,2-Dichlorobenzene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	8-28-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	8-28-18	8-29-18	
1,2,3-Trichlorobenzene	ND	0.00074	EPA 8260C	8-28-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	68-139				
<i>Toluene-d8</i>	100	79-128				
<i>4-Bromofluorobenzene</i>	102	71-132				



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

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:	MB0828S2					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-28-18	8-28-18	
Chloromethane	ND	0.0050	EPA 8260C	8-28-18	8-28-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Bromomethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Chloroethane	ND	0.0050	EPA 8260C	8-28-18	8-28-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Iodomethane	ND	0.0065	EPA 8260C	8-28-18	8-28-18	
Methylene Chloride	ND	0.0050	EPA 8260C	8-28-18	8-28-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Chloroform	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	8-28-18	8-28-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	



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 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0828S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Bromoform	ND	0.0050	EPA 8260C	8-28-18	8-28-18	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-18	8-28-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-18	8-28-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>71-132</i>				



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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0828S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0608	0.0586	0.0500	0.0500	122	117	53-141	4	17	
Benzene	0.0636	0.0600	0.0500	0.0500	127	120	70-130	6	15	
Trichloroethene	0.0588	0.0580	0.0500	0.0500	118	116	74-122	1	16	
Toluene	0.0628	0.0621	0.0500	0.0500	126	124	76-130	1	15	
Chlorobenzene	0.0559	0.0532	0.0500	0.0500	112	106	75-120	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	99	68-139			
<i>Toluene-d8</i>					108	107	79-128			
<i>4-Bromofluorobenzene</i>					108	109	71-132			



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
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 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-15.0-082418					
Laboratory ID:	08-292-02					
n-Nitrosodimethylamine	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Pyridine	ND	1.1	EPA 8270D	8-29-18	8-30-18	
Phenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Aniline	ND	0.56	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2-Chlorophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
1,3-Dichlorobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
1,4-Dichlorobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Benzyl alcohol	ND	0.56	EPA 8270D	8-29-18	8-30-18	
1,2-Dichlorobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.11	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.11	EPA 8270D	8-29-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.11	EPA 8270D	8-29-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Hexachloroethane	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Nitrobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Isophorone	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2-Nitrophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,4-Dimethylphenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,4-Dichlorophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Naphthalene	0.029	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
4-Chloroaniline	ND	0.56	EPA 8270D	8-29-18	8-30-18	
Hexachlorobutadiene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2-Methylnaphthalene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
1-Methylnaphthalene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Hexachlorocyclopentadiene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,3-Dichloroaniline	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2-Chloronaphthalene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2-Nitroaniline	ND	0.11	EPA 8270D	8-29-18	8-30-18	
1,4-Dinitrobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Dimethylphthalate	ND	0.11	EPA 8270D	8-29-18	8-30-18	
1,3-Dinitrobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,6-Dinitrotoluene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
1,2-Dinitrobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Acenaphthylene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
3-Nitroaniline	ND	0.11	EPA 8270D	8-29-18	8-30-18	



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-15.0-082418					
Laboratory ID:	08-292-02					
2,4-Dinitrophenol	ND	0.56	EPA 8270D	8-29-18	8-30-18	
Acenaphthene	0.039	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
4-Nitrophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,4-Dinitrotoluene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Dibenzofuran	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Diethylphthalate	ND	0.56	EPA 8270D	8-29-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.11	EPA 8270D	8-29-18	8-30-18	
4-Nitroaniline	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Fluorene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
4,6-Dinitro-2-methylphenol	ND	0.56	EPA 8270D	8-29-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.11	EPA 8270D	8-29-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.11	EPA 8270D	8-29-18	8-30-18	
4-Bromophenyl-phenylether	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Hexachlorobenzene	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Pentachlorophenol	ND	0.56	EPA 8270D	8-29-18	8-30-18	
Phenanthrene	0.068	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Anthracene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Carbazole	ND	0.11	EPA 8270D	8-29-18	8-30-18	
Di-n-butylphthalate	ND	0.56	EPA 8270D	8-29-18	8-30-18	
Fluoranthene	0.042	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Benzidine	ND	1.1	EPA 8270D	8-29-18	8-30-18	
Pyrene	0.073	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Butylbenzylphthalate	ND	0.56	EPA 8270D	8-29-18	8-30-18	
bis-2-Ethylhexyladipate	ND	0.56	EPA 8270D	8-29-18	8-30-18	
3,3'-Dichlorobenzidine	ND	0.56	EPA 8270D	8-29-18	8-30-18	
Benzo[a]anthracene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Chrysene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
bis(2-Ethylhexyl)phthalate	ND	0.56	EPA 8270D	8-29-18	8-30-18	
Di-n-octylphthalate	ND	0.56	EPA 8270D	8-29-18	8-30-18	
Benzo[b]fluoranthene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Benzo(j,k)fluoranthene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Benzo[a]pyrene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Indeno[1,2,3-cd]pyrene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Dibenz[a,h]anthracene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
Benzo[g,h,i]perylene	ND	0.022	EPA 8270D/SIM	8-29-18	8-31-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>58</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>60</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>59</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>65</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>76</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>71</i>	<i>38 - 108</i>				



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-30.0-082418					
Laboratory ID:	08-292-05					
n-Nitrosodimethylamine	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Pyridine	ND	0.41	EPA 8270D	8-29-18	8-30-18	
Phenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Aniline	ND	0.21	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2-Chlorophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
1,3-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
1,4-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Benzyl alcohol	ND	0.21	EPA 8270D	8-29-18	8-30-18	
1,2-Dichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270D	8-29-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270D	8-29-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Hexachloroethane	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Nitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Isophorone	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2-Nitrophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,4-Dimethylphenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,4-Dichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Naphthalene	0.12	0.041	EPA 8270D	8-29-18	8-30-18	
4-Chloroaniline	ND	0.21	EPA 8270D	8-29-18	8-30-18	
Hexachlorobutadiene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2-Methylnaphthalene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	0.012	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,3-Dichloroaniline	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2-Chloronaphthalene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-30-18	
1,4-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Dimethylphthalate	ND	0.041	EPA 8270D	8-29-18	8-30-18	
1,3-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,6-Dinitrotoluene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
1,2-Dinitrobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Acenaphthylene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-30-18	



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-30.0-082418					
Laboratory ID:	08-292-05					
2,4-Dinitrophenol	ND	0.21	EPA 8270D	8-29-18	8-30-18	
Acenaphthene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,4-Dinitrotoluene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Dibenzofuran	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Diethylphthalate	ND	0.21	EPA 8270D	8-29-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270D	8-29-18	8-30-18	
4-Nitroaniline	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Fluorene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270D	8-29-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270D	8-29-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270D	8-29-18	8-30-18	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Hexachlorobenzene	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Pentachlorophenol	ND	0.21	EPA 8270D	8-29-18	8-30-18	
Phenanthrene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.041	EPA 8270D	8-29-18	8-30-18	
Di-n-butylphthalate	ND	0.21	EPA 8270D	8-29-18	8-30-18	
Fluoranthene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.41	EPA 8270D	8-29-18	8-30-18	
Pyrene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.21	EPA 8270D	8-29-18	8-30-18	
bis-2-Ethylhexyladipate	ND	0.21	EPA 8270D	8-29-18	8-30-18	
3,3'-Dichlorobenzidine	ND	0.21	EPA 8270D	8-29-18	8-30-18	
Benzo[a]anthracene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.21	EPA 8270D	8-29-18	8-30-18	
Di-n-octylphthalate	ND	0.21	EPA 8270D	8-29-18	8-30-18	
Benzo[b]fluoranthene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0082	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>73</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>72</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>64</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>80</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>78</i>	<i>38 - 108</i>				



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**SEMIVOLATILE 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:	MB0829S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	79	19 - 103				
Phenol-d6	79	30 - 103				
Nitrobenzene-d5	73	27 - 105				
2-Fluorobiphenyl	75	36 - 102				
2,4,6-Tribromophenol	88	33 - 110				
Terphenyl-d14	81	38 - 108				



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	08-229-04										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	1.15	0.989	1.33	1.33	ND	86	74	37 - 94	15	27	
2-Chlorophenol	1.21	1.03	1.33	1.33	ND	91	77	37 - 95	16	32	
1,4-Dichlorobenzene	0.568	0.493	0.667	0.667	ND	85	74	23 - 97	14	37	
n-Nitroso-di-n-propylamine	0.580	0.501	0.667	0.667	ND	87	75	40 - 91	15	28	
1,2,4-Trichlorobenzene	0.563	0.505	0.667	0.667	ND	84	76	37 - 93	11	30	
4-Chloro-3-methylphenol	1.11	1.03	1.33	1.33	ND	83	77	46 - 96	7	25	
Acenaphthene	0.585	0.526	0.667	0.667	0.0395	82	73	43 - 90	11	25	
4-Nitrophenol	1.15	1.03	1.33	1.33	ND	86	77	31 - 104	11	28	
2,4-Dinitrotoluene	0.575	0.516	0.667	0.667	ND	86	77	31 - 96	11	32	
Pentachlorophenol	1.38	1.22	1.33	1.33	ND	104	92	20 - 123	12	29	
Pyrene	0.582	0.518	0.667	0.667	0.0828	75	65	28 - 114	12	35	
<i>Surrogate:</i>											
2-Fluorophenol						85	71	19 - 103			
Phenol-d6						84	73	30 - 103			
Nitrobenzene-d5						72	65	27 - 105			
2-Fluorobiphenyl						77	70	36 - 102			
2,4,6-Tribromophenol						92	84	33 - 110			
Terphenyl-d14						78	71	38 - 108			



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-5.0-082418					
Laboratory ID:	08-292-01					
Arsenic	ND	12	EPA 6010D	8-28-18	8-31-18	
Barium	120	3.1	EPA 6010D	8-28-18	8-31-18	
Cadmium	ND	0.61	EPA 6010D	8-28-18	8-31-18	
Chromium	48	0.61	EPA 6010D	8-28-18	8-31-18	
Lead	16	6.1	EPA 6010D	8-28-18	8-31-18	
Mercury	ND	0.31	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	12	EPA 6010D	8-28-18	8-31-18	
Silver	ND	1.2	EPA 6010D	8-28-18	8-31-18	

Client ID: FMW-135-25.0-082418

Laboratory ID: 08-292-04

Arsenic	ND	14	EPA 6010D	8-28-18	8-31-18	
Barium	120	3.5	EPA 6010D	8-28-18	8-31-18	
Cadmium	ND	0.69	EPA 6010D	8-28-18	8-31-18	
Chromium	60	0.69	EPA 6010D	8-28-18	8-31-18	
Lead	ND	6.9	EPA 6010D	8-28-18	8-31-18	
Mercury	ND	0.35	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	14	EPA 6010D	8-28-18	8-31-18	
Silver	ND	1.4	EPA 6010D	8-28-18	8-31-18	

Client ID: FMW-135-30.0-082418

Laboratory ID: 08-292-05

Arsenic	ND	12	EPA 6010D	8-28-18	8-31-18	
Barium	66	3.1	EPA 6010D	8-28-18	8-31-18	
Cadmium	ND	0.62	EPA 6010D	8-28-18	8-31-18	
Chromium	44	0.62	EPA 6010D	8-28-18	8-31-18	
Lead	ND	6.2	EPA 6010D	8-28-18	8-31-18	
Mercury	ND	0.31	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	12	EPA 6010D	8-28-18	8-31-18	
Silver	ND	1.2	EPA 6010D	8-28-18	8-31-18	



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-292
 Project: 397-019

**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:	MB0828SM2					
Arsenic	ND	10	EPA 6010D	8-28-18	8-29-18	
Barium	ND	2.5	EPA 6010D	8-28-18	8-29-18	
Cadmium	ND	0.50	EPA 6010D	8-28-18	8-29-18	
Chromium	ND	0.50	EPA 6010D	8-28-18	8-28-18	
Lead	ND	5.0	EPA 6010D	8-28-18	8-29-18	
Selenium	ND	10	EPA 6010D	8-28-18	8-29-18	
Silver	ND	1.0	EPA 6010D	8-28-18	8-29-18	

Laboratory ID:	MB0829S1					
Mercury	ND	0.25	EPA 7471B	8-29-18	8-29-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-265-16							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	22.1	19.5	NA	NA	NA	13	20	
Cadmium	25.2	23.2	NA	NA	NA	8	20	
Chromium	8.95	7.40	NA	NA	NA	19	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	08-277-03							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	08-265-16									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	111	112	100	100	ND	111	112	75-125	1	20
Barium	141	139	100	100	22.1	119	117	75-125	1	20
Cadmium	75.1	75.9	50.0	50.0	25.2	100	101	75-125	1	20
Chromium	109	108	100	100	8.95	100	99	75-125	1	20
Lead	237	239	250	250	ND	95	95	75-125	1	20
Selenium	104	101	100	100	ND	104	101	75-125	2	20
Silver	25.6	25.4	25.0	25.0	ND	102	102	75-125	1	20

Laboratory ID:	08-277-03									
Mercury	0.534	0.537	0.500	0.500	0.0115	105	105	80-120	1	20



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

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

Date of Report: September 5, 2018
Samples Submitted: August 25, 2018
Laboratory Reference: 1808-292
Project: 397-019

% MOISTURE

Date Analyzed: 8-27&28-18

Client ID	Lab ID	% Moisture
FMW-135-5.0-082418	08-292-01	18
FMW-135-15.0-082418	08-292-02	70
FMW-135-25.0-082418	08-292-04	28
FMW-135-30.0-082418	08-292-05	19
FMW-135-35.0-082418	08-292-06	19
FMW-135-50.0-082418	08-292-09	16





Data Qualifiers and Abbreviations

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





Mw Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-9881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

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

Laboratory Number:

08-292

Company: Fovallan
 Project Number: 397-019
 Project Name: Block 38 West Property
 Project Manager: Savan Puente
 Sampled by: Greg Peters

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	FMW-135-50-082418	8/24/18	0735	Soil S
2	FMW-135-150-082418		0750	
3	FMW-135-200-082418		0810	
4	FMW-135-250-082418		0823	
5	FMW-135-300-082418		0835	
6	FMW-135-350-082418		0850	
7	FMW-135-400-082418		0915	
8	FMW-135-450-082418		0930	
9	FMW-135-500-082418		0950	

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1			X	X				X						X				X
2																		
3																		
4																		
5								X										X
6				X														X
7																		
8																		
9					X													X

Signature: [Signature]
 Company: Fovallan
 Date: 8/24/18
 Time: 0840
 Comments/Special Instructions: Please contact Project manager for analyses and turnaround time confirmation.
X-Added 8/27/18. DB (STA)

Received	Relinquished	Received	Relinquished	Received	Relinquished	Reviewed/Date

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 5, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-293

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 5, 2018
Samples Submitted: August 25, 2018
Laboratory Reference: 1808-293
Project: 397-019

Case Narrative

Samples were collected on August 24, 2018 and received by the laboratory on August 25, 2018. 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.

Semivolatiles EPA 8270D/SIM Analysis

Sample FMW-133-20.0-082418 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

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



Date of Report: September 5, 2018
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**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-5.0-082418					
Laboratory ID:	08-293-02					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-28-18	
Toluene	ND	0.084	EPA 8021B	8-27-18	8-28-18	
Ethyl Benzene	ND	0.084	EPA 8021B	8-27-18	8-28-18	
m,p-Xylene	ND	0.084	EPA 8021B	8-27-18	8-28-18	
o-Xylene	ND	0.084	EPA 8021B	8-27-18	8-28-18	
Gasoline	ND	8.4	NWTPH-Gx	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>77</i>	<i>57-129</i>				

Client ID:	FMW-133-10.0-082418					
Laboratory ID:	08-293-03					
Benzene	ND	0.057	EPA 8021B	8-27-18	8-28-18	
Toluene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
Ethyl Benzene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
m,p-Xylene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
o-Xylene	ND	0.28	EPA 8021B	8-27-18	8-28-18	
Gasoline	ND	28	NWTPH-Gx	8-27-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>80</i>	<i>57-129</i>				



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**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827S1					
Benzene	ND	0.020	EPA 8021B	8-27-18	8-27-18	
Toluene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
Ethyl Benzene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
m,p-Xylene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
o-Xylene	ND	0.050	EPA 8021B	8-27-18	8-27-18	
Gasoline	ND	5.0	NWTPH-Gx	8-27-18	8-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-276-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				104	103	57-129		

SPIKE BLANKS

Laboratory ID:	SB0827S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	0.923	0.893	1.00	1.00	92	89	69-111	3	10
Toluene	0.915	0.880	1.00	1.00	92	88	70-114	4	11
Ethyl Benzene	0.918	0.886	1.00	1.00	92	89	70-115	4	10
m,p-Xylene	0.907	0.877	1.00	1.00	91	88	72-115	3	10
o-Xylene	0.917	0.882	1.00	1.00	92	88	71-115	4	11
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					89	86	57-129		



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**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:	FMW-132-5.0-082418					
Laboratory ID:	08-293-02					
Diesel Range Organics	730	180	NWTPH-Dx	8-28-18	8-30-18	
Lube Oil Range Organics	2600	360	NWTPH-Dx	8-28-18	8-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Client ID:	FMW-133-10.0-082418					
Laboratory ID:	08-293-03					
Diesel Range Organics	ND	83	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	470	170	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				



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**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:	MB0828S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-28-18	8-28-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-28-18	8-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-277-03							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				124	113	50-150		



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-5.0-082418					
Laboratory ID:	08-293-02					
n-Nitrosodimethylamine	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Pyridine	ND	4.8	EPA 8270D	8-29-18	8-31-18	
Phenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Aniline	ND	2.4	EPA 8270D	8-29-18	8-31-18	
bis(2-Chloroethyl)ether	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2-Chlorophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
1,3-Dichlorobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
1,4-Dichlorobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Benzyl alcohol	ND	2.4	EPA 8270D	8-29-18	8-31-18	
1,2-Dichlorobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2-Methylphenol (o-Cresol)	ND	0.48	EPA 8270D	8-29-18	8-31-18	
bis(2-Chloroisopropyl)ether	ND	0.48	EPA 8270D	8-29-18	8-31-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.48	EPA 8270D	8-29-18	8-31-18	
n-Nitroso-di-n-propylamine	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Hexachloroethane	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Nitrobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Isophorone	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2-Nitrophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,4-Dimethylphenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
bis(2-Chloroethoxy)methane	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,4-Dichlorophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
1,2,4-Trichlorobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Naphthalene	2.0	0.48	EPA 8270D	8-29-18	8-31-18	
4-Chloroaniline	ND	2.4	EPA 8270D	8-29-18	8-31-18	
Hexachlorobutadiene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
4-Chloro-3-methylphenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2-Methylnaphthalene	2.6	0.48	EPA 8270D	8-29-18	8-31-18	
1-Methylnaphthalene	2.0	0.48	EPA 8270D	8-29-18	8-31-18	
Hexachlorocyclopentadiene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,4,6-Trichlorophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,3-Dichloroaniline	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,4,5-Trichlorophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2-Chloronaphthalene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2-Nitroaniline	ND	0.48	EPA 8270D	8-29-18	8-31-18	
1,4-Dinitrobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Dimethylphthalate	ND	0.48	EPA 8270D	8-29-18	8-31-18	
1,3-Dinitrobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,6-Dinitrotoluene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
1,2-Dinitrobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Acenaphthylene	0.10	0.0095	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.48	EPA 8270D	8-29-18	8-31-18	



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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-5.0-082418					
Laboratory ID:	08-293-02					
2,4-Dinitrophenol	ND	2.4	EPA 8270D	8-29-18	8-31-18	
Acenaphthene	1.5	0.48	EPA 8270D	8-29-18	8-31-18	
4-Nitrophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,4-Dinitrotoluene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Dibenzofuran	0.70	0.48	EPA 8270D	8-29-18	8-31-18	
2,3,5,6-Tetrachlorophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
2,3,4,6-Tetrachlorophenol	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Diethylphthalate	ND	2.4	EPA 8270D	8-29-18	8-31-18	
4-Chlorophenyl-phenylether	ND	0.48	EPA 8270D	8-29-18	8-31-18	
4-Nitroaniline	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Fluorene	0.84	0.48	EPA 8270D	8-29-18	8-31-18	
4,6-Dinitro-2-methylphenol	ND	2.4	EPA 8270D	8-29-18	8-31-18	
n-Nitrosodiphenylamine	ND	0.48	EPA 8270D	8-29-18	8-31-18	
1,2-Diphenylhydrazine	ND	0.48	EPA 8270D	8-29-18	8-31-18	
4-Bromophenyl-phenylether	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Hexachlorobenzene	ND	0.48	EPA 8270D	8-29-18	8-31-18	
Pentachlorophenol	ND	2.4	EPA 8270D	8-29-18	8-31-18	
Phenanthrene	18	0.48	EPA 8270D	8-29-18	8-31-18	
Anthracene	3.3	0.48	EPA 8270D	8-29-18	8-31-18	
Carbazole	1.1	0.48	EPA 8270D	8-29-18	8-31-18	
Di-n-butylphthalate	ND	2.4	EPA 8270D	8-29-18	8-31-18	
Fluoranthene	15	0.48	EPA 8270D	8-29-18	8-31-18	
Benzidine	ND	4.8	EPA 8270D	8-29-18	8-31-18	
Pyrene	27	0.48	EPA 8270D	8-29-18	8-31-18	
Butylbenzylphthalate	ND	2.4	EPA 8270D	8-29-18	8-31-18	
bis-2-Ethylhexyladipate	ND	2.4	EPA 8270D	8-29-18	8-31-18	
3,3'-Dichlorobenzidine	ND	2.4	EPA 8270D	8-29-18	8-31-18	
Benzo[a]anthracene	11	0.48	EPA 8270D	8-29-18	8-31-18	
Chrysene	13	0.48	EPA 8270D	8-29-18	8-31-18	
bis(2-Ethylhexyl)phthalate	ND	2.4	EPA 8270D	8-29-18	8-31-18	
Di-n-octylphthalate	ND	2.4	EPA 8270D	8-29-18	8-31-18	
Benzo[b]fluoranthene	10	0.48	EPA 8270D	8-29-18	8-31-18	
Benzo(j,k)fluoranthene	2.9	0.48	EPA 8270D	8-29-18	8-31-18	
Benzo[a]pyrene	9.4	0.48	EPA 8270D	8-29-18	8-31-18	
Indeno[1,2,3-cd]pyrene	4.1	0.48	EPA 8270D	8-29-18	8-31-18	
Dibenz[a,h]anthracene	1.4	0.48	EPA 8270D	8-29-18	8-31-18	
Benzo[g,h,i]perylene	4.4	0.48	EPA 8270D	8-29-18	8-31-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>54</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>53</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>67</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>72</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>38 - 108</i>				



