



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

June 13, 2019

Brian Doan
SCS Engineers
2405 140th Avenue NE, Suite 107
Bellevue, WA 98005

Re: Analytical Data for Project 04218014.00
Laboratory Reference No. 1906-028

Dear Brian:

Enclosed are the analytical results and associated quality control data for samples submitted on June 5, 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: June 13, 2019
Samples Submitted: June 5, 2019
Laboratory Reference: 1906-028
Project: 04218014.00

Case Narrative

Samples were collected on June 4, 2019 and received by the laboratory on June 5, 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: June 13, 2019
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 Laboratory Reference: 1906-028
 Project: 04218014.00

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	06-028-01					
Stoddard Solvent	ND	100	NWTPH-Gx	6-11-19	6-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	59-122				
Client ID:	MW-2					
Laboratory ID:	06-028-02					
Stoddard Solvent	ND	100	NWTPH-Gx	6-11-19	6-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	80	59-122				
Client ID:	MW-3					
Laboratory ID:	06-028-03					
Stoddard Solvent	ND	100	NWTPH-Gx	6-11-19	6-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	79	59-122				



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**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:	MB0611W3					
Stoddard Solvent	ND	100	NWTPH-Gx	6-11-19	6-11-19	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	73	59-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-028-01							
	ORIG	DUP						
Stoddard Solvent	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				93	75	59-122		



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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:	MW-1					
Laboratory ID:	06-028-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	6-10-19	6-11-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-10-19	6-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	MW-2					
Laboratory ID:	06-028-02					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-10-19	6-11-19	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	6-10-19	6-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Client ID:	MW-3					
Laboratory ID:	06-028-03					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-10-19	6-11-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-10-19	6-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	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:	MB0610W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	6-10-19	6-11-19	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	6-10-19	6-11-19	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0610W1							
	ORIG	DUP						
Diesel Fuel #2	0.829	0.763	NA	NA	NA	NA	8	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				92	82	50-150		



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**TOTAL METALS
 EPA 200.8/7470A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1					
Laboratory ID:	06-028-01					
Arsenic	11	3.3	EPA 200.8	6-11-19	6-11-19	
Barium	ND	28	EPA 200.8	6-11-19	6-11-19	
Cadmium	ND	4.4	EPA 200.8	6-11-19	6-11-19	
Chromium	ND	11	EPA 200.8	6-11-19	6-11-19	
Lead	ND	1.1	EPA 200.8	6-11-19	6-11-19	
Mercury	ND	0.50	EPA 7470A	6-11-19	6-11-19	
Selenium	ND	5.6	EPA 200.8	6-11-19	6-11-19	
Silver	ND	11	EPA 200.8	6-11-19	6-11-19	

Client ID:	MW-2					
Laboratory ID:	06-028-02					
Arsenic	ND	3.3	EPA 200.8	6-11-19	6-11-19	
Barium	ND	28	EPA 200.8	6-11-19	6-11-19	
Cadmium	ND	4.4	EPA 200.8	6-11-19	6-11-19	
Chromium	ND	11	EPA 200.8	6-11-19	6-11-19	
Lead	ND	1.1	EPA 200.8	6-11-19	6-11-19	
Mercury	ND	0.50	EPA 7470A	6-11-19	6-11-19	
Selenium	ND	5.6	EPA 200.8	6-11-19	6-11-19	
Silver	ND	11	EPA 200.8	6-11-19	6-11-19	

Client ID:	MW-3					
Laboratory ID:	06-028-03					
Arsenic	21	3.3	EPA 200.8	6-11-19	6-11-19	
Barium	ND	28	EPA 200.8	6-11-19	6-11-19	
Cadmium	ND	4.4	EPA 200.8	6-11-19	6-11-19	
Chromium	ND	11	EPA 200.8	6-11-19	6-11-19	
Lead	ND	1.1	EPA 200.8	6-11-19	6-11-19	
Mercury	ND	0.50	EPA 7470A	6-11-19	6-11-19	
Selenium	ND	5.6	EPA 200.8	6-11-19	6-11-19	
Silver	ND	11	EPA 200.8	6-11-19	6-11-19	



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**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0611WM1					
Arsenic	ND	3.3	EPA 200.8	6-11-19	6-11-19	
Barium	ND	28	EPA 200.8	6-11-19	6-11-19	
Cadmium	ND	4.4	EPA 200.8	6-11-19	6-11-19	
Chromium	ND	11	EPA 200.8	6-11-19	6-11-19	
Lead	ND	1.1	EPA 200.8	6-11-19	6-11-19	
Selenium	ND	5.6	EPA 200.8	6-11-19	6-11-19	
Silver	ND	11	EPA 200.8	6-11-19	6-11-19	

Laboratory ID:	MB0611W1					
Mercury	ND	0.50	EPA 7470A	6-11-19	6-11-19	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-028-03							
	ORIG	DUP						
Arsenic	20.6	20.3	NA	NA	NA	NA	1	20
Barium	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	06-084-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	06-028-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	126	130	111	111	20.6	95	99	75-125	3	20
Barium	112	116	111	111	ND	101	105	75-125	4	20
Cadmium	101	105	111	111	ND	91	95	75-125	4	20
Chromium	100	104	111	111	ND	90	94	75-125	4	20
Lead	97.8	102	111	111	ND	88	92	75-125	4	20
Selenium	116	122	111	111	ND	105	110	75-125	4	20
Silver	107	115	111	111	ND	97	104	75-125	7	20

Laboratory ID:	06-084-01									
Mercury	6.25	5.50	6.25	6.25	ND	100	88	75-125	13	20



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Data Qualifiers and Abbreviations

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



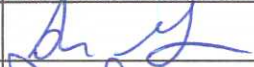

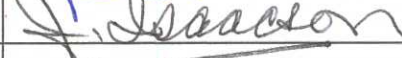

Chain of Custody

Company: SCS Engineers
 Project Number: 04218014.00
 Project Name: Bellevue South
 Project Manager: Brian Doan
 Sampled by: Sam Grabar

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

Laboratory Number: 06-028

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx Mineral Spirits	NWTPH-DX (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	MW-1	6/4/19	1010	water	6			X	X										X					
2	MW-2	↓	1135	↓	6			↓	↓										↓					
3	MW-3	↓	1326	↓	5			↓	↓															

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		SCS	6/5/19	1005	
Received		ALPHA	4/5/19	10:05	
Relinquished		ALPHA	4/5/19	10:21	
Received		OSE	6/5/19	1021	
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"/>