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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-10.0-082418					
Laboratory ID:	08-293-03					
n-Nitrosodimethylamine	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Pyridine	ND	2.8	EPA 8270D	8-29-18	8-30-18	
Phenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Aniline	ND	1.4	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2-Chlorophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
1,3-Dichlorobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
1,4-Dichlorobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Benzyl alcohol	ND	1.4	EPA 8270D	8-29-18	8-30-18	
1,2-Dichlorobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.28	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.28	EPA 8270D	8-29-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.28	EPA 8270D	8-29-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Hexachloroethane	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Nitrobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Isophorone	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2-Nitrophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,4-Dimethylphenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,4-Dichlorophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Naphthalene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	1.4	EPA 8270D	8-29-18	8-30-18	
Hexachlorobutadiene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2-Methylnaphthalene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,3-Dichloroaniline	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2-Chloronaphthalene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2-Nitroaniline	ND	0.28	EPA 8270D	8-29-18	8-30-18	
1,4-Dinitrobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Dimethylphthalate	ND	0.28	EPA 8270D	8-29-18	8-30-18	
1,3-Dinitrobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,6-Dinitrotoluene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
1,2-Dinitrobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Acenaphthylene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.28	EPA 8270D	8-29-18	8-30-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-10.0-082418					
Laboratory ID:	08-293-03					
2,4-Dinitrophenol	ND	1.4	EPA 8270D	8-29-18	8-30-18	
Acenaphthene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,4-Dinitrotoluene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Dibenzofuran	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Diethylphthalate	ND	1.4	EPA 8270D	8-29-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.28	EPA 8270D	8-29-18	8-30-18	
4-Nitroaniline	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Fluorene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	1.4	EPA 8270D	8-29-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.28	EPA 8270D	8-29-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.28	EPA 8270D	8-29-18	8-30-18	
4-Bromophenyl-phenylether	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Hexachlorobenzene	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Pentachlorophenol	ND	1.4	EPA 8270D	8-29-18	8-30-18	
Phenanthrene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.28	EPA 8270D	8-29-18	8-30-18	
Di-n-butylphthalate	ND	1.4	EPA 8270D	8-29-18	8-30-18	
Fluoranthene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	2.8	EPA 8270D	8-29-18	8-30-18	
Pyrene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	1.4	EPA 8270D	8-29-18	8-30-18	
bis-2-Ethylhexyladipate	ND	1.4	EPA 8270D	8-29-18	8-30-18	
3,3'-Dichlorobenzidine	ND	1.4	EPA 8270D	8-29-18	8-30-18	
Benzo[a]anthracene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	1.4	EPA 8270D	8-29-18	8-30-18	
Di-n-octylphthalate	ND	1.4	EPA 8270D	8-29-18	8-30-18	
Benzo[b]fluoranthene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.055	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>57</i>	<i>19 - 103</i>				
<i>Phenol-d6</i>	<i>61</i>	<i>30 - 103</i>				
<i>Nitrobenzene-d5</i>	<i>52</i>	<i>27 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>36 - 102</i>				
<i>2,4,6-Tribromophenol</i>	<i>73</i>	<i>33 - 110</i>				
<i>Terphenyl-d14</i>	<i>65</i>	<i>38 - 108</i>				



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-293
 Project: 397-019

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-20.0-082418					
Laboratory ID:	08-293-05					
n-Nitrosodimethylamine	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Pyridine	ND	0.40	EPA 8270D	8-29-18	8-30-18	
Phenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Aniline	ND	0.20	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2-Chlorophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
1,3-Dichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
1,4-Dichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Benzyl alcohol	ND	0.20	EPA 8270D	8-29-18	8-30-18	
1,2-Dichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270D	8-29-18	8-30-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270D	8-29-18	8-30-18	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Hexachloroethane	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Nitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Isophorone	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2-Nitrophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,4-Dimethylphenol	0.091	0.040	EPA 8270D	8-29-18	8-30-18	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,4-Dichlorophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Naphthalene	0.25	0.040	EPA 8270D	8-29-18	8-30-18	
4-Chloroaniline	ND	0.20	EPA 8270D	8-29-18	8-30-18	
Hexachlorobutadiene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2-Methylnaphthalene	0.042	0.040	EPA 8270D	8-29-18	8-30-18	
1-Methylnaphthalene	0.035	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,3-Dichloroaniline	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2-Chloronaphthalene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2-Nitroaniline	ND	0.040	EPA 8270D	8-29-18	8-30-18	
1,4-Dinitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Dimethylphthalate	ND	0.040	EPA 8270D	8-29-18	8-30-18	
1,3-Dinitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,6-Dinitrotoluene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
1,2-Dinitrobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.040	EPA 8270D	8-29-18	8-30-18	



Date of Report: September 5, 2018
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SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-20.0-082418					
Laboratory ID:	08-293-05					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	8-29-18	8-30-18	
Acenaphthene	0.021	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,4-Dinitrotoluene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Dibenzofuran	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Diethylphthalate	ND	0.20	EPA 8270D	8-29-18	8-30-18	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270D	8-29-18	8-30-18	
4-Nitroaniline	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Fluorene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	8-29-18	8-30-18	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270D	8-29-18	8-30-18	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270D	8-29-18	8-30-18	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Hexachlorobenzene	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Pentachlorophenol	ND	0.20	EPA 8270D	8-29-18	8-30-18	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.040	EPA 8270D	8-29-18	8-30-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	8-29-18	8-30-18	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.40	EPA 8270D	8-29-18	8-30-18	
Pyrene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	8-29-18	8-30-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	8-29-18	8-30-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	8-29-18	8-30-18	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	8-29-18	8-30-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	8-29-18	8-30-18	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	51	19 - 103				
Phenol-d6	70	30 - 103				
Nitrobenzene-d5	66	27 - 105				
2-Fluorobiphenyl	72	36 - 102				
2,4,6-Tribromophenol	27	33 - 110				
Terphenyl-d14	74	38 - 108				

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Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-293
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pyridine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Phenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Aniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Benzyl alcohol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	8-29-18	8-29-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachloroethane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Nitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Isophorone	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Chloroaniline	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dimethylphthalate	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
3-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-293
 Project: 397-019

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4-Nitrophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Dibenzofuran	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Diethylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Nitroaniline	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	8-29-18	8-29-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Pentachlorophenol	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Carbazole	ND	0.033	EPA 8270D	8-29-18	8-29-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzidine	ND	0.33	EPA 8270D	8-29-18	8-29-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	8-29-18	8-29-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-29-18	8-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	79	19 - 103				
Phenol-d6	79	30 - 103				
Nitrobenzene-d5	73	27 - 105				
2-Fluorobiphenyl	75	36 - 102				
2,4,6-Tribromophenol	88	33 - 110				
Terphenyl-d14	81	38 - 108				



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-293
 Project: 397-019

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

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	08-229-04										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	1.15	0.989	1.33	1.33	ND	86	74	37 - 94	15	27	
2-Chlorophenol	1.21	1.03	1.33	1.33	ND	91	77	37 - 95	16	32	
1,4-Dichlorobenzene	0.568	0.493	0.667	0.667	ND	85	74	23 - 97	14	37	
n-Nitroso-di-n-propylamine	0.580	0.501	0.667	0.667	ND	87	75	40 - 91	15	28	
1,2,4-Trichlorobenzene	0.563	0.505	0.667	0.667	ND	84	76	37 - 93	11	30	
4-Chloro-3-methylphenol	1.11	1.03	1.33	1.33	ND	83	77	46 - 96	7	25	
Acenaphthene	0.585	0.526	0.667	0.667	0.0395	82	73	43 - 90	11	25	
4-Nitrophenol	1.15	1.03	1.33	1.33	ND	86	77	31 - 104	11	28	
2,4-Dinitrotoluene	0.575	0.516	0.667	0.667	ND	86	77	31 - 96	11	32	
Pentachlorophenol	1.38	1.22	1.33	1.33	ND	104	92	20 - 123	12	29	
Pyrene	0.582	0.518	0.667	0.667	0.0828	75	65	28 - 114	12	35	
<i>Surrogate:</i>											
2-Fluorophenol						85	71	19 - 103			
Phenol-d6						84	73	30 - 103			
Nitrobenzene-d5						72	65	27 - 105			
2-Fluorobiphenyl						77	70	36 - 102			
2,4,6-Tribromophenol						92	84	33 - 110			
Terphenyl-d14						78	71	38 - 108			



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-293
 Project: 397-019

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-10.0-082418					
Laboratory ID:	08-293-03					
Arsenic	ND	17	EPA 6010D	8-28-18	8-31-18	
Barium	200	8.3	EPA 6010D	8-28-18	8-31-18	
Cadmium	ND	1.7	EPA 6010D	8-28-18	8-31-18	
Chromium	29	1.7	EPA 6010D	8-28-18	8-31-18	
Lead	18	17	EPA 6010D	8-28-18	8-31-18	
Mercury	ND	0.83	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	17	EPA 6010D	8-28-18	8-31-18	
Silver	ND	3.3	EPA 6010D	8-28-18	8-31-18	

Client ID:	FMW-133-20.0-082418					
Laboratory ID:	08-293-05					
Arsenic	ND	12	EPA 6010D	8-28-18	8-31-18	
Barium	50	3.0	EPA 6010D	8-28-18	8-31-18	
Cadmium	ND	0.60	EPA 6010D	8-28-18	8-31-18	
Chromium	27	0.60	EPA 6010D	8-28-18	8-31-18	
Lead	ND	6.0	EPA 6010D	8-28-18	8-31-18	
Mercury	ND	0.30	EPA 7471B	8-29-18	8-29-18	
Selenium	ND	12	EPA 6010D	8-28-18	8-31-18	
Silver	ND	1.2	EPA 6010D	8-28-18	8-31-18	



Date of Report: September 5, 2018
 Samples Submitted: August 25, 2018
 Laboratory Reference: 1808-293
 Project: 397-019

**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:	MB0828SM2					
Arsenic	ND	5.0	EPA 6010D	8-28-18	8-29-18	
Barium	ND	2.5	EPA 6010D	8-28-18	8-29-18	
Cadmium	ND	0.50	EPA 6010D	8-28-18	8-29-18	
Chromium	ND	0.50	EPA 6010D	8-28-18	8-28-18	
Lead	ND	5.0	EPA 6010D	8-28-18	8-29-18	
Selenium	ND	5.0	EPA 6010D	8-28-18	8-29-18	
Silver	ND	1.0	EPA 6010D	8-28-18	8-29-18	

Laboratory ID:	MB0829S1					
Mercury	ND	0.25	EPA 7471B	8-29-18	8-29-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-265-16							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	22.1	19.5	NA	NA	NA	13	20	
Cadmium	25.2	23.2	NA	NA	NA	8	20	
Chromium	8.95	7.40	NA	NA	NA	19	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	08-277-03							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	08-265-16									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	111	112	100	100	ND	111	112	75-125	1	20
Barium	141	139	100	100	22.1	119	117	75-125	1	20
Cadmium	75.1	75.9	50.0	50.0	25.2	100	101	75-125	1	20
Chromium	109	108	100	100	8.95	100	99	75-125	1	20
Lead	237	239	250	250	ND	95	95	75-125	1	20
Selenium	104	101	100	100	ND	104	101	75-125	2	20
Silver	25.6	25.4	25.0	25.0	ND	102	102	75-125	1	20

Laboratory ID:	08-277-03									
Mercury	0.534	0.537	0.500	0.500	0.0115	105	105	80-120	1	20



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

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

Date of Report: September 5, 2018
Samples Submitted: August 25, 2018
Laboratory Reference: 1808-293
Project: 397-019

% MOISTURE

Date Analyzed: 8-27&28-18

Client ID	Lab ID	% Moisture
FMW-132-5.0-082418	08-293-02	30
FMW-133-10.0-082418	08-293-03	70
FMW-133-20.0-082418	08-293-05	17





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 _____ (other)

Laboratory Number:

08-293

Company: **Favallen**
 Project Number: **397-019**
 Project Name: **Block 38 West Property**
 Project Manager: **Jarvan Ruark**
 Sampled by: **Greg Peters**

Lab ID: _____ Sample Identification: _____ Date Sampled: _____ Time Sampled: _____ Matrix: _____

Number of Containers		NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
5	5		X	X	X				X										X
5	5		X	X	X				X										X
5	5		X	X	X				X										X
5	5		X	X	X				X										X

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	FMW-132-2.5-082418	8/24/18	1320	Soil
2	FMW-132-5.0-082418		1430	
3	FMW-133-100-082418		1835	
4	FMW-133-050-082418		1849	
5	FMW-133-200-082418		1852	
6	FMW-133-25.0-082418		1902	

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Favallen	8/24/18	0840	<p>Please contact project manager for analyses and turn around time. Contract X-Added 8/27/18. DB (STA)</p>
<i>[Signature]</i>	OnSite	8/25/18	840	

Relinquished _____ Received _____

Relinquished _____ Received _____

Relinquished _____ Received _____

Relinquished _____ Received _____

Reviewed/Date _____ Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 11, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-374

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 31, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 11, 2018
Samples Submitted: August 31, 2018
Laboratory Reference: 1808-374
Project: 397-019

Case Narrative

Samples were collected on August 30, 2018 and received by the laboratory on August 31, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH-Gx Analysis

The gasoline result for sample FMW-134-083018 is mainly attributed to a single peak (Naphthalene).

Volatiles EPA 8260C Analysis

Some MTCA Method A cleanup levels are non-achievable for sample FMW-134-083018 due to the necessary dilution of the sample.

PAHs EPA 8270D/SIM Analysis

The associated method blank had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-083018					
Laboratory ID:	08-374-01					
Gasoline	1100	100	NWTPH-Gx	9-6-18	9-6-18	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	114	66-117				
Client ID:	FMW-133-083018					
Laboratory ID:	08-374-02					
Gasoline	ND	100	NWTPH-Gx	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	112	66-117				
Client ID:	FMW-132-083018					
Laboratory ID:	08-374-03					
Gasoline	ND	100	NWTPH-Gx	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	112	66-117				
Client ID:	FMW-130-083018					
Laboratory ID:	08-374-04					
Gasoline	ND	100	NWTPH-Gx	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	66-117				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0906W3					
Gasoline	ND	100	NWTPH-Gx	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-380-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				112	112	66-117		



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-083018					
Laboratory ID:	08-374-01					
Diesel Range Organics	1.0	0.26	NWTPH-Dx	9-7-18	9-8-18	M
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Client ID:	FMW-133-083018					
Laboratory ID:	08-374-02					
Diesel Range Organics	0.27	0.26	NWTPH-Dx	9-7-18	9-8-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	FMW-132-083018					
Laboratory ID:	08-374-03					
Diesel Range Organics	0.26	0.25	NWTPH-Dx	9-7-18	9-8-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				

Client ID:	FMW-130-083018					
Laboratory ID:	08-374-04					
Diesel Range Organics	ND	0.25	NWTPH-Dx	9-7-18	9-8-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	9-7-18	9-8-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>91</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-374-01							
	ORIG	DUP						
Diesel Range Organics	1.03	1.01	NA	NA	NA	NA	2	NA M
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				100	94	50-150		



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-083018					
Laboratory ID:	08-374-01					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Chloromethane	ND	5.0	EPA 8260C	9-5-18	9-5-18	
Vinyl Chloride	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromomethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Chloroethane	ND	5.0	EPA 8260C	9-5-18	9-5-18	
Trichlorofluoromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Iodomethane	ND	5.0	EPA 8260C	9-5-18	9-5-18	
Methylene Chloride	ND	5.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
2,2-Dichloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromochloromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Chloroform	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Carbon Tetrachloride	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloropropene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Benzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Trichloroethene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Dibromomethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromodichloromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	9-5-18	9-5-18	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Toluene	ND	5.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	9-5-18	9-5-18	



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-083018					
Laboratory ID:	08-374-01					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Tetrachloroethene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,3-Dichloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Dibromochloromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromoethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Chlorobenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Ethylbenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
m,p-Xylene	ND	2.0	EPA 8260C	9-5-18	9-5-18	
o-Xylene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromoform	ND	5.0	EPA 8260C	9-5-18	9-5-18	
Bromobenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
2-Chlorotoluene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
4-Chlorotoluene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	9-5-18	9-5-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Hexachlorobutadiene	ND	5.0	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>78-125</i>				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-083018					
Laboratory ID:	08-374-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Iodomethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Methylene Chloride	ND	2.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroform	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Benzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Trichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Toluene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-083018					
Laboratory ID:	08-374-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	9-5-18	9-5-18	
o-Xylene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromoform	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-083018					
Laboratory ID:	08-374-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Iodomethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Methylene Chloride	ND	2.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroform	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Benzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Trichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Toluene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-083018					
Laboratory ID:	08-374-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	9-5-18	9-5-18	
o-Xylene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromoform	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>78-125</i>				



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 Project: 397-019

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-130-083018					
Laboratory ID:	08-374-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Iodomethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Methylene Chloride	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
(cis) 1,2-Dichloroethene	0.27	0.20	EPA 8260C	9-5-18	9-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroform	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Benzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Trichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Toluene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-130-083018					
Laboratory ID:	08-374-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	9-5-18	9-5-18	
o-Xylene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromoform	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>78-125</i>				



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 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0905W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloromethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Iodomethane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Methylene Chloride	ND	2.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chloroform	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Benzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Trichloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromomethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Toluene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-5-18	9-5-18	



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 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0905W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	9-5-18	9-5-18	
o-Xylene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Bromoform	ND	1.0	EPA 8260C	9-5-18	9-5-18	
Bromobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-5-18	9-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-5-18	9-5-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-5-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>78-125</i>				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0905W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.44	7.44	10.0	10.0	74	74	62-129	0	15	
Benzene	8.58	8.79	10.0	10.0	86	88	77-127	2	15	
Trichloroethene	8.79	8.75	10.0	10.0	88	88	70-120	0	15	
Toluene	9.25	9.39	10.0	10.0	93	94	82-123	2	15	
Chlorobenzene	9.02	9.13	10.0	10.0	90	91	79-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					105	107	75-127			
Toluene-d8					105	104	80-127			
4-Bromofluorobenzene					85	86	78-125			



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-083018					
Laboratory ID:	08-374-01					
Naphthalene	290	9.9	EPA 8270D/SIM	9-4-18	9-5-18	
2-Methylnaphthalene	12	2.0	EPA 8270D/SIM	9-4-18	9-5-18	
1-Methylnaphthalene	10	2.0	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthylene	0.12	0.099	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthene	8.3	2.0	EPA 8270D/SIM	9-4-18	9-5-18	
Fluorene	1.6	0.099	EPA 8270D/SIM	9-4-18	9-5-18	
Phenanthrene	0.48	0.099	EPA 8270D/SIM	9-4-18	9-5-18	
Anthracene	ND	0.099	EPA 8270D/SIM	9-4-18	9-5-18	
Fluoranthene	ND	0.099	EPA 8270D/SIM	9-4-18	9-5-18	
Pyrene	ND	0.099	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]anthracene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
Chrysene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[b]fluoranthene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo(j,k)fluoranthene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]pyrene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
Dibenz[a,h]anthracene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[g,h,i]perylene	ND	0.0099	EPA 8270D/SIM	9-4-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>73</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>32 - 137</i>				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-083018					
Laboratory ID:	08-374-02					
Naphthalene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
2-Methylnaphthalene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
1-Methylnaphthalene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthylene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthene	0.38	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Fluorene	0.098	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Phenanthrene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Anthracene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Fluoranthene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Pyrene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]anthracene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Chrysene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo(j,k)fluoranthene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]pyrene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>78</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>89</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>89</i>	<i>32 - 137</i>				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-083018					
Laboratory ID:	08-374-03					
Naphthalene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
2-Methylnaphthalene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
1-Methylnaphthalene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthylene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthene	0.40	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Fluorene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Phenanthrene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Anthracene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Fluoranthene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Pyrene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]anthracene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Chrysene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]pyrene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>84</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>32 - 137</i>				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-130-083018					
Laboratory ID:	08-374-04					
Naphthalene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
2-Methylnaphthalene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
1-Methylnaphthalene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthylene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Fluorene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Phenanthrene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Anthracene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Fluoranthene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Pyrene	ND	0.097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]anthracene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Chrysene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo(j,k)fluoranthene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]pyrene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270D/SIM	9-4-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>85</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>32 - 137</i>				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0904W1					
Naphthalene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Fluorene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Anthracene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Pyrene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Chrysene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	115	21 - 110				Q
Pyrene-d10	88	19 - 111				
Terphenyl-d14	117	32 - 137				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-374
 Project: 397-019

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0904W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.343	0.271	0.500	0.500	69	54	28 - 109	23	38	
Acenaphthylene	0.384	0.320	0.500	0.500	77	64	37 - 111	18	26	
Acenaphthene	0.375	0.304	0.500	0.500	75	61	41 - 113	21	33	
Fluorene	0.366	0.339	0.500	0.500	73	68	47 - 114	8	23	
Phenanthrene	0.363	0.339	0.500	0.500	73	68	50 - 113	7	18	
Anthracene	0.380	0.362	0.500	0.500	76	72	50 - 117	5	18	
Fluoranthene	0.396	0.381	0.500	0.500	79	76	52 - 120	4	15	
Pyrene	0.395	0.381	0.500	0.500	79	76	51 - 128	4	31	
Benzo[a]anthracene	0.428	0.413	0.500	0.500	86	83	57 - 127	4	15	
Chrysene	0.414	0.413	0.500	0.500	83	83	51 - 120	0	15	
Benzo[b]fluoranthene	0.412	0.402	0.500	0.500	82	80	54 - 124	2	17	
Benzo(j,k)fluoranthene	0.426	0.418	0.500	0.500	85	84	50 - 127	2	18	
Benzo[a]pyrene	0.414	0.398	0.500	0.500	83	80	50 - 120	4	16	
Indeno(1,2,3-c,d)pyrene	0.407	0.390	0.500	0.500	81	78	46 - 132	4	20	
Dibenz[a,h]anthracene	0.416	0.403	0.500	0.500	83	81	49 - 129	3	18	
Benzo[g,h,i]perylene	0.412	0.402	0.500	0.500	82	80	45 - 130	2	19	
<i>Surrogate:</i>										
2-Fluorobiphenyl					69	56	21 - 110			
Pyrene-d10					79	78	19 - 111			
Terphenyl-d14					79	77	32 - 137			





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 - The gasoline result is mainly attributed to a single peak (Naphthalene).

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





Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 833-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **08-374**

Company: Favallan

Project Number: 37-019

Project Name: Block 38 West

Project Manager: Dawn Knuckle

Sampled by: Greg Peters

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	Fmw-134-083018	8/30/18	1034	Water
2	Fmw-133-083018		1819	U
3	Fmw-132-083018		1707	U
4	Fmw-130-083018		1347	U

Number of Containers		Laboratory Number: 08-374											
NWTPH-HCID													
NWTPH-Gx/BTEX		X											
NWTPH-Gx													
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)		X											
Volatiles 8260C													
Halogenated Volatiles 8260C		X											
EDB EPA 8011 (Waters Only)													
Semivolatiles 8270D/SIM (with low-level PAHs)													
PAHs 8270D/SIM (low-level)		X											
PCBs 8082A													
Organochlorine Pesticides 8081B													
Organophosphorus Pesticides 8270D/SIM													
Chlorinated Acid Herbicides 8151A													
Total RCRA Metals													
Total MTCA Metals													
TCLP Metals													
HEM (oil and grease) 1664A													
% Moisture													

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Favallan</u>	<u>8/30/18</u>	<u>1834</u>	<u>Please Contact Project Manager for Sample analysis and turnaround time. X-Added 9/14/18, DS (STA)</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>8/31/18</u>	<u>1015</u>	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

September 11, 2018

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1808-375

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 31, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: September 11, 2018
Samples Submitted: August 31, 2018
Laboratory Reference: 1808-375
Project: 397-019

Case Narrative

Samples were collected on August 30, 2018 and received by the laboratory on August 31, 2018. 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.

PAHs EPA 8270D/SIM Analysis

The associated method blank had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

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



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-375
 Project: 397-019

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-083018					
Laboratory ID:	08-375-01					
Gasoline	ND	100	NWTPH-Gx	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	110	66-117				
Client ID:	FMW-136-083018					
Laboratory ID:	08-375-02					
Gasoline	ND	100	NWTPH-Gx	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	110	66-117				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-375
 Project: 397-019

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0906W3					
Gasoline	ND	100	NWTPH-Gx	9-6-18	9-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	111	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-380-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				112	112	66-117		



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-375
 Project: 397-019

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-083018					
Laboratory ID:	08-375-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	9-7-18	9-8-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	FMW-136-083018					
Laboratory ID:	08-375-02					
Diesel Range Organics	ND	0.25	NWTPH-Dx	9-7-18	9-8-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-375
 Project: 397-019

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	9-7-18	9-8-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	9-7-18	9-8-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>91</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-374-01							
	ORIG	DUP						
Diesel Range Organics	1.03	1.01	NA	NA	NA	NA	2	NA M
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				100	94	50-150		



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-375
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-083018					
Laboratory ID:	08-375-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloromethane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Vinyl Chloride	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromomethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloroethane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Iodomethane	ND	1.5	EPA 8260C	9-10-18	9-10-18	
Methylene Chloride	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromochloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloroform	0.41	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Benzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Trichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Dibromomethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromodichloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Toluene	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-083018					
Laboratory ID:	08-375-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Tetrachloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Dibromochloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Ethylbenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
m,p-Xylene	ND	0.40	EPA 8260C	9-10-18	9-10-18	
o-Xylene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromoform	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Bromobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-10-18	9-10-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>78-125</i>				



Date of Report: September 11, 2018
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 Project: 397-019

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-083018					
Laboratory ID:	08-375-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloromethane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Vinyl Chloride	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromomethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloroethane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Iodomethane	ND	1.5	EPA 8260C	9-10-18	9-10-18	
Methylene Chloride	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
(cis) 1,2-Dichloroethene	0.36	0.20	EPA 8260C	9-10-18	9-10-18	
Bromochloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloroform	2.7	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Benzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Trichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Dibromomethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromodichloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Toluene	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-083018					
Laboratory ID:	08-375-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Tetrachloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Dibromochloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Ethylbenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
m,p-Xylene	ND	0.40	EPA 8260C	9-10-18	9-10-18	
o-Xylene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromoform	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Bromobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-10-18	9-10-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>78-125</i>				



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 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0910W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloromethane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Vinyl Chloride	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromomethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloroethane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Iodomethane	ND	1.5	EPA 8260C	9-10-18	9-10-18	
Methylene Chloride	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromochloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chloroform	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Benzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Trichloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Dibromomethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromodichloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Toluene	ND	1.0	EPA 8260C	9-10-18	9-10-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-10-18	9-10-18	



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 Laboratory Reference: 1808-375
 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0910W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Tetrachloroethene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Dibromochloromethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Chlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Ethylbenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
m,p-Xylene	ND	0.40	EPA 8260C	9-10-18	9-10-18	
o-Xylene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Bromoform	ND	1.0	EPA 8260C	9-10-18	9-10-18	
Bromobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-10-18	9-10-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-10-18	9-10-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	9-10-18	9-10-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-10-18	9-10-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>78-125</i>				



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 Laboratory Reference: 1808-375
 Project: 397-019

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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0910W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.2	9.81	10.0	10.0	102	98	62-129	4	15	
Benzene	9.94	9.63	10.0	10.0	99	96	77-127	3	15	
Trichloroethene	9.86	9.35	10.0	10.0	99	94	70-120	5	15	
Toluene	10.2	9.78	10.0	10.0	102	98	82-123	4	15	
Chlorobenzene	9.76	9.14	10.0	10.0	98	91	79-120	7	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					109	111	75-127			
<i>Toluene-d8</i>					107	107	80-127			
<i>4-Bromofluorobenzene</i>					86	85	78-125			



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 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-083018					
Laboratory ID:	08-375-01					
Naphthalene	0.35	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
2-Methylnaphthalene	0.29	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
1-Methylnaphthalene	0.68	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthylene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthene	0.39	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Fluorene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Phenanthrene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Anthracene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Fluoranthene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Pyrene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]anthracene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Chrysene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]pyrene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>50</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>62</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>62</i>	<i>32 - 137</i>				



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 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-083018					
Laboratory ID:	08-375-02					
Naphthalene	0.39	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
2-Methylnaphthalene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
1-Methylnaphthalene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthylene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Acenaphthene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Fluorene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Phenanthrene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Anthracene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Fluoranthene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Pyrene	ND	0.096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]anthracene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Chrysene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[a]pyrene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Indeno(1,2,3-c,d)pyrene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270D/SIM	9-4-18	9-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>83</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>84</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>32 - 137</i>				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-375
 Project: 397-019

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0904W1					
Naphthalene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Fluorene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Anthracene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Pyrene	ND	0.10	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Chrysene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	9-4-18	9-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	115	21 - 110				Q
Pyrene-d10	88	19 - 111				
Terphenyl-d14	117	32 - 137				



Date of Report: September 11, 2018
 Samples Submitted: August 31, 2018
 Laboratory Reference: 1808-375
 Project: 397-019

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0904W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.343	0.271	0.500	0.500	69	54	28 - 109	23	38	
Acenaphthylene	0.384	0.320	0.500	0.500	77	64	37 - 111	18	26	
Acenaphthene	0.375	0.304	0.500	0.500	75	61	41 - 113	21	33	
Fluorene	0.366	0.339	0.500	0.500	73	68	47 - 114	8	23	
Phenanthrene	0.363	0.339	0.500	0.500	73	68	50 - 113	7	18	
Anthracene	0.380	0.362	0.500	0.500	76	72	50 - 117	5	18	
Fluoranthene	0.396	0.381	0.500	0.500	79	76	52 - 120	4	15	
Pyrene	0.395	0.381	0.500	0.500	79	76	51 - 128	4	31	
Benzo[a]anthracene	0.428	0.413	0.500	0.500	86	83	57 - 127	4	15	
Chrysene	0.414	0.413	0.500	0.500	83	83	51 - 120	0	15	
Benzo[b]fluoranthene	0.412	0.402	0.500	0.500	82	80	54 - 124	2	17	
Benzo(j,k)fluoranthene	0.426	0.418	0.500	0.500	85	84	50 - 127	2	18	
Benzo[a]pyrene	0.414	0.398	0.500	0.500	83	80	50 - 120	4	16	
Indeno(1,2,3-c,d)pyrene	0.407	0.390	0.500	0.500	81	78	46 - 132	4	20	
Dibenz[a,h]anthracene	0.416	0.403	0.500	0.500	83	81	49 - 129	3	18	
Benzo[g,h,i]perylene	0.412	0.402	0.500	0.500	82	80	45 - 130	2	19	
<i>Surrogate:</i>										
2-Fluorobiphenyl					69	56	21 - 110			
Pyrene-d10					79	78	19 - 111			
Terphenyl-d14					79	77	32 - 137			





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request
(In working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Company: **Favallan**
 Project Number: **397-019**
 Project Name: **Block 38 West**
 Project Manager: **Jovan Kneale**
 Sampled by: **Greg Roberts**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	Fmw-125 - 083018	8/30/18	1545	Water II	11
2	Fmw-136-083018	8/30/18	1151	Water II	11

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C + BTEX	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	Fmw-125 - 083018	8/30/18	1545	Water II	11	X	X	X	X	X	X	X	X	X										
2	Fmw-136-083018	8/30/18	1151	Water II	11	X	X	X	X	X	X	X	X	X										

Laboratory Number: **08-375**

Signature	Company	Date	Time	Comments/Special Instructions
	Favallan	8/30/18	1839	Project Contact Project
	OBE	8/31/18	1015	Always for sample analysis and turnaround time 11.

Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 7, 2019

Rob Leet
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-061
Laboratory Reference No. 1812-266

Dear Rob:

Enclosed are the analytical results and associated quality control data for samples submitted on December 31, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 7, 2019
Samples Submitted: December 31, 2018
Laboratory Reference: 1812-266
Project: 397-061

Case Narrative

Samples were collected on December 28, 2018 and received by the laboratory on December 31, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: January 7, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-266
 Project: 397-061

VOLATILE ORGANICS EPA 8260C

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW137-122818					
Laboratory ID:	12-266-01					
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	1.1	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: January 7, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-266
 Project: 397-061

VOLATILE ORGANICS EPA 8260C

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW138-122818					
Laboratory ID:	12-266-02					
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	0.34	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: January 7, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-266
 Project: 397-061

**VOLATILE ORGANICS EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0104W1					
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	75-127				
<i>Toluene-d8</i>	101	80-127				
<i>4-Bromofluorobenzene</i>	103	78-125				



Date of Report: January 7, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-266
 Project: 397-061

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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0104W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.38	8.96	10.0	10.0	94	90	62-129	5	15	
Benzene	8.81	8.40	10.0	10.0	88	84	77-127	5	15	
Trichloroethene	9.49	8.88	10.0	10.0	95	89	70-120	7	15	
Toluene	9.23	8.71	10.0	10.0	92	87	82-123	6	15	
Chlorobenzene	9.40	8.93	10.0	10.0	94	89	79-120	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					95	95	75-127			
Toluene-d8					102	100	80-127			
4-Bromofluorobenzene					101	101	78-125			





Data Qualifiers and Abbreviations

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





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

January 9, 2019

Rob Leet
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1812-267

Dear Rob:

Enclosed are the analytical results and associated quality control data for samples submitted on December 31, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 9, 2019
Samples Submitted: December 31, 2018
Laboratory Reference: 1812-267
Project: 397-019

Case Narrative

Samples were collected on December 28, 2018 and received by the laboratory on December 31, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: January 9, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-267
 Project: 397-019

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW130-122818					
Laboratory ID:	12-267-01					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	66-117				
Client ID:	FMW132-122818					
Laboratory ID:	12-267-02					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	66-117				
Client ID:	FMW133-122818					
Laboratory ID:	12-267-03					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	66-117				
Client ID:	FMW134-122818					
Laboratory ID:	12-267-04					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	66-117				
Client ID:	FMW135-122818					
Laboratory ID:	12-267-05					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	66-117				
Client ID:	FMW136-122818					
Laboratory ID:	12-267-06					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	66-117				



Date of Report: January 9, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-267
 Project: 397-019

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW500-122818					
Laboratory ID:	12-267-07					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>83</i>	<i>66-117</i>				



Date of Report: January 9, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-267
 Project: 397-019

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0102W1					
Gasoline	ND	100	NWTPH-Gx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>84</i>	<i>66-117</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-267-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				<i>82</i>	<i>81</i>	<i>66-117</i>		



Date of Report: January 9, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-267
 Project: 397-019

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW130-122818					
Laboratory ID:	12-267-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

Client ID:	FMW132-122818					
Laboratory ID:	12-267-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	FMW133-122818					
Laboratory ID:	12-267-03					
Diesel Range Organics	0.31	0.26	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				

Client ID:	FMW134-122818					
Laboratory ID:	12-267-04					
Diesel Range Organics	0.56	0.26	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				

Client ID:	FMW135-122818					
Laboratory ID:	12-267-05					
Diesel Range Organics	0.37	0.26	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	FMW136-122818					
Laboratory ID:	12-267-06					
Diesel Range Organics	ND	0.26	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW500-122818					
Laboratory ID:	12-267-07					
Diesel Range Organics	0.68	0.26	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	0.49	0.41	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>89</i>	<i>50-150</i>				



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 Laboratory Reference: 1812-267
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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0102W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	1-2-19	1-2-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>82</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-267-07							
	ORIG	DUP						
Diesel Range Organics	0.675	0.593	NA	NA	NA	NA	13	NA
Lube Oil Range Organics	0.487	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>89</i>	<i>88</i>	<i>50-150</i>		



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW130-122818					
Laboratory ID:	12-267-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	0.22	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW130-122818					
Laboratory ID:	12-267-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW132-122818					
Laboratory ID:	12-267-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW132-122818					
Laboratory ID:	12-267-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW133-122818					
Laboratory ID:	12-267-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW133-122818					
Laboratory ID:	12-267-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW134-122818					
Laboratory ID:	12-267-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW134-122818					
Laboratory ID:	12-267-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW135-122818					
Laboratory ID:	12-267-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW135-122818					
Laboratory ID:	12-267-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW136-122818					
Laboratory ID:	12-267-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	0.35	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW136-122818					
Laboratory ID:	12-267-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW500-122818					
Laboratory ID:	12-267-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW500-122818					
Laboratory ID:	12-267-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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 Samples Submitted: December 31, 2018
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 Project: 397-019

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0104W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloromethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Vinyl Chloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Iodomethane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Methylene Chloride	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chloroform	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Benzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Trichloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromomethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromodichloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Toluene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-4-19	1-4-19	



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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0104W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Tetrachloroethene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Dibromochloromethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Chlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Ethylbenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
m,p-Xylene	ND	0.40	EPA 8260C	1-4-19	1-4-19	
o-Xylene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Bromoform	ND	1.0	EPA 8260C	1-4-19	1-4-19	
Bromobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-4-19	1-4-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	1-4-19	1-4-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-4-19	1-4-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0104W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.38	8.96	10.0	10.0	94	90	62-129	5	15	
Benzene	8.81	8.40	10.0	10.0	88	84	77-127	5	15	
Trichloroethene	9.49	8.88	10.0	10.0	95	89	70-120	7	15	
Toluene	9.23	8.71	10.0	10.0	92	87	82-123	6	15	
Chlorobenzene	9.40	8.93	10.0	10.0	94	89	79-120	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					95	95	75-127			
Toluene-d8					102	100	80-127			
4-Bromofluorobenzene					101	101	78-125			



Date of Report: January 9, 2019
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PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW130-122818					
Laboratory ID:	12-267-01					
Naphthalene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
2-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>48</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>58</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>56</i>	<i>32 - 137</i>				



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 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-267
 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW132-122818					
Laboratory ID:	12-267-02					
Naphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	0.29	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>61</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>65</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>64</i>	<i>32 - 137</i>				



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 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW133-122818					
Laboratory ID:	12-267-03					
Naphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	0.33	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>59</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>58</i>	<i>32 - 137</i>				



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PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW134-122818					
Laboratory ID:	12-267-04					
Naphthalene	23	1.1	EPA 8270D/SIM	1-2-19	1-3-19	
2-Methylnaphthalene	0.77	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	0.67	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	0.71	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.11	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.011	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>60</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>62</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>32 - 137</i>				



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PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW135-122818					
Laboratory ID:	12-267-05					
Naphthalene	ND	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
2-Methylnaphthalene	0.11	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	0.45	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	0.33	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	ND	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.099	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.0099	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>51</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>57</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>56</i>	<i>32 - 137</i>				



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 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW136-122818					
Laboratory ID:	12-267-06					
Naphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>49</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>61</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>58</i>	<i>32 - 137</i>				



Date of Report: January 9, 2019
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 Laboratory Reference: 1812-267
 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW500-122818					
Laboratory ID:	12-267-07					
Naphthalene	62	2.1	EPA 8270D/SIM	1-2-19	1-3-19	
2-Methylnaphthalene	2.3	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	1.7	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	1.6	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	0.15	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>50</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>58</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>56</i>	<i>32 - 137</i>				



Date of Report: January 9, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-267
 Project: 397-019

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0102W2					
Naphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Acenaphthene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluorene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Phenanthrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Anthracene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Fluoranthene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Pyrene	ND	0.10	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Chrysene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	1-2-19	1-2-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>50</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>63</i>	<i>32 - 137</i>				



Date of Report: January 9, 2019
 Samples Submitted: December 31, 2018
 Laboratory Reference: 1812-267
 Project: 397-019

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0102W2									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.279	0.245	0.500	0.500	56	49	28 - 109	13	38	
Acenaphthylene	0.362	0.354	0.500	0.500	72	71	37 - 111	2	26	
Acenaphthene	0.375	0.322	0.500	0.500	75	64	41 - 113	15	33	
Fluorene	0.352	0.322	0.500	0.500	70	64	47 - 114	9	23	
Phenanthrene	0.375	0.345	0.500	0.500	75	69	50 - 113	8	18	
Anthracene	0.370	0.347	0.500	0.500	74	69	50 - 117	6	18	
Fluoranthene	0.393	0.363	0.500	0.500	79	73	52 - 120	8	15	
Pyrene	0.364	0.335	0.500	0.500	73	67	51 - 128	8	31	
Benzo[a]anthracene	0.405	0.376	0.500	0.500	81	75	57 - 127	7	15	
Chrysene	0.386	0.357	0.500	0.500	77	71	51 - 120	8	15	
Benzo[b]fluoranthene	0.402	0.361	0.500	0.500	80	72	54 - 124	11	17	
Benzo(j,k)fluoranthene	0.413	0.367	0.500	0.500	83	73	50 - 127	12	18	
Benzo[a]pyrene	0.419	0.384	0.500	0.500	84	77	50 - 120	9	16	
Indeno(1,2,3-c,d)pyrene	0.418	0.375	0.500	0.500	84	75	46 - 132	11	20	
Dibenz[a,h]anthracene	0.411	0.368	0.500	0.500	82	74	49 - 129	11	18	
Benzo[g,h,i]perylene	0.396	0.360	0.500	0.500	79	72	45 - 130	10	19	
<i>Surrogate:</i>										
2-Fluorobiphenyl					52	48	21 - 110			
Pyrene-d10					69	63	19 - 111			
Terphenyl-d14					67	60	32 - 137			





Data Qualifiers and Abbreviations

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





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

January 29, 2019

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1901-097

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on January 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 "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 29, 2019
Samples Submitted: January 14, 2019
Laboratory Reference: 1901-097
Project: 397-019

Case Narrative

Samples were collected on January 12, 2019 and received by the laboratory on January 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.

NWTPH-Gx Analysis

Method 5035A VOA vials were not provided for sample PH-13-3.0-011219. The sample was therefore extracted from a 4-ounce jar for analysis. Some loss of volatiles may have occurred.

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



Date of Report: January 29, 2019
 Samples Submitted: January 14, 2019
 Laboratory Reference: 1901-097
 Project: 397-019

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PH-13-3.0-011219					
Laboratory ID:	01-097-01					
Gasoline	ND	6.4	NWTPH-Gx	1-22-19	1-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	72	57-129				



Date of Report: January 29, 2019
 Samples Submitted: January 14, 2019
 Laboratory Reference: 1901-097
 Project: 397-019

**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:	MB0122S1					
Gasoline	ND	5.0	NWTPH-Gx	1-22-19	1-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	68	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-102-01							
	ORIG	DUP						
Gasoline	51.5	51.4	NA	NA	NA	NA	0	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>			61	60	57-129			



Date of Report: January 29, 2019
 Samples Submitted: January 14, 2019
 Laboratory Reference: 1901-097
 Project: 397-019

**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:	PH-13-3.0-011219					
Laboratory ID:	01-097-01					
Diesel Range Organics	ND	29	NWTPH-Dx	1-23-19	1-23-19	
Lube Oil Range Organics	ND	59	NWTPH-Dx	1-23-19	1-23-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				



Date of Report: January 29, 2019
 Samples Submitted: January 14, 2019
 Laboratory Reference: 1901-097
 Project: 397-019

**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:	MB0123S2					
Diesel Range Organics	ND	25	NWTPH-Dx	1-23-19	1-23-19	
Lube Oil Range Organics	ND	50	NWTPH-Dx	1-23-19	1-23-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>102</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-144-11							
	ORIG	DUP						
Diesel Range Organics	130	38.3	NA	NA	NA	NA	109	NA N
Lube Oil Range Organics	792	280	NA	NA	NA	NA	96	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>108</i>	<i>107</i>	<i>50-150</i>		



Date of Report: January 29, 2019
 Samples Submitted: January 14, 2019
 Laboratory Reference: 1901-097
 Project: 397-019

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PH-13-3.0-011219					
Laboratory ID:	01-097-01					
Benzo[a]anthracene	ND	0.0078	EPA 8270D/SIM	1-24-19	1-24-19	
Chrysene	ND	0.0078	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[a]pyrene	ND	0.0078	EPA 8270D/SIM	1-24-19	1-24-19	
Indeno(1,2,3-c,d)pyrene	ND	0.0078	EPA 8270D/SIM	1-24-19	1-24-19	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270D/SIM	1-24-19	1-24-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>55</i>	<i>40 - 117</i>				
<i>Pyrene-d10</i>	<i>70</i>	<i>38 - 119</i>				
<i>Terphenyl-d14</i>	<i>61</i>	<i>47 - 135</i>				



Date of Report: January 29, 2019
 Samples Submitted: January 14, 2019
 Laboratory Reference: 1901-097
 Project: 397-019

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0124S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Chrysene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>40 - 117</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>38 - 119</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>47 - 135</i>				



Date of Report: January 29, 2019
 Samples Submitted: January 14, 2019
 Laboratory Reference: 1901-097
 Project: 397-019

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0124S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	0.0769	0.0752	0.0833	0.0833	92	90	64 - 132	2	15	
Chrysene	0.0629	0.0616	0.0833	0.0833	76	74	64 - 127	2	15	
Benzo[b]fluoranthene	0.0695	0.0720	0.0833	0.0833	83	86	57 - 128	4	15	
Benzo(j,k)fluoranthene	0.0669	0.0619	0.0833	0.0833	80	74	62 - 130	8	15	
Benzo[a]pyrene	0.0750	0.0746	0.0833	0.0833	90	90	62 - 125	1	15	
Indeno(1,2,3-c,d)pyrene	0.0734	0.0718	0.0833	0.0833	88	86	55 - 130	2	15	
Dibenz[a,h]anthracene	0.0684	0.0665	0.0833	0.0833	82	80	58 - 129	3	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					57	67	40 - 117			
Pyrene-d10					76	74	38 - 119			
Terphenyl-d14					68	65	47 - 135			



Date of Report: January 29, 2019
Samples Submitted: January 14, 2019
Laboratory Reference: 1901-097
Project: 397-019

% MOISTURE

Date Analyzed: 1-23-19

Client ID	Lab ID	% Moisture
PH-13-3.0-011219	01-097-01	15





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other) _____

Laboratory Number: **01-097**

Company: Farellon
 Project Number: 397-019
 Project Name: 397-019
 Project Manager: Taven Kruke
 Sampled by: Y. Pehlivan

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	PH-13-3.0-01229	1/12/19	0935	S	1

<input type="checkbox"/>	NWTPH-HCID	
<input type="checkbox"/>	NWTPH-Gx/BTEX	
<input checked="" type="checkbox"/>	NWTPH-Gx	
<input checked="" type="checkbox"/>	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
<input type="checkbox"/>	Volatiles 8260C	
<input type="checkbox"/>	Halogenated Volatiles 8260C	
<input type="checkbox"/>	EDB EPA 8011 (Waters Only)	
<input checked="" type="checkbox"/>	Semivolatiles 8270D/SIM (with low-level PAHs) CPAH	
<input checked="" type="checkbox"/>	PAHs 8270D/SIM (low-level) CPAHs only	
<input type="checkbox"/>	PCBs 8082A	
<input type="checkbox"/>	Organochlorine Pesticides 8081B	
<input type="checkbox"/>	Organophosphorus Pesticides 8270D/SIM	
<input type="checkbox"/>	Chlorinated Acid Herbicides 8151A	
<input type="checkbox"/>	Total RCRA Metals	
<input type="checkbox"/>	Total MTCA Metals	
<input type="checkbox"/>	TCLP Metals	
<input checked="" type="checkbox"/>	HEM (oil and grease) 1664A HOLD	
<input checked="" type="checkbox"/>	% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
	Farellon	1/14/19	0830	HOLD all samples for will contact for analyses.
	OSE	1/14/19	0830	X Added 1/22/19. DR. (SSO.GAT)

Received _____ Relinquished _____
 Received _____ Relinquished _____
 Received _____ Relinquished _____
 Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

January 30, 2019

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1901-158

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on January 21, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: January 30, 2019
Samples Submitted: January 21, 2019
Laboratory Reference: 1901-158
Project: 397-019

Case Narrative

Samples were collected on January 19, 2019 and received by the laboratory on January 21, 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.

NWTPH-Gx Analysis

Method 5035A VOA vials were not provided for sample PH-11A-4.0-011919. The sample was therefore extracted from a 4-ounce jar for analysis. Some loss of volatiles may have occurred.

PAHs EPA 8270D/SIM Analysis

Sample PH-11A-4.0-011919 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PH-12-4.0-011919					
Laboratory ID:	01-158-01					
Gasoline	2100	160	NWTPH-Gx	1-28-19	1-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	105	57-129				
Client ID:	PH-11A-4.0-011919					
Laboratory ID:	01-158-02					
Gasoline	ND	20	NWTPH-Gx	1-22-19	1-22-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	74	57-129				



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

**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:	MB0122S1					
Gasoline	ND	5.0	NWTPH-Gx	1-22-19	1-22-19	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	68	57-129				
Laboratory ID:	MB0128S1					
Gasoline	ND	5.0	NWTPH-Gx	1-28-19	1-28-19	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	98	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags	
DUPLICATE									
Laboratory ID:	01-102-01								
	ORIG	DUP							
Gasoline	51.5	51.4	NA	NA	NA	NA	0	30	
Surrogate:									
Fluorobenzene					61	60	57-129		
Laboratory ID:	01-158-01								
	ORIG	DUP							
Gasoline	1500	1450	NA	NA	NA	NA	3	30	
Surrogate:									
Fluorobenzene					105	92	57-129		



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

**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:	PH-12-4.0-011919					
Laboratory ID:	01-158-01					
Diesel Range Organics	9400	1800	NWTPH-Dx	1-23-19	1-28-19	N,M
Lube Oil Range Organics	21000	3600	NWTPH-Dx	1-23-19	1-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S

Client ID:	PH-11A-4.0-011919					
Laboratory ID:	01-158-02					
Diesel Range Organics	520	62	NWTPH-Dx	1-23-19	1-24-19	N
Lube Oil Range Organics	1100	120	NWTPH-Dx	1-23-19	1-24-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	50	50-150				



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

**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:	MB0123S2					
Diesel Range Organics	ND	25	NWTPH-Dx	1-23-19	1-23-19	
Lube Oil Range Organics	ND	50	NWTPH-Dx	1-23-19	1-23-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-144-11							
	ORIG	DUP						
Diesel Range Organics	130	38.3	NA	NA	NA	NA	109	NA N
Lube Oil	792	280	NA	NA	NA	NA	96	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				108	107	50-150		



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PH-12-4.0-011919					
Laboratory ID:	01-158-01					
Benzo[a]anthracene	110	3.8	EPA 8270D/SIM	1-24-19	1-28-19	
Chrysene	110	3.8	EPA 8270D/SIM	1-24-19	1-28-19	
Benzo[b]fluoranthene	100	3.8	EPA 8270D/SIM	1-24-19	1-28-19	
Benzo(j,k)fluoranthene	31	3.8	EPA 8270D/SIM	1-24-19	1-28-19	
Benzo[a]pyrene	120	3.8	EPA 8270D/SIM	1-24-19	1-28-19	
Indeno(1,2,3-c,d)pyrene	63	3.8	EPA 8270D/SIM	1-24-19	1-28-19	
Dibenz[a,h]anthracene	9.9	3.8	EPA 8270D/SIM	1-24-19	1-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>63</i>	<i>40 - 117</i>				
<i>Pyrene-d10</i>	<i>91</i>	<i>38 - 119</i>				
<i>Terphenyl-d14</i>	<i>92</i>	<i>47 - 135</i>				



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PH-11A-4.0-011919					
Laboratory ID:	01-158-02					
Benzo[a]anthracene	0.25	0.016	EPA 8270D/SIM	1-24-19	1-24-19	
Chrysene	0.26	0.016	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[b]fluoranthene	0.31	0.016	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo(j,k)fluoranthene	0.081	0.016	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[a]pyrene	0.30	0.016	EPA 8270D/SIM	1-24-19	1-24-19	
Indeno(1,2,3-c,d)pyrene	0.20	0.016	EPA 8270D/SIM	1-24-19	1-24-19	
Dibenz[a,h]anthracene	0.031	0.016	EPA 8270D/SIM	1-24-19	1-24-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>49</i>	<i>40 - 117</i>				
<i>Pyrene-d10</i>	<i>52</i>	<i>38 - 119</i>				
<i>Terphenyl-d14</i>	<i>45</i>	<i>47 - 135</i>				Q



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0124S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Chrysene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	1-24-19	1-24-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>40 - 117</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>38 - 119</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>47 - 135</i>				



Date of Report: January 30, 2019
 Samples Submitted: January 21, 2019
 Laboratory Reference: 1901-158
 Project: 397-019

**cPAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0124S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	0.0769	0.0752	0.0833	0.0833	92	90	64 - 132	2	15	
Chrysene	0.0629	0.0616	0.0833	0.0833	76	74	64 - 127	2	15	
Benzo[b]fluoranthene	0.0695	0.0720	0.0833	0.0833	83	86	57 - 128	4	15	
Benzo(j,k)fluoranthene	0.0669	0.0619	0.0833	0.0833	80	74	62 - 130	8	15	
Benzo[a]pyrene	0.0750	0.0746	0.0833	0.0833	90	90	62 - 125	1	15	
Indeno(1,2,3-c,d)pyrene	0.0734	0.0718	0.0833	0.0833	88	86	55 - 130	2	15	
Dibenz[a,h]anthracene	0.0684	0.0665	0.0833	0.0833	82	80	58 - 129	3	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					57	67	40 - 117			
Pyrene-d10					76	74	38 - 119			
Terphenyl-d14					68	65	47 - 135			



Date of Report: January 30, 2019
Samples Submitted: January 21, 2019
Laboratory Reference: 1901-158
Project: 397-019

% MOISTURE

Date Analyzed: 1-22-19

Client ID	Lab ID	% Moisture
PH-12-4.0-011919	01-158-01	30
PH-11A-4.0-011919	01-158-02	59





Data Qualifiers and Abbreviations

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





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

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

(other) _____

Laboratory Number:

01-158

Company: Faallon
 Project Number: 397-019
 Project Name: 397-019
 Project Manager: Jayson Ruark
 Sampled by: V. Pellmar

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	PH-12-4.0-01919	1/19/19	0940	S	2
2	PH-11A-4.0-01919	1/19/19	1304	S	1

Date	Time	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1/19/19	0830			X	X					X	X									X
1/19/19	0830			X	X					X	X									X

Signature	Company	Date	Time	Comments/Special Instructions
	Faallon	1/19/19	0830	Hold samples for contact for analysis
	OSE	1/22/19	0830	Added 1/22/19. DR (STP. TAT)

Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



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

February 8, 2019

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1901-216

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on January 28, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: February 8, 2019
Samples Submitted: January 28, 2019
Laboratory Reference: 1901-216
Project: 397-019

Case Narrative

Samples were collected on January 26, 2019 and received by the laboratory on January 28, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: February 8, 2019
 Samples Submitted: January 28, 2019
 Laboratory Reference: 1901-216
 Project: 397-019

cPAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PH-4-4.5-012619					
Laboratory ID:	01-216-02					
Benzo[a]anthracene	0.079	0.011	EPA 8270D/SIM	2-7-19	2-7-19	
Chrysene	0.086	0.011	EPA 8270D/SIM	2-7-19	2-7-19	
Benzo[b]fluoranthene	0.10	0.011	EPA 8270D/SIM	2-7-19	2-7-19	
Benzo(j,k)fluoranthene	0.035	0.011	EPA 8270D/SIM	2-7-19	2-7-19	
Benzo[a]pyrene	0.11	0.011	EPA 8270D/SIM	2-7-19	2-7-19	
Indeno(1,2,3-c,d)pyrene	0.078	0.011	EPA 8270D/SIM	2-7-19	2-7-19	
Dibenz[a,h]anthracene	0.013	0.011	EPA 8270D/SIM	2-7-19	2-7-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>40 - 117</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>38 - 119</i>				
<i>Terphenyl-d14</i>	<i>67</i>	<i>47 - 135</i>				



Date of Report: February 8, 2019
 Samples Submitted: January 28, 2019
 Laboratory Reference: 1901-216
 Project: 397-019

**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0207S1					
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	2-7-19	2-7-19	
Chrysene	ND	0.0067	EPA 8270D/SIM	2-7-19	2-7-19	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	2-7-19	2-7-19	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	2-7-19	2-7-19	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	2-7-19	2-7-19	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	2-7-19	2-7-19	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	2-7-19	2-7-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>87</i>	<i>40 - 117</i>				
<i>Pyrene-d10</i>	<i>98</i>	<i>38 - 119</i>				
<i>Terphenyl-d14</i>	<i>93</i>	<i>47 - 135</i>				



Date of Report: February 8, 2019
 Samples Submitted: January 28, 2019
 Laboratory Reference: 1901-216
 Project: 397-019

**cPAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					SB	SBD	SB	SBD	SB	SBD
SPIKE BLANKS										
Laboratory ID:	SB0207S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	0.0793	0.0790	0.0833	0.0833	95	95	64 - 132	0	15	
Chrysene	0.0721	0.0742	0.0833	0.0833	87	89	64 - 127	3	15	
Benzo[b]fluoranthene	0.0749	0.0768	0.0833	0.0833	90	92	57 - 128	3	15	
Benzo(j,k)fluoranthene	0.0722	0.0723	0.0833	0.0833	87	87	62 - 130	0	15	
Benzo[a]pyrene	0.0711	0.0734	0.0833	0.0833	85	88	62 - 125	3	15	
Indeno(1,2,3-c,d)pyrene	0.0733	0.0741	0.0833	0.0833	88	89	55 - 130	1	15	
Dibenz[a,h]anthracene	0.0759	0.0765	0.0833	0.0833	91	92	58 - 129	1	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					89	79	40 - 117			
Pyrene-d10					83	85	38 - 119			
Terphenyl-d14					79	80	47 - 135			



Date of Report: February 8, 2019
Samples Submitted: January 28, 2019
Laboratory Reference: 1901-216
Project: 397-019

% MOISTURE

Date Analyzed: 2-7-19

Client ID	Lab ID	% Moisture
PH-4-4.5-012619	01-216-02	38





Data Qualifiers and Abbreviations

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





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

April 3, 2019

Javan Ruark
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-019
Laboratory Reference No. 1903-242

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on March 27, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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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: April 3, 2019
Samples Submitted: March 27, 2019
Laboratory Reference: 1903-242
Project: 397-019

Case Narrative

Samples were collected on March 26, 2019 and received by the laboratory on March 27, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH Gx/BTEX Analysis

The gasoline result for sample FMW-134-032619 is mainly attributed to a single peak (Naphthalene).

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



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 Project: 397-019

**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-032619					
Laboratory ID:	03-242-01					
Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Toluene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Ethyl Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
m,p-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
o-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Gasoline	ND	100	NWTPH-Gx	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	66-117				

Client ID:	FMW-135-032619					
Laboratory ID:	03-242-02					
Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Toluene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Ethyl Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
m,p-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
o-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Gasoline	ND	100	NWTPH-Gx	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	66-117				

Client ID:	FMW-136-032619					
Laboratory ID:	03-242-03					
Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Toluene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Ethyl Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
m,p-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
o-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Gasoline	ND	100	NWTPH-Gx	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	66-117				



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**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-032619					
Laboratory ID:	03-242-04					
Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Toluene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Ethyl Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
m,p-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
o-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Gasoline	140	100	NWTPH-Gx	3-28-19	3-28-19	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	75	66-117				

Client ID:	FMW-130-032619					
Laboratory ID:	03-242-05					
Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Toluene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Ethyl Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
m,p-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
o-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Gasoline	ND	100	NWTPH-Gx	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	77	66-117				

Client ID:	FMW-133-032619					
Laboratory ID:	03-242-06					
Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Toluene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Ethyl Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
m,p-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
o-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Gasoline	ND	100	NWTPH-Gx	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	66-117				



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**GASOLINE RANGE ORGANICS/BTEX
 NWTPH-Gx/EPA 8021B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0328W1					
Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Toluene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Ethyl Benzene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
m,p-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
o-Xylene	ND	1.0	EPA 8021B	3-28-19	3-28-19	
Gasoline	ND	100	NWTPH-Gx	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	75	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-242-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				78	79	66-117		

SPIKE BLANKS

Laboratory ID:	SB0328W1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	48.4	47.4	50.0	50.0	97	95	82-122	2	11
Toluene	49.9	48.8	50.0	50.0	100	98	83-123	2	12
Ethyl Benzene	50.5	49.2	50.0	50.0	101	98	83-123	3	12
m,p-Xylene	49.3	48.1	50.0	50.0	99	96	83-123	2	12
o-Xylene	49.6	48.7	50.0	50.0	99	97	83-123	2	11
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					85	82	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-032619					
Laboratory ID:	03-242-01					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-29-19	3-29-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-29-19	3-29-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	FMW-135-032619					
Laboratory ID:	03-242-02					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-29-19	3-29-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-29-19	3-29-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	FMW-136-032619					
Laboratory ID:	03-242-03					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-29-19	3-29-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-29-19	3-29-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				

Client ID:	FMW-134-032619					
Laboratory ID:	03-242-04					
Diesel Range Organics	0.54	0.25	NWTPH-Dx	3-29-19	3-29-19	M
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-29-19	3-29-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	FMW-130-032619					
Laboratory ID:	03-242-05					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-29-19	3-29-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-29-19	3-29-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				

Client ID:	FMW-133-032619					
Laboratory ID:	03-242-06					
Diesel Range Organics	0.28	0.25	NWTPH-Dx	3-29-19	3-29-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-29-19	3-29-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0329W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-29-19	3-29-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-29-19	3-29-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>86</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-242-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				<i>85</i>	<i>85</i>	<i>50-150</i>		



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-132-032619					
Laboratory ID:	03-242-01					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Chrysene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>99</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>96</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>120</i>	<i>32 - 137</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-135-032619					
Laboratory ID:	03-242-02					
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Chrysene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>64</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>84</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>32 - 137</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-136-032619					
Laboratory ID:	03-242-03					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Chrysene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>49</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>65</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>32 - 137</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-134-032619					
Laboratory ID:	03-242-04					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Chrysene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>56</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>78</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>80</i>	<i>32 - 137</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-130-032619					
Laboratory ID:	03-242-05					
Benzo[a]anthracene	0.015	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Chrysene	0.015	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[b]fluoranthene	0.011	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>53</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>73</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>32 - 137</i>				



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cPAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-133-032619					
Laboratory ID:	03-242-06					
Benzo[a]anthracene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Chrysene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[b]fluoranthene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[a]pyrene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>84</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>77</i>	<i>32 - 137</i>				



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**cPAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0328W1					
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Chrysene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	3-28-19	3-28-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>21 - 110</i>				
<i>Pyrene-d10</i>	<i>89</i>	<i>19 - 111</i>				
<i>Terphenyl-d14</i>	<i>117</i>	<i>32 - 137</i>				



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**cPAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0328W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzo[a]anthracene	0.396	0.371	0.500	0.500	79	74	57 - 127	7	15	
Chrysene	0.416	0.393	0.500	0.500	83	79	51 - 120	6	15	
Benzo[b]fluoranthene	0.473	0.444	0.500	0.500	95	89	54 - 124	6	17	
Benzo(j,k)fluoranthene	0.444	0.415	0.500	0.500	89	83	50 - 127	7	18	
Benzo[a]pyrene	0.456	0.405	0.500	0.500	91	81	50 - 120	12	16	
Indeno(1,2,3-c,d)pyrene	0.472	0.432	0.500	0.500	94	86	46 - 132	9	20	
Dibenz[a,h]anthracene	0.455	0.425	0.500	0.500	91	85	49 - 129	7	18	
<i>Surrogate:</i>										
<i>2-Fluorobiphenyl</i>					<i>59</i>	<i>68</i>	<i>21 - 110</i>			
<i>Pyrene-d10</i>					<i>89</i>	<i>79</i>	<i>19 - 111</i>			
<i>Terphenyl-d14</i>					<i>95</i>	<i>102</i>	<i>32 - 137</i>			





Data Qualifiers and Abbreviations

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





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

May 13, 2019

Joe Rounds
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-061
Laboratory Reference No. 1905-076

Dear Joe:

Enclosed are the analytical results and associated quality control data for samples submitted on May 7, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "D. Baumeister", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: May 13, 2019
Samples Submitted: May 7, 2019
Laboratory Reference: 1905-076
Project: 397-061

Case Narrative

Samples were collected on May 6, 2019 and received by the laboratory on May 7, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: May 13, 2019
 Samples Submitted: May 7, 2019
 Laboratory Reference: 1905-076
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-137-050619					
Laboratory ID:	05-076-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chloromethane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Vinyl Chloride	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromomethane	ND	0.43	EPA 8260C	5-11-19	5-11-19	
Chloroethane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Iodomethane	ND	3.5	EPA 8260C	5-11-19	5-11-19	
Methylene Chloride	ND	1.0	EPA 8260C	5-11-19	5-11-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
(cis) 1,2-Dichloroethene	1.3	0.20	EPA 8260C	5-11-19	5-11-19	
Bromochloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chloroform	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Trichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Dibromomethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromodichloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-11-19	5-11-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	



Date of Report: May 13, 2019
 Samples Submitted: May 7, 2019
 Laboratory Reference: 1905-076
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-137-050619					
Laboratory ID:	05-076-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Tetrachloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Dibromochloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromoform	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Bromobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	5-11-19	5-11-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: May 13, 2019
 Samples Submitted: May 7, 2019
 Laboratory Reference: 1905-076
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-138-050619					
Laboratory ID:	05-076-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chloromethane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Vinyl Chloride	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromomethane	ND	0.43	EPA 8260C	5-11-19	5-11-19	
Chloroethane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Iodomethane	ND	3.5	EPA 8260C	5-11-19	5-11-19	
Methylene Chloride	ND	1.0	EPA 8260C	5-11-19	5-11-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
(cis) 1,2-Dichloroethene	0.38	0.20	EPA 8260C	5-11-19	5-11-19	
Bromochloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chloroform	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Trichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Dibromomethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromodichloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-11-19	5-11-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	



Date of Report: May 13, 2019
 Samples Submitted: May 7, 2019
 Laboratory Reference: 1905-076
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-138-050619					
Laboratory ID:	05-076-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Tetrachloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Dibromochloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromoform	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Bromobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	5-11-19	5-11-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: May 13, 2019
 Samples Submitted: May 7, 2019
 Laboratory Reference: 1905-076
 Project: 397-061

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

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0511W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chloromethane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Vinyl Chloride	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromomethane	ND	0.43	EPA 8260C	5-11-19	5-11-19	
Chloroethane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Iodomethane	ND	3.5	EPA 8260C	5-11-19	5-11-19	
Methylene Chloride	ND	1.0	EPA 8260C	5-11-19	5-11-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2,2-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromochloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chloroform	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Trichloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Dibromomethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromodichloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	5-11-19	5-11-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	5-11-19	5-11-19	



Date of Report: May 13, 2019
 Samples Submitted: May 7, 2019
 Laboratory Reference: 1905-076
 Project: 397-061

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0511W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Tetrachloroethene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Dibromochloromethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Chlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Bromoform	ND	1.0	EPA 8260C	5-11-19	5-11-19	
Bromobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	5-11-19	5-11-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	5-11-19	5-11-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	5-11-19	5-11-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	5-11-19	5-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: May 13, 2019
 Samples Submitted: May 7, 2019
 Laboratory Reference: 1905-076
 Project: 397-061

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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0511W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.93	9.84	10.0	10.0	99	98	63-130	1	17	
Benzene	9.23	9.12	10.0	10.0	92	91	76-125	1	19	
Trichloroethene	9.87	9.71	10.0	10.0	99	97	76-121	2	18	
Toluene	9.63	9.45	10.0	10.0	96	95	80-124	2	18	
Chlorobenzene	10.3	9.84	10.0	10.0	103	98	75-120	5	19	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	99	75-127			
<i>Toluene-d8</i>					101	102	80-127			
<i>4-Bromofluorobenzene</i>					99	101	78-125			





Data Qualifiers and Abbreviations

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





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

Chain of Custody

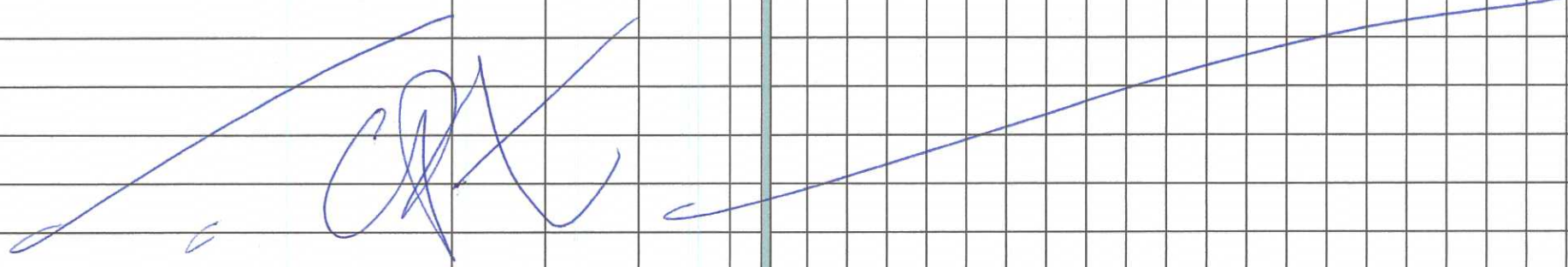
Company: Favallon
 Project Number: 397-061
 Project Name: Block 38 CVOCs
 Project Manager: Joe Rounds
 Sampled by: Greg Peters

Turnaround Request (in working days)

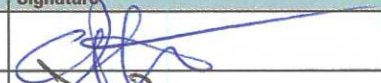
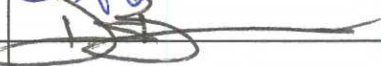
(Check One)

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

Laboratory Number: **05-076**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FMW-137-050619	5/6/19	1521	Water	3
2	FMW-138-050619	5/6/19	1629	Water	3
					

NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-GX	NWTPH-DX (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
						X												

Signature	Company	Date	Time	Comments/Special Instructions
	Favallon	5/7/19	0930	
	OSE	5/6/19	1700 GP	
		5/7/19	930	
				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"/>



**OnSite
Environmental Inc.**

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

July 12, 2019

Joe Rounds
Farallon Consulting
1809 7th Avenue, Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 397-061
Laboratory Reference No. 1907-103

Dear Joe:

Enclosed are the analytical results and associated quality control data for samples submitted on July 10, 2019.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: July 12, 2019
Samples Submitted: July 10, 2019
Laboratory Reference: 1907-103
Project: 397-061

Case Narrative

Samples were collected on July 8, 2019 and received by the laboratory on July 10, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: July 12, 2019
 Samples Submitted: July 10, 2019
 Laboratory Reference: 1907-103
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-137-070819					
Laboratory ID:	07-103-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloromethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Vinyl Chloride	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromomethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloroethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Iodomethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Methylene Chloride	ND	1.0	EPA 8260C	7-11-19	7-11-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2,2-Dichloropropane	ND	0.26	EPA 8260C	7-11-19	7-11-19	
(cis) 1,2-Dichloroethene	1.3	0.20	EPA 8260C	7-11-19	7-11-19	
Bromochloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloroform	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Trichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Dibromomethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromodichloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	7-11-19	7-11-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	



Date of Report: July 12, 2019
 Samples Submitted: July 10, 2019
 Laboratory Reference: 1907-103
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-137-070819					
Laboratory ID:	07-103-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Tetrachloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Dibromochloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromoform	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Bromobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	7-11-19	7-11-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	7-11-19	7-11-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: July 12, 2019
 Samples Submitted: July 10, 2019
 Laboratory Reference: 1907-103
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-138-070819					
Laboratory ID:	07-103-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloromethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Vinyl Chloride	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromomethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloroethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Iodomethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Methylene Chloride	ND	1.0	EPA 8260C	7-11-19	7-11-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2,2-Dichloropropane	ND	0.26	EPA 8260C	7-11-19	7-11-19	
(cis) 1,2-Dichloroethene	0.34	0.20	EPA 8260C	7-11-19	7-11-19	
Bromochloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloroform	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Trichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Dibromomethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromodichloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	7-11-19	7-11-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	



Date of Report: July 12, 2019
 Samples Submitted: July 10, 2019
 Laboratory Reference: 1907-103
 Project: 397-061

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-138-070819					
Laboratory ID:	07-103-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Tetrachloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Dibromochloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromoform	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Bromobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	7-11-19	7-11-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	7-11-19	7-11-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: July 12, 2019
 Samples Submitted: July 10, 2019
 Laboratory Reference: 1907-103
 Project: 397-061

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

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0711W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloromethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Vinyl Chloride	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromomethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloroethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Trichlorofluoromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Iodomethane	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Methylene Chloride	ND	1.0	EPA 8260C	7-11-19	7-11-19	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2,2-Dichloropropane	ND	0.26	EPA 8260C	7-11-19	7-11-19	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromochloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chloroform	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Carbon Tetrachloride	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Trichloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Dibromomethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromodichloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	7-11-19	7-11-19	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	7-11-19	7-11-19	



Date of Report: July 12, 2019
 Samples Submitted: July 10, 2019
 Laboratory Reference: 1907-103
 Project: 397-061

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0711W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Tetrachloroethene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,3-Dichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Dibromochloromethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dibromoethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Chlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Bromoform	ND	1.0	EPA 8260C	7-11-19	7-11-19	
Bromobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	7-11-19	7-11-19	
2-Chlorotoluene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
4-Chlorotoluene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
1,2-Dibromo-3-chloropropane	ND	1.4	EPA 8260C	7-11-19	7-11-19	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
Hexachlorobutadiene	ND	1.0	EPA 8260C	7-11-19	7-11-19	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	7-11-19	7-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: July 12, 2019
 Samples Submitted: July 10, 2019
 Laboratory Reference: 1907-103
 Project: 397-061

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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0711W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.84	7.82	10.0	10.0	78	78	63-130	0	17	
Benzene	8.52	8.55	10.0	10.0	85	86	76-125	0	19	
Trichloroethene	9.85	9.92	10.0	10.0	99	99	76-121	1	18	
Toluene	9.28	9.22	10.0	10.0	93	92	80-124	1	18	
Chlorobenzene	9.76	9.92	10.0	10.0	98	99	75-120	2	19	
<i>Surrogate:</i>										
Dibromofluoromethane					100	101	75-127			
Toluene-d8					102	102	80-127			
4-Bromofluorobenzene					99	101	78-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: Favallen

Project Number: 397-061

Project Name: Block 38 West

Project Manager: Joe Rando

Sampled by: Greg Peters

**Turnaround Request
(in working days)**

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: 07-103

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FMW-137-070819	7/8/19	0924	Water	3
2	FMW-138-070819	7/8/19	1855	Water	3
<i>[Large handwritten signature]</i>					

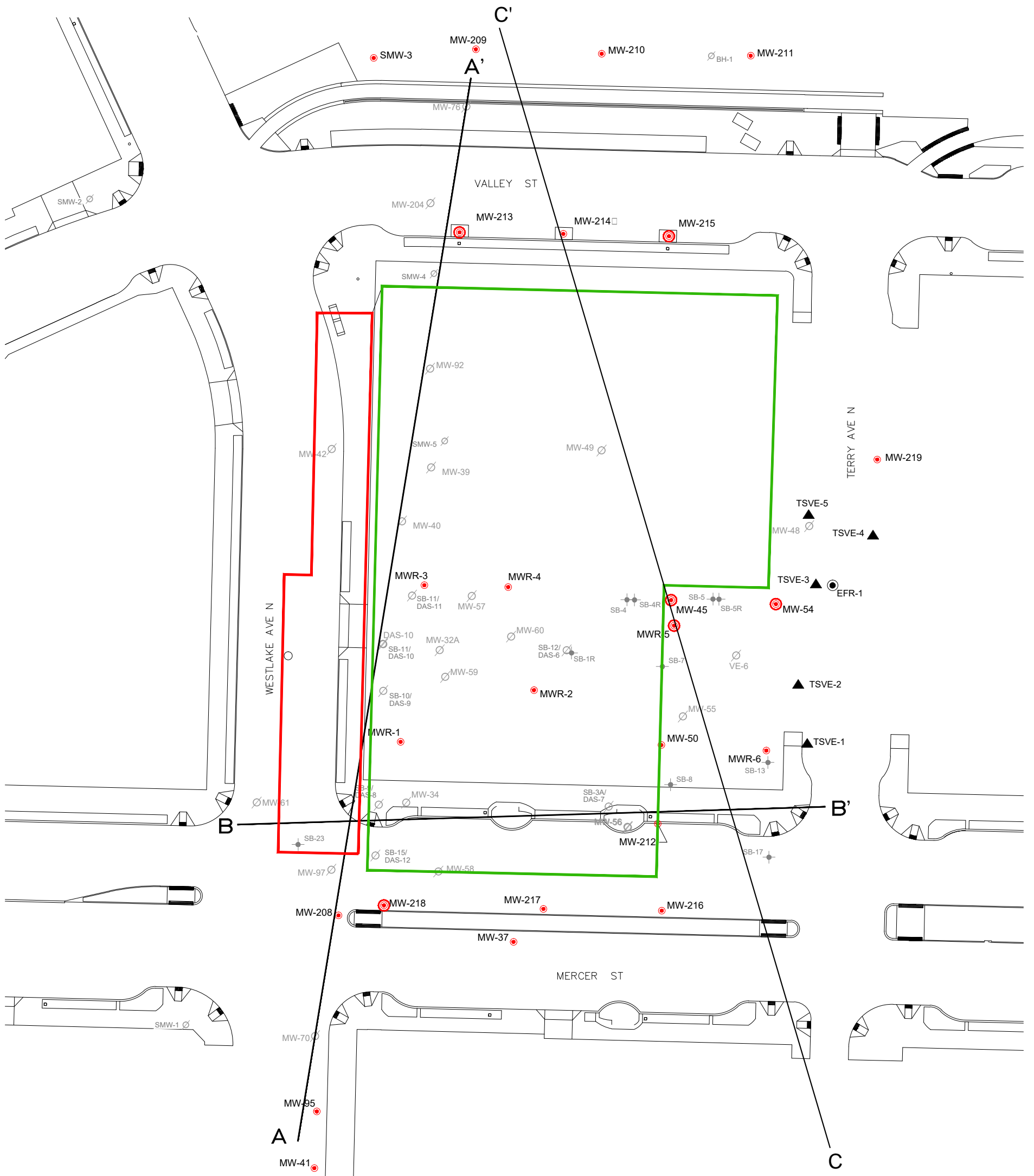
NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
					X												
					X												

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Favallen	7/9/19	1830	
<i>[Signature]</i>	Speedy	7-9-19	0920	
<i>[Signature]</i>	Speedy	7-9-19	1109	
<i>[Signature]</i>	<i>[Signature]</i>	7/8/19	1109	
Relinquished				
Received				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		

APPENDIX D
ATC CLEANUP ACTION SUMMARY

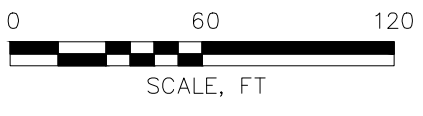
INTERIM ACTION WORK PLAN
Block 38 West Property
500 through 536 Westlake Avenue North
Seattle, Washington

Farallon PN: 397-019



LEGEND:

- GROUNDWATER MONITORING WELL
- ⊙ GROUNDWATER MONITORING WELL WITH IMPACTED READINGS
- ⊙ SOIL BORING - DELTA 2005
- ▲ SVE WELL ON TERRY AVENUE - 2007
- ⊙ SB-1/DAS-6 AS WELL - DELTA 2005 (DESTROYED)
- ⊙ SB-6/VE-6 SVE WELL - DELTA 2005 (DESTROYED)
- ⊙ MW-48 MONITOR WELL - 1991 OR 1992 (DESTROYED)
- ⊙ EFR-1 ENHANCED FLUID RECOVERY WELL - 2007
- ⊙ SMW-2 MONITOR WELL - SCS 1991 (DESTROYED)
- A—A' CROSS SECTION TRANSECT
- IMPACTED AREAS OF PHASE I REMEDIAL EXCAVATION
- IMPACTED AREAS OF PHASE II REMEDIAL EXCAVATION



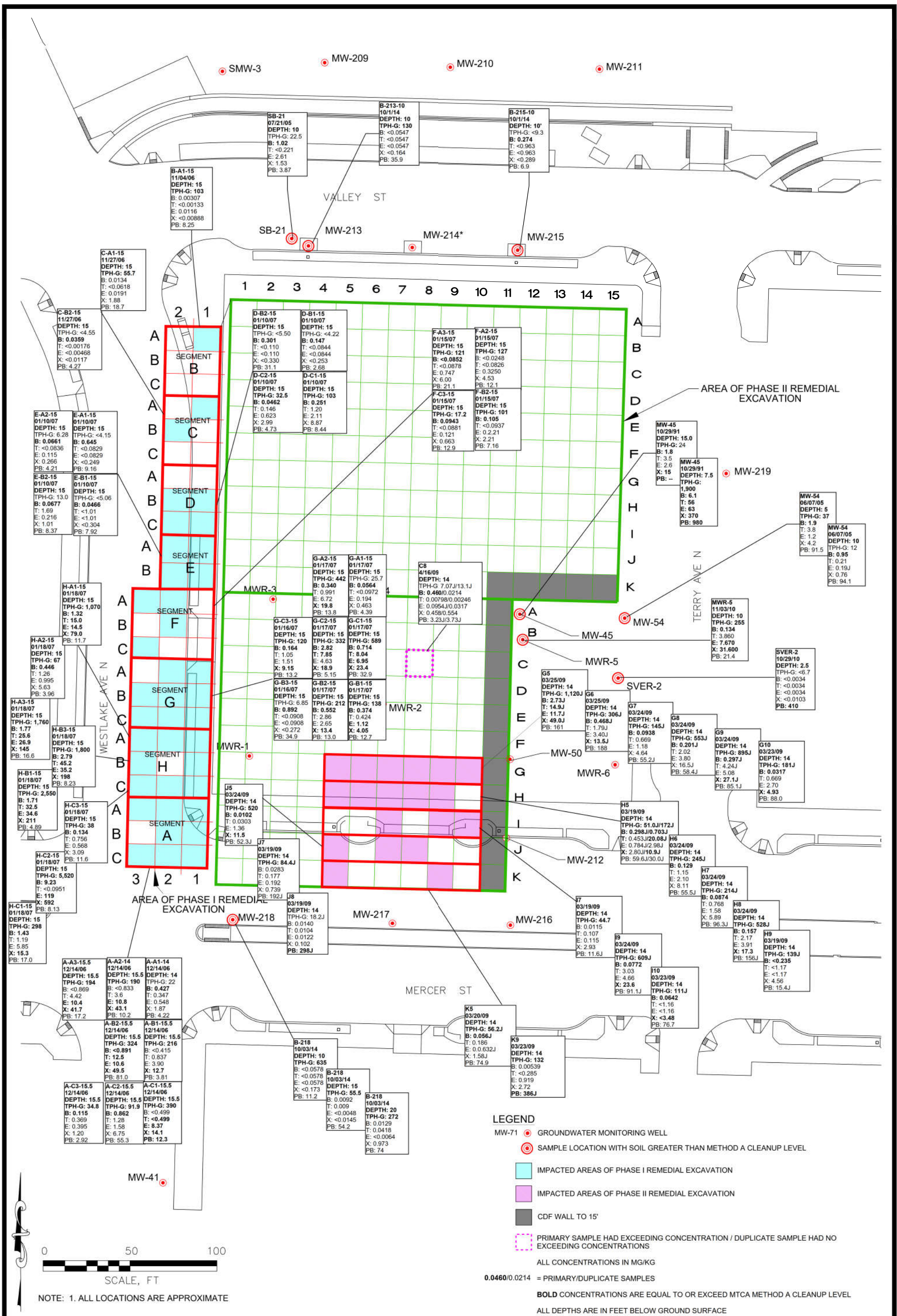
NOTE: 1. ALL LOCATIONS ARE APPROXIMATE

CROSS-SECTION TRANSECT LOCATIONS

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
 600 WESTLAKE AVENUE N
 SEATTLE, WA

PROJECT NUMBER: Z076000073	DATE: 7/23/2019	FIGURE
APPROVED BY: ES	DRAWN BY: BK	6

ATC 6347 Seaview Avenue NW
 Seattle, Washington 98107
 Ph: (206) 781-1449 *** Fax: (206) 781-1543



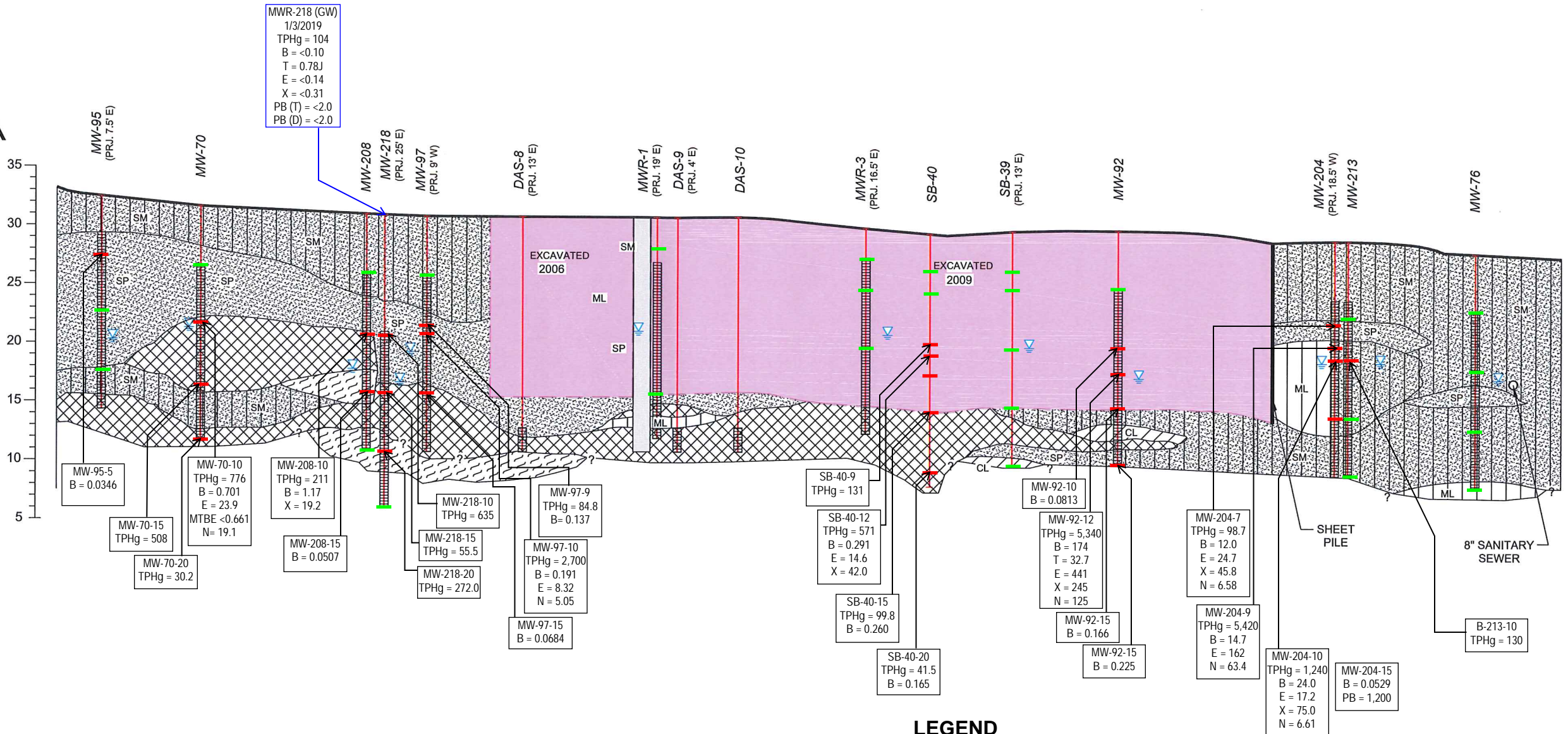
POST EXCAVATION SOIL CONDITIONS MAP

PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
 600 WESTLAKE AVENUE N
 SEATTLE, WA

PROJECT NUMBER: Z076000073	DATE: 2/16/18	FIGURE
APPROVED BY: ES	DRAWN BY: BK	5
6347 Seaview Avenue NW Seattle, Washington 98107 Ph: (206) 781-1449 *** Fax: (206) 781-1543		

A
ELEVATION ABOVE MEAN SEA LEVEL, FT
(N.A.V.D. 1988)

A'



MWR-218 (GW)
1/3/2019
TPHg = 104
B = <0.10
T = 0.78J
E = <0.14
X = <0.31
PB (T) = <2.0
PB (D) = <2.0

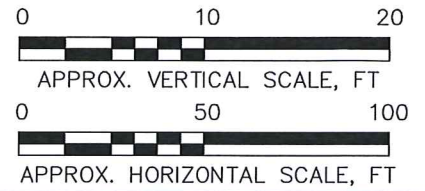
- MW-95-5 B = 0.0346
- MW-70-15 TPHg = 508
- MW-70-20 TPHg = 30.2
- MW-70-10 TPHg = 776
B = 0.701
E = 23.9
MTBE <0.661
N = 19.1
- MW-208-10 TPHg = 211
B = 1.17
X = 19.2
- MW-208-15 B = 0.0507
- MW-218-10 TPHg = 635
- MW-218-15 TPHg = 55.5
- MW-218-20 TPHg = 272.0
- MW-97-9 TPHg = 84.8
B = 0.137
- MW-97-10 TPHg = 2,700
B = 0.191
E = 8.32
N = 5.05
- MW-97-15 B = 0.0684
- MW-97-15 B = 0.0684
- SB-40-9 TPHg = 131
- SB-40-12 TPHg = 571
B = 0.291
E = 14.6
X = 42.0
- SB-40-15 TPHg = 99.8
B = 0.260
- SB-40-20 TPHg = 41.5
B = 0.165
- MW-92-10 B = 0.0813
- MW-92-12 TPHg = 5,340
B = 174
T = 32.7
E = 441
X = 245
N = 125
- MW-92-15 B = 0.166
- MW-92-15 B = 0.225
- MW-92-15 B = 0.225
- MW-204-7 TPHg = 98.7
B = 12.0
E = 24.7
X = 45.8
N = 6.58
- MW-204-9 TPHg = 5,420
B = 14.7
E = 162
N = 63.4
- MW-204-10 TPHg = 1,240
B = 24.0
E = 17.2
X = 75.0
N = 6.61
- MW-204-15 B = 0.0529
PB = 1,200
- B-213-10 TPHg = 130

LEGEND

- = SOIL SAMPLE WITH ONE OR MORE ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- = SOIL SAMPLE WITH NO ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- BLUE DATA BOXES = GROUNDWATER DATA (CONCENTRATIONS IN MICROGRAMS PER LITER)
- BLACK DATA BOXES = SOIL DATA (CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM. ALL CONCENTRATIONS SHOWN EXCEED MTCA METHOD A CLEANUP LEVELS)
- TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPHo = TOTAL PETROLEUM HYDROCARBONS AS OIL
B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
MTBE = METHYL TERT-BUTYL ETHER
N = NAPHTHALENE
PB = LEAD (FOR GROUNDWATER DATA (T) = TOTAL LEAD, (D) = DISSOLVED LEAD)
- BOLDDED CONCENTRATIONS EXCEED MTCA METHOD A CLEANUP LEVELS**
- SP - POORLY GRADED SAND, WITH OR WITHOUT GRAVEL
- ML - SANDY SILT OR CLAYEY SILT, WITH OR WITHOUT GRAVEL
- FILL
- PT - PEAT
- CL - CLAY WITH OR WITHOUT SILT
- SM - SILTY SAND, WITH OR WITHOUT GRAVEL
- SLURRY WALL
- BORING
- WELL SCREEN
- APPROXIMATE FIRST ENCOUNTERED WATER LEVEL

NOTES:

1. THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA INDICATED ON THE SECTIONS WERE GENERALIZED FROM AND INTERPOLATED BETWEEN THE SOIL BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE SOIL BORINGS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE SOIL BORINGS MAY VARY FROM THOSE INDICATED.
2. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.



CROSS SECTION A - A'

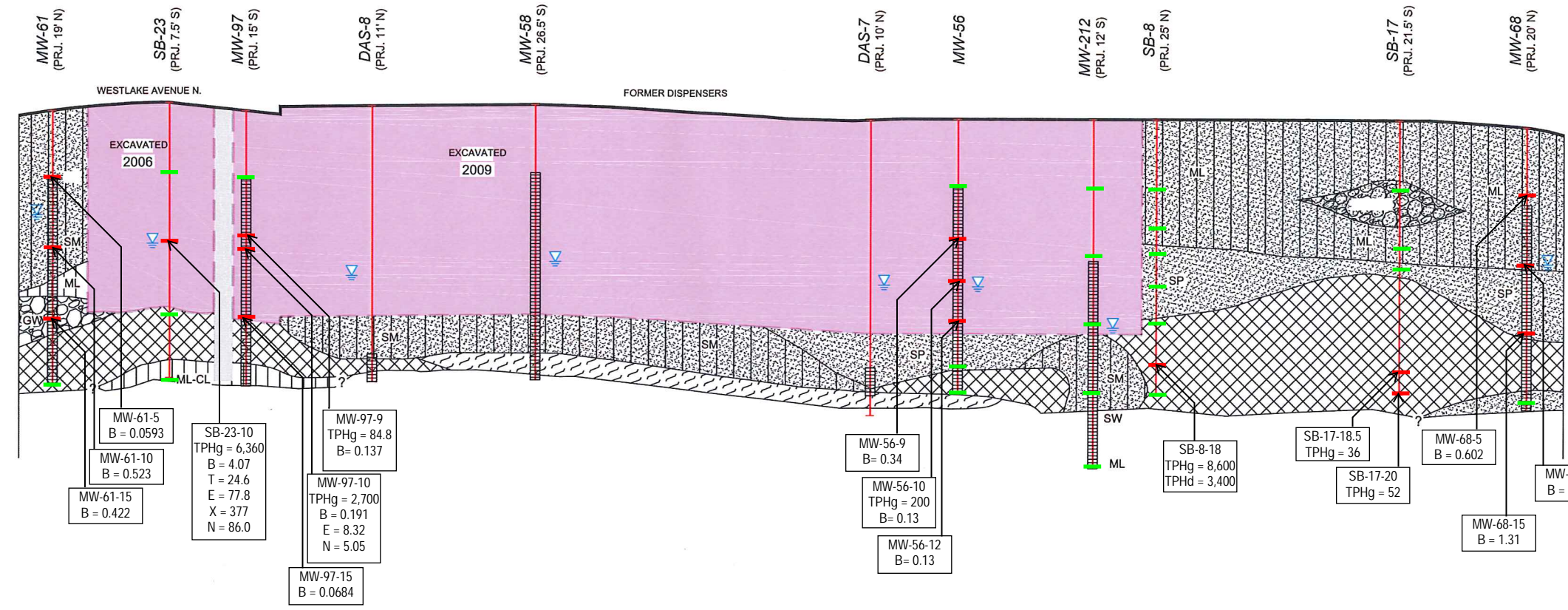
PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
600 WESTLAKE AVENUE NORTH
SEATTLE, WA

PROJECT NUMBER: Z076000073	DATE: 1/29/18	FIGURE 7
APPROVED BY: ES	DRAWN BY: BK	
ATC 6347 Seaview Avenue NW Seattle, Washington 98107 Ph: (206) 781-1449 *** Fax: (206) 781-1543		

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B

ELEVATION ABOVE MEAN SEA LEVEL, FT
(N.A. V.D. 1988)



B'

ELEVATION ABOVE MEAN SEA LEVEL, FT
(N.A. V.D. 1988)

LEGEND

- = SOIL SAMPLE WITH ONE OR MORE ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- = SOIL SAMPLE WITH NO ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL

BLACK DATA BOXES = SOIL DATA (CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM. ALL CONCENTRATIONS SHOWN EXCEED MTCA METHOD A CLEANUP LEVELS

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 TPHo = TOTAL PETROLEUM HYDROCARBONS AS OIL
 B = BENZENE
 T = TOLUENE
 E = ETHYLBENZENE
 X = TOTAL XYLENES
 N = NAPHTHALENE

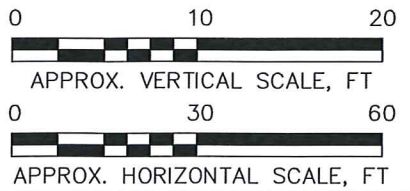
BOLDED CONCENTRATIONS EXCEED MTCA METHOD A CLEANUP LEVELS

- SP - POORLY GRADED SAND, WITH OR WITHOUT GRAVEL
- ML - SANDY SILT OR CLAYEY SILT, WITH OR WITHOUT GRAVEL
- FILL
- PT - PEAT
- CL - CLAY WITH OR WITHOUT SILT
- SM - SILTY SAND, WITH OR WITHOUT GRAVEL
- GW, GM - WELL GRADED GRAVEL, WITH OR WITHOUT SILT
- SLURRY WALL

▽ APPROXIMATE FIRST ENCOUNTERED WATER LEVEL

- BORING
- WELL SCREEN

- NOTES:**
- THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA INDICATED ON THE SECTIONS WERE GENERALIZED FROM AND INTERPOLATED BETWEEN THE SOIL BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE SOIL BORINGS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE SOIL BORINGS MAY VARY FROM THOSE INDICATED.
 - THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.



CROSS SECTION B - B'

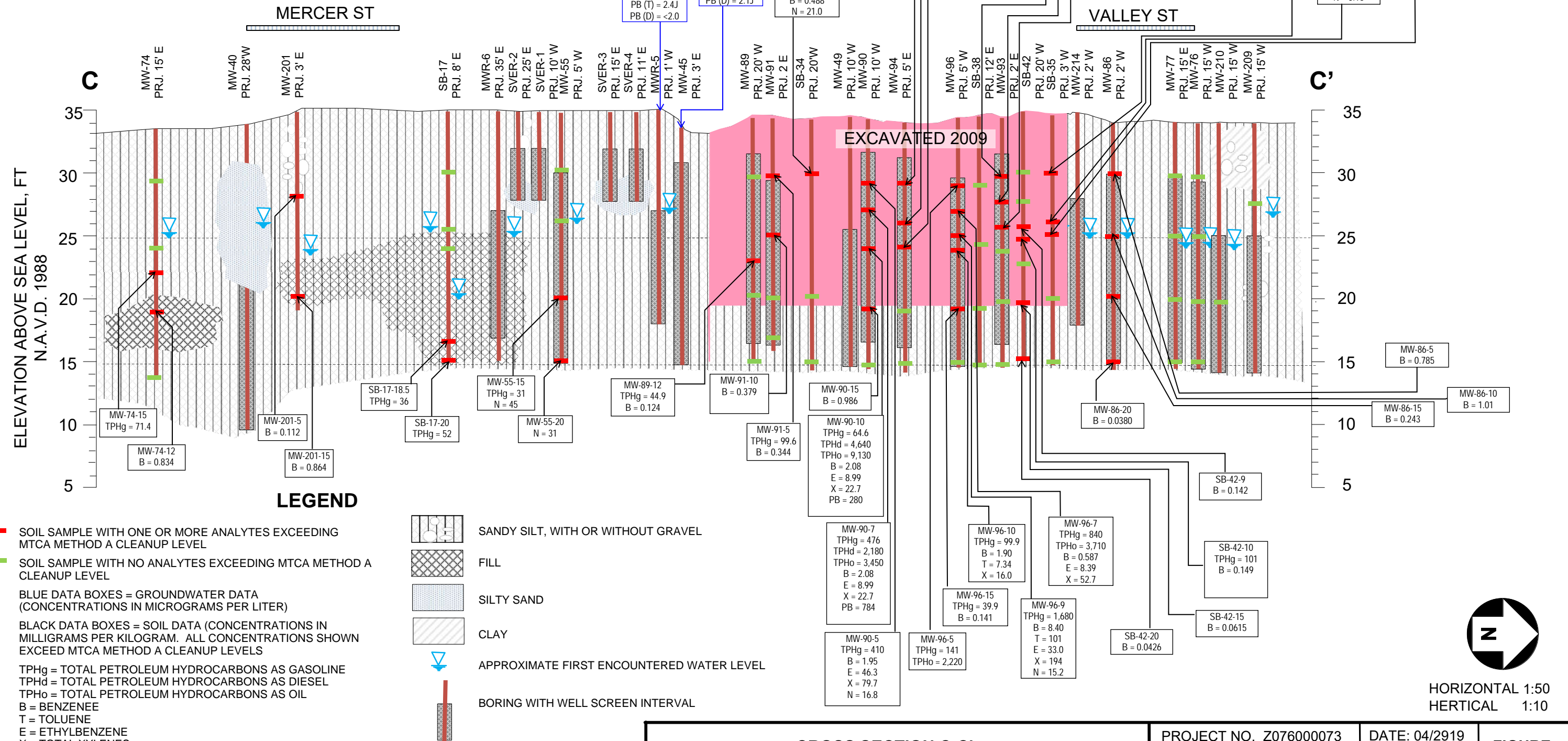
PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)
 600 WESTLAKE AVENUE NORTH
 SEATTLE, WA

PROJECT NUMBER: Z076000073	DATE: 1/29/18	FIGURE
APPROVED BY: ES	DRAWN BY: BK	8
ATC 6347 Seaview Avenue NW Seattle, Washington 98107 Ph: (206) 781-1449 *** Fax: (206) 781-1543		

S:\Projects\7675000 COP\1396 SEATTLE\SECTB.B.dwg

NOTES:

1. THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA INDICATED ON THE SECTION WERE GENERALIZED FROM AND INTERPOLATED BETWEEN THE SOIL BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXIST ONLY AT THE LOCATION OF THE SOIL BORINGS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE SOIL BORINGS MAY VARY FROM THOSE INDICATED.
2. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE LOCATIONS.



HORIZONTAL 1:50
VERTICAL 1:10

CROSS SECTION C-C'		PROJECT NO. Z076000073	DATE: 04/2919	FIGURE
PHILLIPS 66 FACILITY NO. 255353 (AOC 1396)		APPROVED BY: ES	DRAWN BY: AD	9
600 WESTLAKE AVENUE NORTH SEATTLE, WA		6347 Seaview Avenue NW Seattle, Washington 98107 (206) 781-1449		

LEGEND

- SOIL SAMPLE WITH ONE OR MORE ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- SOIL SAMPLE WITH NO ANALYTES EXCEEDING MTCA METHOD A CLEANUP LEVEL
- BLUE DATA BOXES = GROUNDWATER DATA (CONCENTRATIONS IN MICROGRAMS PER LITER)
- BLACK DATA BOXES = SOIL DATA (CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM. ALL CONCENTRATIONS SHOWN EXCEED MTCA METHOD A CLEANUP LEVELS)
- TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- TPHo = TOTAL PETROLEUM HYDROCARBONS AS OIL
- B = BENZENE
- T = TOLUENE
- E = ETHYLBENZENE
- X = TOTAL XYLENES
- N = NAPHTHALENE
- PB = LEAD (FOR GROUNDWATER DATA (T) = TOTAL LEAD, (D) = DISSOLVED LEAD)
- BOLDED** CONCENTRATIONS EXCEED MTCA METHOD A CLEANUP LEVELS

- SANDY SILT, WITH OR WITHOUT GRAVEL
- FILL
- SILTY SAND
- CLAY
- APPROXIMATE FIRST ENCOUNTERED WATER LEVEL
- BORING WITH WELL SCREEN INTERVAL

APPENDIX E
GEOENGINEERS CLEANUP ACTION SUMMARY

INTERIM ACTION WORK PLAN
Block 38 West Property
500 through 536 Westlake Avenue North
Seattle, Washington

Farallon PN: 397-019

Rosen Property
aka H & A Investments Property
Seattle
LUST 4654
VCP NW 1936

RECEIVED

NOV 24 2008

DEPT. OF ECOLOGY
TCP-NWRO

CLEANUP ACTION REPORT
INTERURBAN EXCHANGE 2
535 TERRY AVENUE NORTH
SEATTLE, WASHINGTON

OCTOBER 28, 2008

FOR
LAKE UNION IV, LLC

ENTERED
E 072
2009

TABLE 1
LOTS 1 AND 2 REMEDIAL EXCAVATION SOIL CHEMICAL ANALYTICAL DATA
PETROLEUM HYDROCARBONS, BENZENE, ETHYLBENZENE, TOLUENE AND XYLENES
INTERURBAN EXCHANGE 2
535 TERRY AVENUE NORTH, SEATTLE, WASHINGTON

Sample ID ^{1,2}	Sample Date	Elevation	Depth (ft bgs)	Field Screening		Petroleum Hydrocarbons (mg/kg)				BETX ³ (mg/kg)			
				Sheen	Headspace (ppm)	Gasoline Range ³	Diesel Range ⁴	Heavy Oil Range ⁴	Mineral Oil Range ⁴	B	E	T	X
Waste Disposal Authorization Characterization Soil Samples⁵													
TP-11-9 ⁵	05/05/08	NA	9	SS	--	<10	<20	<50	<40	--	--	--	--
HA-1-6	05/13/08	NA	6	NS	--	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
HA-2-2	05/13/08	NA	2	NS	--	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-1-9.0 ⁷	06/24/08	NA	9	SS	--	40	30	<200	<400	--	--	--	--
Confirmation Soil Samples													
Base Confirmation Soil Samples													
EX-2-EL15	06/26/08	15	14	NS	2	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-21-EL16	07/11/08	16	17.5	MS	36	55	730	<50	<40	<0.02	0.11	<0.05	0.17
EX-22-EL16	07/11/08	16	17.5	SS	170	70	<20	<50	28	<0.02	1.3	<0.05	0.66
EX-23-EL16 ⁵	07/11/08	16	17.5	SS	>300	250	<20	<50	<40	<0.02	2.4	0.21	4.7
EX-23-EL15	07/15/08	15	16.5	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-24-EL16 ⁵	07/11/08	16	17.5	SS	>300	290	<20	<50	<40	<0.02	1.1	0.11	3.5
EX-24-EL15	07/16/08	15	16.5	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-25-EL16	07/14/08	16	17.5	NS	13	15	<20	<50	<40	<0.02	0.08	<0.05	0.15
EX-26-EL16	07/14/08	16	17.5	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-27-EL16 ¹⁰	07/14/08	16	17.5	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-28-EL16	07/14/08	16	17.5	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-30-EL19 ¹⁰	07/15/08	19	11	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-31-EL20 ¹⁰	07/15/08	20	10	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-43-EL15.5	07/22/08	15.5	17	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-44-EL17.5 ¹⁰	07/22/08	17.5	16	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15

Sample ID ^{1,2}	Sample Date	Elevation	Depth (ft bgs)	Field Screening		Petroleum Hydrocarbons (mg/kg)				BETX ³ (mg/kg)			
				Sheen	Headspace (ppm)	Gasoline Range ³	Diesel Range ⁴	Heavy Oil Range ⁴	Mineral Oil Range ⁴	B	E	T	X
Sidewall Confirmation Soil Samples													
EX-3-E3	06/30/08	22	8	MS	>200	64	230	<50	<40	<0.02	0.13	<0.05	0.25
EX-4-N13.5 ⁵	06/30/08	22	8	MS	>400	145	<20	<50	<40	<0.02	1.6	1.0	5.2
EX-5-N10 ⁵	06/30/08	21	9	SS	>400	340	<20	<50	<40	0.1	5.4	2.4	19
EX-6-N6 ⁵	06/30/08	23	7	HS	>400	280	<20	320	<40	0.11	4.2	2.2	7.4
EX-10-N2 ⁵	07/01/08	22	8	HS	>400	1100	<20	430	<40	0.05	3.8	2.3	12
EX-11-W21	07/02/08	21	9.5	NS	15	11	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-12-W16.5	07/02/08	22	7	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-13-E15	07/02/08	23	11	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-15-E11	07/02/08	21	12	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-16-E7	07/02/08	21	12	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-17-W13	07/03/08	20	6.5	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
EX-18-W9	07/03/08	19.5	6	NS	0	<10	<20	<50	<40	<0.02	<0.05	<0.05	<0.15
MTCA Method A or B Cleanup Levels						100/30 ⁹	2000	2000	4000	0.03	6	7	9

Notes:

¹Sample locations shown on the attached site plan.

²GeoEngineers samples submitted to Fremont Analytical, Seattle, Washington.

³Analyzed by Ecology Method NWTPH-Gx and 8021B.

⁴Analyzed by Ecology Method NWTPH-Dx or NWTPH-Dx Extended with a silica gel cleanup.

⁵Contaminated soil represented by this sample was subsequently excavated and removed from the site for permitted disposal.

⁶This sample was also analyzed for Volatile Organic Compounds (VOCs) by EPA Method 8260 and RCRA 8 Metals. VOCs were not detected in the sample. Metals either were not detected or were detected at concentrations less than the MTCA Method A cleanup levels. See the laboratory report for the full list of analytes tested.

⁷This sample was also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs), lead and PCBs. PAHs and PCBs were not detected (less than 0.5 mg/kg). Lead was detected at a concentration less than the MTCA Method A cleanup level. See the laboratory report for the full list of analytes tested.

⁸Contaminated soil represented by this sample was left in place because it extends into the right-of-way and was not accessible.

⁹When benzene is present, the gasoline range cleanup level is 30 mg/kg. When benzene is not present the gasoline range cleanup level is 100 mg/kg.

¹⁰This sample was also submitted for chemical analysis of lead, cadmium and/or PAHs. These results are presented in Table 3. See the laboratory report for the full list of analytes tested.

mg/kg = milligrams per kilogram

-- = Not Tested

MTCA = Model Toxic Control Act

bgs = below ground surface

NA = Not applicable.

NS = no sheen, SS = slight sheen, MS = moderate sheen, HS = heavy sheen

Bolding indicates analyte was detected. Shading indicates that analyte was detected at concentrations greater than MTCA Method A cleanup levels.

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TABLE 2
 LOTS 3, 4 AND 5 REMEDIAL EXCAVATION SOIL CHEMICAL ANALYTICAL DATA
 CADMIUM, LEAD AND POLYCYCLIC AROMATIC HYDROCARBONS
 INTERURBAN EXCHANGE 2
 535 TERRY AVENUE NORTH, SEATTLE, WASHINGTON

Sample ID ¹	Consultant ^{2,3}	Sample Date	Elevation	Depth (ft bgs)	Field Screening		Total Metals ⁴ (mg/kg)		Non-carcinogenic Polycyclic Aromatic Hydrocarbons ⁵ (mg/kg)								Carcinogenic Polycyclic Aromatic Hydrocarbons ⁵ (mg/kg)										
					Sheen	Headspace (ppm)	Cadmium	Lead	Naphthalenes	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)-perylene	Benzo(a)-anthracene	Chrysene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)-pyrene	Indeno(1,2,3-cd)Pyrene	Dibenz(a,h)-anthracene	Total cPAHs (TEQ) ⁶		
Waste Characterization Soil Samples^{7,12}																											
TP-10-4 ⁸	GeoEngineers	05/05/08	NA	4	SS	--	2.4	1,900	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.21	0.33	0.1	0.17	0.29	0.25	0.36	0.16	<0.03	<0.03	0.245		
HA-3-4		05/13/08	NA	4	NS	--	<2	56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
HA-4-2		05/13/08	NA	2	NS	--	<2	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Confirmation Samples																											
Base Confirmation Soil Samples																											
EX-27-EL16	GeoEngineers	07/14/08	16	17.5	NS	0	--	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-30-EL19 ¹²		07/15/08	19	7	NS	0	<2.0	52	<0.05	<0.05	<0.05	<0.05	0.15	0.14	0.22	0.22	0.12	0.24	0.16	<0.01	0.15	0.10	0.09	0.07	0.16		
EX-30-EL18		07/18/08	18	8	NS	0	<2.0	15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-31-EL20		07/15/08	20	8	NS	0	<2.0	12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	<0.05	<0.05	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	
EX-32-EL19		07/16/08	19	5.0	NS	0	<2.0	44	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-34-EL20 ¹²		07/17/08	20	3.5	NS	0	<2.0	110	1.75	0.11	0.09	0.17	0.49	0.23	0.39	0.45	0.17	0.23	0.15	0.19	0.13	0.17	0.10	0.10	0.11		
EX-34-EL19		07/21/08	19	4.5	NS	0	--	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-42-EL21		07/18/08	21	2.5	NS	0	<2.0	37	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.14	0.09	0.09	0.10	0.05	0.06	<0.01	0.03		
EX-44-EL17.5		07/22/08	17.5	16	NS	0	<2.0	115	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Base Confirmation Wood Samples																											
ATP-1 (7.5)	Adapt	08/12/06	NA	7.5	NA	NA	--	--	--	--	--	--	--	--	--	--	--	0.0042	0.0048	0.0067	ND	0.0053	ND	ND	0.0044		
ATP-2 (4)		08/12/06	NA	4	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	0.0038	0.0067	0.0064	0.0028	0.0045	ND	ND	0.0048	
ATP-3 (7)		08/12/06	NA	7	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	0.0052	0.0050	0.0070	ND	0.0050	ND	ND	0.0035	
ATP-4 (4.5)		08/12/06	NA	4.5	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	0.0240	0.0390	0.0770	0.0220	0.0550	0.0130	ND	0.0223	
ATP-5 (5)		08/12/06	NA	5	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	0.1500	0.1500	0.1400	ND	ND	ND	ND	0.0417	
ATP-6 (8)		08/12/06	NA	8	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	0.0070	0.0100	0.0140	0.0059	0.0088	0.0024	ND	0.0059	
ATP-7 (6)		08/13/06	NA	6	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	ND	0.0046	0.0130	0.0110	0.0080	0.0210	ND	0.0188	
ATP-8 (6.5)		08/13/06	NA	6.5	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	0.0130	0.0140	0.0390	0.0170	0.0280	0.0130	ND	0.0293	
ATP-9 (6)		08/13/06	NA	6	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	0.0276	
ATP-10 (5.5)		08/13/06	NA	5.5	NA	NA	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	0.0181	
Sidewall Confirmation Soil Samples																											
EX-7-E31.5	GeoEngineers	07/01/08	23	12	NS	0	<2.0	12	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	0.11	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-8-E27.5		07/01/08	23	12	NS	0	<2.0	<4.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX-9-E23		07/01/08	23	12	NS	0	<2.0	<4.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX-14-E19		07/02/08	23	11	NS	0	<2.0	12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EX-19-W5 ^{10,11}		07/03/08	20	5	NS	0	<2.0	64	0.07	0.11	0.42	0.30	2.3	0.98	2.9	3.6	2.0	0.97	0.88	1.3	0.55	1.7	0.78	0.50	2.17		
EX-20-W1.5 ¹¹		07/03/08	19.5	5.5	NS	0	<2.0	120	0.13	0.12	0.63	0.42	4.2	1.5	4.4	5.5	3.0	1.2	1.2	2.1	0.75	2.3	1.2	0.76	2.99		
EX-29-EL16		07/14/08	16	--	NS	0	<2.0	29	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-33-EL21		07/16/08	21	3.0	NS	0	<2.0	27	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-35-EL22.5 ¹¹		07/17/08	22.5	1.5	NS	0	<2.0	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	0.08	0.11	0.15	0.06	0.08	<0.01	0.11	
EX-36-EL23 ¹¹		07/18/08	23	1.5	NS	0	<2.0	35	<0.05	<0.05	<0.05	<0.05	0.28	0.28	0.56	0.56	0.34	0.47	0.16	0.33	0.24	0.16	0.17	<0.01	0.28		
EX-37-EL23		07/18/08	23	1.5	NS	0	<2.0	<4.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
EX-38-EL23 ¹¹		07/18/08	23	1.0	NS	0	<2.0	160	<0.05	0.14	<0.05	0.43	4.2	1.7	6.3	7.8	2.9	2.7	1.4	1.6	1.7	2.9	1.1	1.0	3.82		
EX-39-EL23 ¹¹		07/18/08	23	1.0	NS	0	<2.0	86	<0.05	0.11	<0.05	0.13	0.27	0.27	0.51	0.0	0.39	0.73	0.21	0.23	0.31	0.32	0.18	<0.01	0.47		
EX-40-EL22 ¹¹		07/18/08	22	2.0	NS	0	<2.0	1,800	6	7.2	0.61	4.9	53	40	43	53	12	17	9.4	17	20	19.00	5.7	1.40	25.34		
EX-41-EL22 ¹¹		07/18/08	22	3.0	NS	0	<2.0	1,200	0.56	0.49	0.16	0.31	3.3	1.4	4.1	4.7	1.7	2.9	2.1	1.3	1.1	2.30	0.69	0.62	3.04		
MTCA Method A or B Cleanup Levels							2	250	5	NE	4,800	3,200	NE	24,000	3,200	2,400	NE	NA	NA	NA	NA	NA	NA	NA	0.1		

Notes:

¹Sample locations shown on the attached site plan.

²GeoEngineers samples submitted to Fremont Analytical in Seattle, Washington.

³Adapt Engineering, Inc. (Adapt) samples submitted to Friedman and Bruya Inc. in Seattle, Washington.

⁴Analyzed by EPA Method 6020

⁵Analyzed by EPA Method 8270C (SIM).

⁶Calculated using the toxicity equivalency (TEQ) methodology specified in WAC 173-340-780(8). cPAHs that were not detected were assigned half the value of the detection limit for these calculations. Total cPAHs for the Adapt samples was calculated using the wood Ecology and using the sampling method approved by Toxicity Equivalency Factors (TEF).

⁷Each of the characterization soil samples were also analyzed for RCRA 8 Metals and gasoline-, diesel-, and lube oil-range petroleum hydrocarbons and BETX using Ecology methods NWTPH-Gx, NWTPH-Dx and EPA Method 8021B. Petroleum hydrocarbons, BETX and metals other than cadmium and lead were either not detected or were detected at concentrations less than the MTCA Method A cleanup level. See the laboratory report for the full list of analytes tested.

⁸Mercury was detected in this sample at a concentration of 4 mg/kg, which is greater than the MTCA Method A cleanup level. Soil represented by this sample was subsequently excavated and a new sample (EX-19-W5) was obtained in its place. Mercury was not detected in EX-10-W5. Lead and cadmium toxicity characteristic leaching procedure (TCLP) was also conducted on this sample for disposal characterization purposes.

⁹This sample was subsequently re-analyzed for lead. The second time lead was detected at 370 parts per million.

¹⁰This sample was also submitted for chemical analysis of mercury using EPA Method 6020. Mercury was not detected (<1.0 parts per million).

¹¹Contaminated soil represented by this sample was left in place because it extends into the right-of-way and was not accessible.

¹²Contaminated soil represented by this sample was subsequently excavated and removed from the site for permitted disposal.

mg/kg = milligrams per kilogram

bgs = below ground surface

-- = Not Tested

NA = Not applicable.

MTCA - Model Toxic Control Act

Bolding indicates analyte was detected. Shading indicates that analyte was detected at concentrations greater than MTCA Method A cleanup levels.

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TABLE 3
SOIL CHEMICAL ANALYTICAL DATA - TEQ CALCULATIONS
INTERURBAN EXCHANGE 2
535 TERRY AVENUE NORTH, SEATTLE, WASHINGTON

Sample ID		TP-10-4		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.17	0.1	0.017	Detected
chrysene	0.29	0.01	0.003	Detected
benzo(b)fluoranthene	0.25	0.1	0.025	Detected
benzo(k)fluoranthene	0.36	0.1	0.036	Detected
benzo(a)pyrene	0.16	1.0	0.160	Detected
indeno(1,2,3-cd)pyrene	0.015	0.1	0.002	Not Detected
dibenzo(a,h)anthracene	0.015	0.4	0.003	Not Detected
Total			0.245	

Sample ID		EX-19-W5		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.97	0.1	0.097	Detected
chrysene	0.88	0.01	0.009	Detected
benzo(b)fluoranthene	1.3	0.1	0.130	Detected
benzo(k)fluoranthene	0.55	0.1	0.055	Detected
benzo(a)pyrene	1.7	1.0	1.700	Detected
indeno(1,2,3-cd)pyrene	0.78	0.1	0.078	Detected
dibenzo(a,h)anthracene	0.50	0.4	0.100	Detected
Total			2.169	

Sample ID		EX-20-W1.5		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	1.2	0.1	0.120	Detected
chrysene	1.2	0.01	0.012	Detected
benzo(b)fluoranthene	2.1	0.1	0.210	Detected
benzo(k)fluoranthene	0.75	0.1	0.075	Detected
benzo(a)pyrene	2.3	1.0	2.300	Detected
indeno(1,2,3-cd)pyrene	1.2	0.1	0.120	Detected
dibenzo(a,h)anthracene	0.76	0.4	0.152	Detected
Total			2.989	

Sample ID		EX-30-EL19		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.24	0.1	0.024	Detected
chrysene	0.16	0.01	0.002	Detected
benzo(b)fluoranthene	0.005	0.1	0.001	Not Detected
benzo(k)fluoranthene	0.15	0.1	0.015	Detected
benzo(a)pyrene	0.1	1.0	0.100	Detected
indeno(1,2,3-cd)pyrene	0.09	0.1	0.009	Detected
dibenzo(a,h)anthracene	0.07	0.4	0.014	Detected
Total			0.164	

Sample ID	EX-31-EL20			
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.13	0.1	0.013	Detected
chrysene	0.005	0.01	0.000	Not Detected
benzo(b)fluoranthene	0.005	0.1	0.001	Not Detected
benzo(k)fluoranthene	0.005	0.1	0.001	Not Detected
benzo(a)pyrene	0.005	1.0	0.005	Not Detected
indeno(1,2,3-cd)pyrene	0.005	0.1	0.001	Not Detected
dibenzo(a,h)anthracene	0.005	0.4	0.001	Not Detected
Total			0.021	

Sample ID	EX-34-EL20			
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.23	0.1	0.023	Detected
chrysene	0.15	0.01	0.002	Detected
benzo(b)fluoranthene	0.19	0.1	0.019	Detected
benzo(k)fluoranthene	0.13	0.1	0.013	Detected
benzo(a)pyrene	0.17	1.0	0.170	Detected
indeno(1,2,3-cd)pyrene	0.1	0.1	0.010	Detected
dibenzo(a,h)anthracene	0.1	0.4	0.020	Detected
Total			0.257	

Sample ID	EX-35-EL22.5			
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.19	0.1	0.019	Detected
chrysene	0.08	0.01	0.001	Detected
benzo(b)fluoranthene	0.11	0.1	0.011	Detected
benzo(k)fluoranthene	0.15	0.1	0.015	Detected
benzo(a)pyrene	0.06	1.0	0.060	Detected
indeno(1,2,3-cd)pyrene	0.08	0.1	0.008	Detected
dibenzo(a,h)anthracene	0.01	0.4	0.001	Detected
Total			0.115	

Sample ID	EX-36-EL23			
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.47	0.1	0.047	Detected
chrysene	0.16	0.01	0.002	Detected
benzo(b)fluoranthene	0.33	0.1	0.033	Detected
benzo(k)fluoranthene	0.24	0.1	0.024	Detected
benzo(a)pyrene	0.16	1.0	0.160	Detected
indeno(1,2,3-cd)pyrene	0.17	0.1	0.017	Detected
dibenzo(a,h)anthracene	0.00	0.4	0.000	Detected
Total			0.283	

Sample ID		EX-38-EL23		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	2.7	0.1	0.270	Detected
chrysene	1.4	0.01	0.014	Detected
benzo(b)fluoranthene	1.6	0.1	0.160	Detected
benzo(k)fluoranthene	1.7	0.1	0.170	Detected
benzo(a)pyrene	2.9	1.0	2.900	Detected
indeno(1,2,3-cd)pyrene	1.1	0.1	0.110	Detected
dibenzo(a,h)anthracene	1.0	0.4	0.200	Detected
Total			3.824	

Sample ID		EX-39-EL23		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	0.73	0.1	0.073	Detected
chrysene	0.21	0.01	0.002	Detected
benzo(b)fluoranthene	0.23	0.1	0.023	Detected
benzo(k)fluoranthene	0.31	0.1	0.031	Detected
benzo(a)pyrene	0.32	1.0	0.320	Detected
indeno(1,2,3-cd)pyrene	0.18	0.1	0.018	Detected
dibenzo(a,h)anthracene	0.01	0.4	0.001	Detected
Total			0.468	

Sample ID		EX-40-EL22		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	17	0.1	1.700	Detected
chrysene	9.4	0.01	0.094	Detected
benzo(b)fluoranthene	17	0.1	1.700	Detected
benzo(k)fluoranthene	20	0.1	2.000	Detected
benzo(a)pyrene	19.0	1.0	19.000	Detected
indeno(1,2,3-cd)pyrene	5.7	0.1	0.570	Detected
dibenzo(a,h)anthracene	1.4	0.4	0.280	Detected
Total			25.344	

Sample ID		EX-41-EL22		
	Detected Concentrations		TEQ	
Analyte	(mg/kg)	Cal TEF	(mg/kg)	Comments
benzo(a)anthracene	2.9	0.1	0.290	Detected
chrysene	2.1	0.01	0.021	Detected
benzo(b)fluoranthene	1.3	0.1	0.130	Detected
benzo(k)fluoranthene	1.1	0.1	0.110	Detected
benzo(a)pyrene	2.3	1.0	2.300	Detected
indeno(1,2,3-cd)pyrene	0.69	0.1	0.069	Detected
dibenzo(a,h)anthracene	0.6	0.4	0.124	Detected
Total			3.044	

Sample ID		EX-42-EL21		
Analyte	Detected Concentrations (mg/kg)	Cal TEF	TEQ (mg/kg)	Comments
benzo(a)anthracene	0.14	0.1	0.014	Detected
chrysene	0.009	0.01	0.000	Detected
benzo(b)fluoranthene	0.009	0.1	0.001	Detected
benzo(k)fluoranthene	0.1	0.1	0.010	Detected
benzo(a)pyrene	0.005	1.0	0.005	Not Detected
indeno(1,2,3-cd)pyrene	0.006	0.1	0.001	Detected
dibenzo(a,h)anthracene	0.005	0.4	0.001	Not Detected
Total			0.032	

Notes:

Calculated using the toxicity equivalency (TEQ) methodology specified in WAC 173-340-780(8). cPAHs that were not detected were assigned half the value of the detection limit for these calculations.

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TABLE 4
GROUNDWATER DISCHARGE SCREENING LEVELS AND DETECTED ANALYTE CONCENTRATIONS
INTERURBAN EXCHANGE 2
535 TERRY AVENUE NORTH, SEATTLE, WASHINGTON

Sample ID ¹	Sample Date	Depth to Groundwater (ft)	BETX (µg/L) ²				Petroleum Hydrocarbons (µg/L)				Total Metals ⁴ (µg/L)	
			B	E	T	X	Diesel Range ³	Heavy Oil Range ³	Mineral Oil Range ³	Gasoline Range ²	Cadmium	Lead
Dewatering Well Groundwater Samples												
DN1-050808	05/08/08	11.63	<1	<1	2.8	<2	<200	<500	<400	<100	--	52
DN5-050808	05/08/08	11.92	<1	<1	1.5	1.9	<200	<500	<400	<100	--	10
DN10-050708	05/07/08	12	20	16	19	23	<200	<500	<400	1,100	--	5
DN14-050808	05/08/08	13.03	24	16	28	33	<200	<500	<400	1,700	--	<2
Dewatering Effluent Discharge Samples												
Baker-1 ⁵	05/13/08	NA	1.7	<1.0	<1.0	<2.0	<200	<500	<400	120	--	3
Baker-2 ⁶	06/23/08	NA	<1.0	<1.0	<1.0	<1.0	<200	<500	<400	<100	<2	<2
Baker-3	06/24/08	NA	<1.0	<1.0	<1.0	<1.0	<200	<500	<400	<100	<2	<2
Baker-4	06/25/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	<100	<2	<2
Baker -5	06/26/08	NA	1.3	<1.0	<2.0	<2.0	<200	<500	<400	<100	<2	<2
Baker -6	06/27/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	150	<2	<2
Baker -7	07/02/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	110	<2	<2
Baker -8	07/09/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	<100	<2	<2
Baker -9	07/16/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	<100	<2	5.3
Baker -10	07/23/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	<100	<5	<4
Baker -11	07/30/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	<100	<5	<4
Baker -12	08/26/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	<100	<5	<4
Baker -13	09/30/08	NA	<1.0	<1.0	<2.0	<2.0	<200	<500	<400	<100	<5	<4
King County Discharge Screening Levels⁷			70	1,700	1,400	2,200	100,000 ⁸				600	4,000

Notes:

¹GeoEngineers Samples submitted to Fremont Analytical in Seattle, Washington.

²Analyzed by ecology Method NWTPH-Gx and 8021B.

³Analyzed by Ecology Method NWTPH-Dx.

⁴Analyzed by EPA Method 6020.

⁵This sample is referred to as BAY-051308 in the laboratory report.

⁶This sample was also analyzed for naphthalenes, EDB, EDC and MTBE. These compounds were not detected (less than the applicable clean up levels).

⁷According to our King County Wastewater Discharge Authorization Number 4147-01

⁸This is the King County Discharge Screening Level for FOG and refers to the sum of all of the detected petroleum hydrocarbons in the sample.

µg/L = micrograms per liter

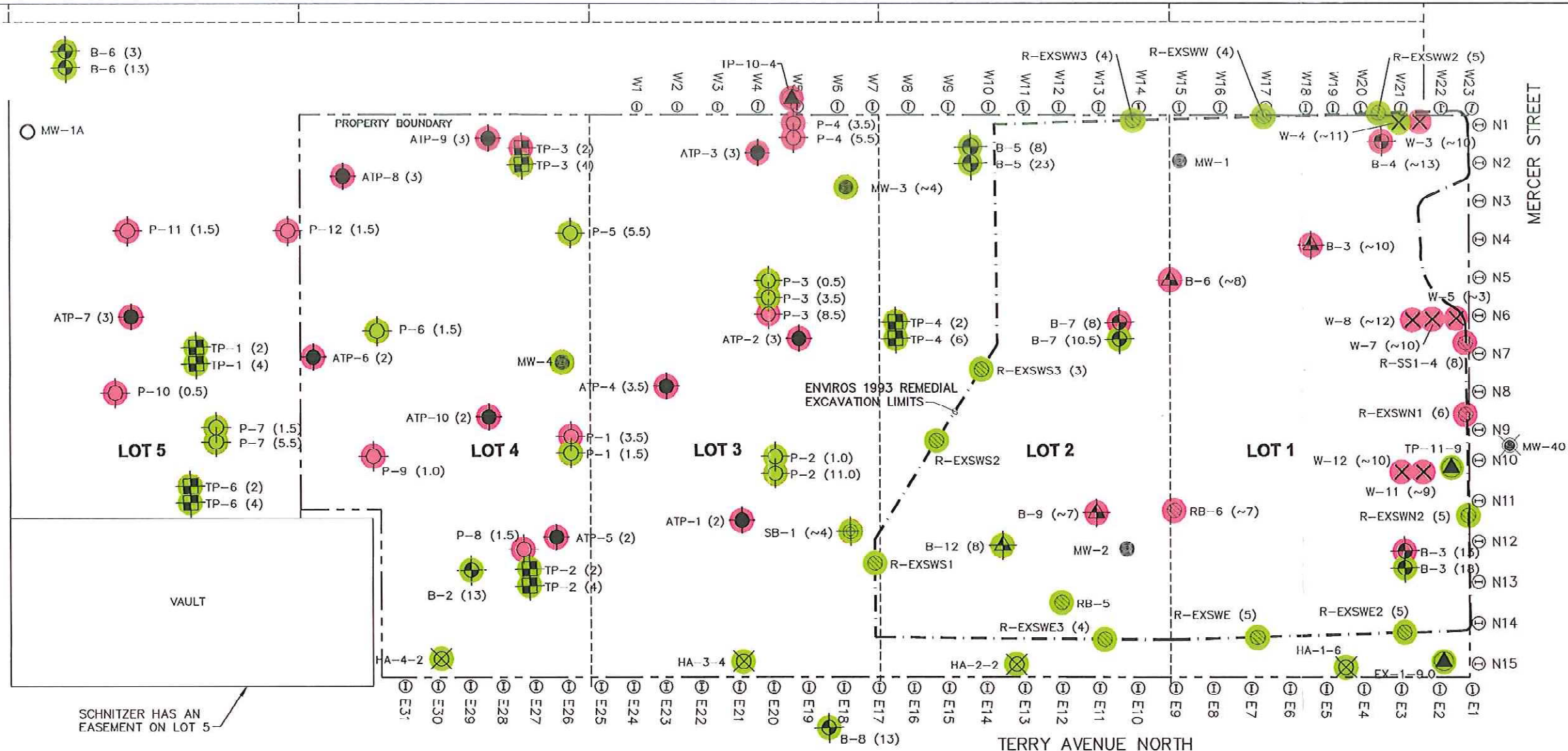
-- = Not Tested

MTCA - Model Toxic Control Act

Bolding indicates analyte was detected

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P:\17151002\UICAD\16-1-08\17151002\1-F2.DWG\TAB:F2 MODIFIED BY LKNOWLTON ON OCT 15, 2008 - 16:05



Legend

- P-7-1 GeoEngineers 2002 boring
- TP-1-1 Test pit completed 1999
- B-1-1 GeoEngineers 1998 boring
- B-9-1 GeoEngineers 1993 hand boring
- W-11-1 GeoEngineers 1993 soil sample
- MW-1-1 Secor 1994 monitoring well
- SB-1-1 Secor 1994 boring
- ATP-1-1 Adapt Engineering, Inc. 2006 test pits
- TP-1-1 GeoEngineers 2008 test pit soil sample
- TP-1-2 AGI Technologies 1994 test pit
- MW-1A-1 AGI Technologies 1994 monitoring well
- RB-6-1 Enviro 1993 excavation sample
- MW-40-1 Phillips/Tosco monitoring well
- - - Approximate limit of 1993 remedial excavation
- E31-1 Soldier pile
- HA-1-16 GeoEngineers 2008 hand auger boring

- Contaminants of concern were not detected or were detected at concentrations less than the applicable MTCA Method A cleanup levels.
- Contaminants of concern were detected at concentrations greater than the applicable MTCA Method A cleanup levels.

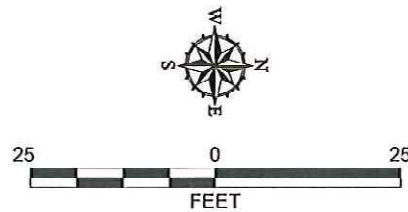
MTCA = Model Toxic Control Act

ATP-1 (2)
 └─── Depth below original ground surface. Original ground surface was approximately elevation 25 on Lots 3, 4 & 5 and elevation 25 - 30 on Lots 1 and 2.

Notes

1. The locations of all features shown are approximate.
2. See supporting tables for additional information. All depths are approximate.
3. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The master hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.
4. All monitoring wells have either been decommissioned or were destroyed during construction activities.

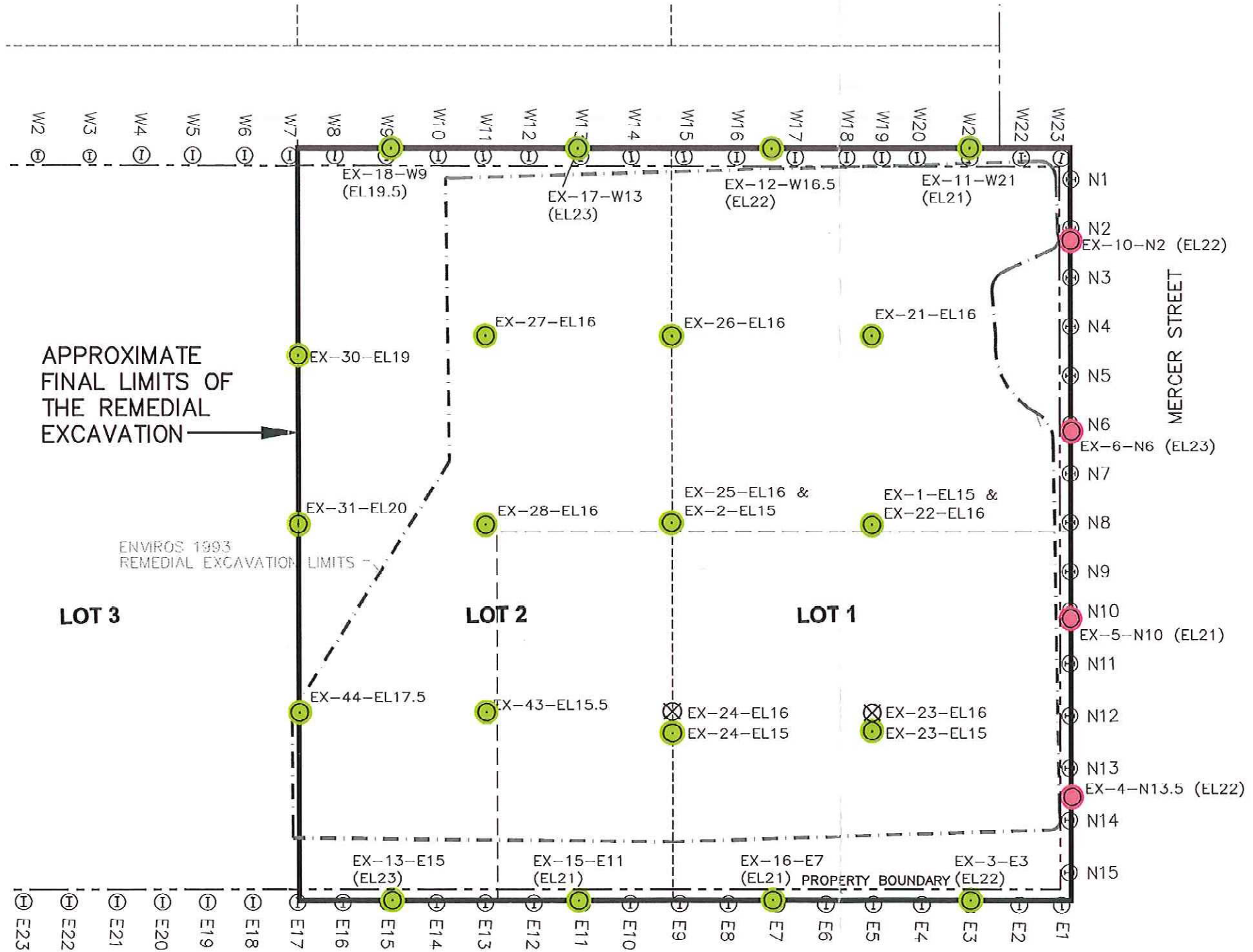
Reference: Drawing entitled "Interurban Exchange 2" by DCI Engineers D' Amato Conversano Inc., dated 04/01/02, and "Boundary & Topography Survey, U.W. Labs, South Lake Union" by Bush, Roed & Hitchings, Inc., dated 12/04/98.



Site Plan with Historic Soil Sample Locations	
Interurban Exchange 2 Seattle, Washington	
GEOENGINEERS	Figure 2

Legend

- - - Approximate limit of 1993 remedial excavation
- E31⊕ Soldier pile
- ⊙ Soil sample obtained in 2008 by GeoEngineers. Petroleum hydrocarbons and BTEX either were not detected or were detected at concentrations less than the applicable MTCA Method A clean-up levels.
- ⊙ Soil sample obtained in 2008 by GeoEngineers. Petroleum hydrocarbons and BTEX were detected at concentrations greater than the applicable MTCA Method A clean-up levels. Soil represented by this sample could not be excavated without risking damage to offsite utilities, roadways and/or sidewalks or utilizing extensive shoring.
- ⊗ Soil sample obtained in 2008 by GeoEngineers. Petroleum hydrocarbons and BTEX were detected at concentrations greater than the applicable MTCA Method A clean-up levels. Soil represented by this sample was subsequently over-excavated and transported to Allied Waste in Seattle, Washington for permitted disposal.
- [- -] Approximate limits of over-excavations. Soil represented by samples EX-24-EL16 and EX-23-EL16 were over-excavated and removed from the site for permitted disposal. Confirmation soil samples were obtained at the base of the over-excavation.
- EX-44-EL17.5
└─┬─┘ Approximate soil sample elevation
- EX-18-W9 (EL17.5)
└─┬─┘ Approximate soil sample elevation



Notes

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4. Confirmation soil samples were obtained in 2008 by GeoEngineers and were submitted for chemical analysis of petroleum hydrocarbons and associated constituents. Analytical data is summarized in Table 2.

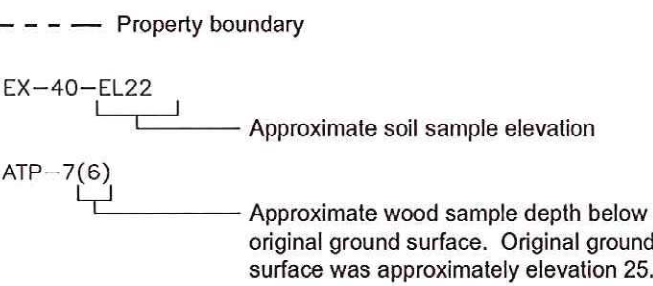
Reference: Drawing entitled "Interurban Exchange 2" by DCI Engineers D' Amato Conversano Inc., dated 04/01/02, and "Boundary & Topography Survey, U.W. Labs, South Lake Union" by Bush, Rood & Hitchings, Inc., dated 12/04/98.

Petroleum Hydrocarbon Remedial Excavation and Confirmation Soil Sample Locations Lots 1 and 2	
Interurban Exchange 2 Seattle, Washington	
GEOENGINEERS	Figure 3

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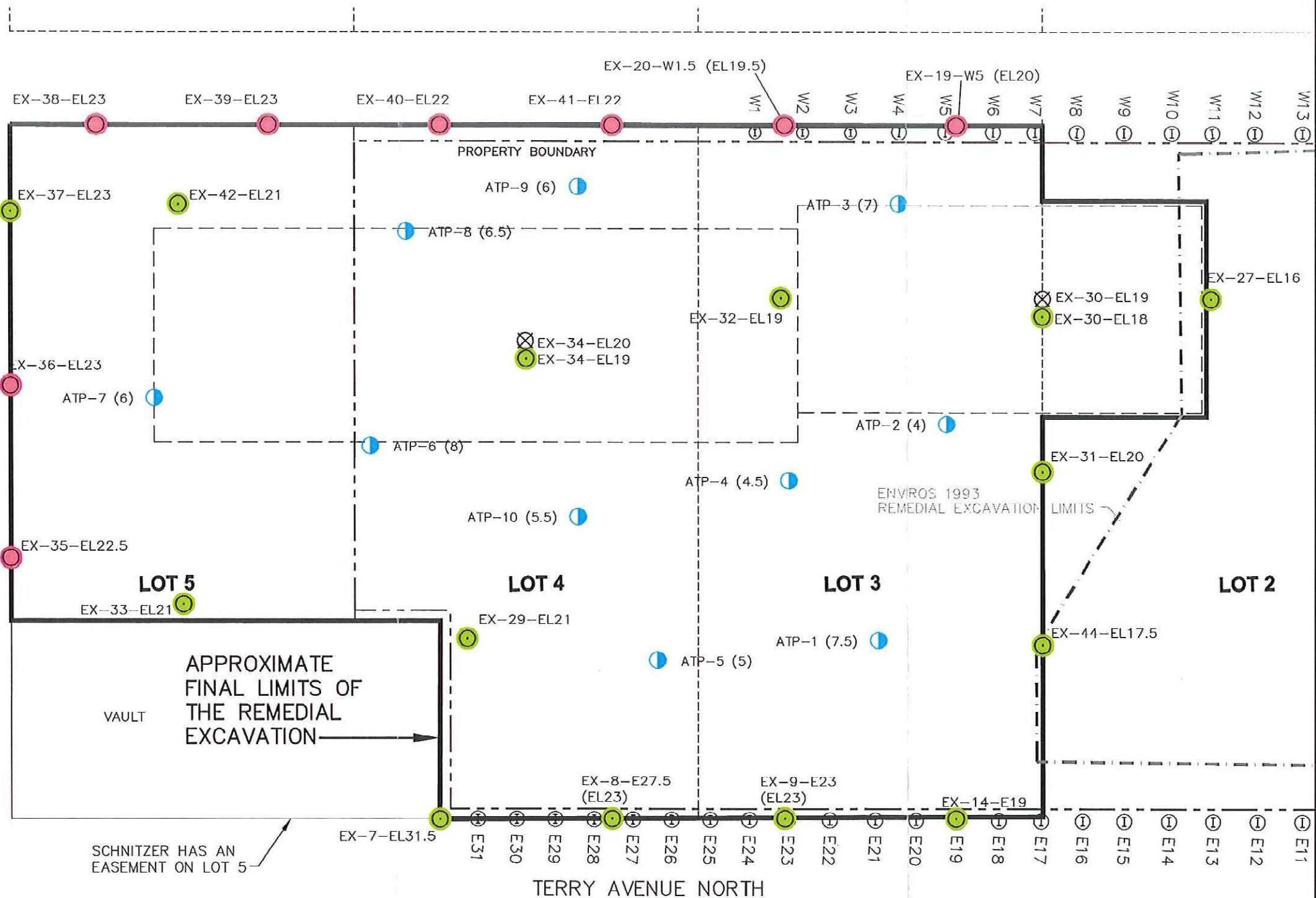
- - - Approximate limit of 1993 remedial excavation
- E31 ⊕ Soldier pile
- ⊙ Soil sample obtained in 2008 by GeoEngineers. PAHs, lead, and cadmium either were not detected or were detected at concentrations less than the applicable MTCA Method A clean-up levels.
- ⊙ Soil sample obtained in 2008 by GeoEngineers. PAHs, lead, and cadmium were detected at concentrations greater than the applicable MTCA Method A clean-up levels. Soil represented by this sample could not be excavated without risking damage to offsite utilities, roadways and/or sidewalks or utilizing extensive shoring.
- ⊗ Soil sample obtained in 2008 by GeoEngineers. PAHs, lead, and cadmium were detected at concentrations greater than the applicable MTCA Method A clean-up levels. Soil represented by this sample was subsequently over-excavated and transported to Allied Waste in Seattle, Washington for permitted disposal.
- ⊙ Wood sample obtained in 2006 by Adapt Engineering. PAHs, lead, and cadmium either were not detected or were detected at concentrations less than the applicable MTCA Method A clean-up levels.
- ⌊ - - - ⌋ Approximate limits of over-excavations. Soil represented by samples EX-34-EL20 and EX-30-EL19 were over-excavated and removed from the site for permitted disposal. Final confirmation soil samples were obtained at the base of the over-excavation.
- - - Property boundary



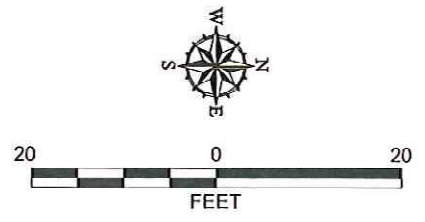
Notes

1. The locations of all features shown are approximate.
2. See supporting tables for additional information. All depths are approximate.
3. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The master hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.
4. Confirmation soil samples were obtained in 2008 by GeoEngineers and in 2006 by Adapt Engineering and were submitted for chemical analysis of cadmium, lead and/or PAHs. Analytical data is summarized in Table 3.

Reference: Drawing entitled "Interurban Exchange 2" by DCI Engineers D' Amato Conversano Inc., dated 04/01/02, and "Boundary & Topography Survey, U.W. Labs, South Lake Union" by Bush, Roed & Hitchings, Inc., dated 12/04/98.



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PAH, Lead, and Cadmium Remedial Excavation and Confirmation Soil Sample Locations Lots 3, 4 and 5	
Interurban Exchange 2 Seattle, Washington	
GEOENGINEERS	Figure 4