

975 5th Avenue Northwest, Issaquah, Washington 98027 Tel: (425) 295-0800 Fax: (425) 295-0850 www.farallonconsulting.com

RECEIVED

DEC 0 6 2010 WA State Department of Ecology (SWRO)

December 1, 2010

Mr. Chuck Cline Washington State Department of Ecology Southwest Regional Office PO Box 47775 Olympia, Washington 98504

RE: RISK-BASED CLEANUP LEVEL CALCULATION FOR PETROLEUM-CONTAMINATED SOIL WOODWORTH LAKEVIEW FACILITY 2800 104TH STREET SOUTH, LAKEWOOD, WASHINGTON VCP PROJECT NO: SW1012 FARALLON PN: 188-002

Dear Mr. Cline:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter on behalf of Woodworth Capital, Inc. (formerly Woodworth & Company, Inc.) to confirm that the Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B risk-based Site-specific cleanup level for total petroleum hydrocarbons, including as diesel-range organics (DRO) and/or as oil-range organics (ORO), in soil calculated for a portion of the Woodworth Lakeview Facility at 2800 104th Street South in Lakewood, Washington (herein referred to as the Site) is protective of human health and the environment and will meet the requirements of a No Further Action (NFA) determination for the approved cleanup action. The approved cleanup action consists of excavation and on-Site recycling or off-Site disposal of soil with concentrations of DRO and/or ORO that exceed the MTCA Method A cleanup levels in accordance with the results of the Remedial Investigation/Feasibility Study Report, Woodworth & Company, Inc., Lakeview Facility, 2800 104th Street South, Lakewood, Washington dated August 19, 2009 (RI/FS) and the Engineering Design Report, Woodworth Capital, Inc., Formerly Known as Woodworth & Company, Inc., Lakeview Facility, 2800 104th Street South, Lakewood, Washington dated January 20, 2010 (EDR) both prepared by Farallon and submitted to and approved by the Washington State Department of Ecology (Ecology) in the Opinion Letter dated January 17, 2010.

The volume of soil with concentrations of ORO and/or DRO above the MTCA Method A cleanup levels is significantly greater than estimated in the EDR Area of Concern (AOC) 2 and AOC 3 (Figure 1). Therefore, to minimize the volume of soil that will require removal and to provide a cost-effective cleanup action, Farallon evaluated whether a Site-specific MTCA Method B cleanup level for DRO and/or ORO in soil would be protective of human health and the environment. Farallon collected groundwater samples for laboratory analysis in the areas where concentrations of DRO and/or ORO exceed the MTCA Method A cleanup levels in soil, and collected and analyzed soil samples to calculate MTCA Method B cleanup levels.



Washington State Department of Ecology Southwest Regional Office December 1, 2010 Page 2

This letter report provides background information pertaining to the basis for use of MTCA Method B cleanup levels, including the analytical results of soil and groundwater samples, results of MTCA Method B cleanup level calculations, and Farallon's conclusions, including work planned to complete the cleanup action. The ongoing cleanup action is being conducted as an independent action under the Ecology Voluntary Cleanup Program and has been assigned Toxics Cleanup Program Identification No. SW1012.

BACKGROUND

Concentrations of DRO and/or ORO exceeding the MTCA Method A cleanup levels for unrestricted land uses were detected in soil at three areas of the Site, as summarized in the RI/FS. AOC 1, AOC 2, and AOC 3 are shown on Figure 1 and include:

- AOC 1—Equipment Storage Carport Area;
- AOC 2—Equipment Parking Area; and
- AOC 3—Former Recycled Stockpile Area.

The Ecology-approved scope of work for the cleanup action at the Site is defined in the EDR and includes excavation and on-Site recycling or off-Site disposal of soil with concentrations of DRO and/or ORO exceeding the MTCA Method A cleanup levels. Soil with concentrations of DRO and/or ORO above the MTCA Method A cleanup levels has been excavated from AOC 1 and no further excavation is necessary. Excavation of soil with concentrations of DRO and/or ORO above the applicable MTCA cleanup levels is currently ongoing at AOC 2 and AOC 3.

MTCA METHOD B CLEANUP LEVEL EVALUATION

GROUNDWATER

The first step in the evaluation of whether a Site-specific risked-based MTCA Method B cleanup level for DRO and/or ORO in soil was protective of human health and the environment in AOC 2 and AOC 3 consisted of determining if the DRO and/or ORO in soil was a source to groundwater in these areas. Analytical results from 2008 through 2010 for the groundwater samples collected in AOC 2 from monitoring well MW-13 have not detected concentrations of DRO and/or ORO above the laboratory practical quantitation limit (PQL) of the analytical method (Figure 2; Table 1). Monitoring well MW-13 is screened in the uppermost water-bearing zone. Groundwater was not encountered in borings located in AOC 3 during the RI/FS field sampling. However, groundwater has been observed in test pits recently excavated to collect performance and confirmation soil samples in AOC 3. Farallon installed and collected groundwater samples from monitoring well MW-24, located in the central portion of AOC 3 and constructed to screen the uppermost water-bearing zone, to determine if concentrations of DRO and/or ORO exceeded the MTCA Method A cleanup levels for groundwater (Figure 3). The analytical results of groundwater samples collected from monitoring well MW-24 did not detect concentrations of DRO or ORO at or above the laboratory PQLs of the analytical method (Table 1). The boring log for monitoring well MW-24 is provided in Attachment A. The laboratory analytical reports are provided in Attachment B.



Washington State Department of Ecology Southwest Regional Office December 1, 2010 Page 3

Analytical results of groundwater samples collected from monitoring wells in areas AOC 2 and AOC 3 have not detected concentrations of DRO or ORO above the laboratory PQL. Therefore, the soil to groundwater pathway is incomplete and the concentrations of DRO and ORO in soil are not a source of contamination to groundwater.

CLEANUP LEVEL CALCULATION

Farallon recently collected soil samples from areas AOC 2 and AOC 3 for laboratory analysis to calculate a Site-specific MTCA Method B cleanup level for total petroleum hydrocarbons in soil that is protective of human health and the environment. The analyses and calculation were conducted in accordance with the Ecology guidance document *Workbook Tools for Calculating Soil and Ground Water Cleanup Levels Under the Model Toxics Control Act Cleanup Regulation: Users Guide 11.1*, revised December 2007 (Ecology Publication No. 01-09-073),

A total of 16 soils samples were analyzed from AOC 2, and 65 soil samples were analyzed from AOC 3 for the RI/FS and recently for the excavation confirmation sampling (Figures 2 and 3). Analytical results of soil samples collected from AOC 2 detected concentrations of DRO ranging from 100 to 1,600 milligrams per kilogram (mg/kg), and ORO ranging from 320 to 15,000 mg/kg (Table 2). Analytical results of soil samples collected from AOC 3 detected concentrations of DRO ranging from 27 to 7,600 mg/kg, and ORO ranging from 75 to 9,800 mg/kg (Table 3). These sampling data were used to identify locations to select representative soil samples for evaluation of MTCA Method B cleanup levels.

Soil samples were collected from AOC 2 (A2-B1-P-100510-2.0) and from AOC 3 (A3-B2-P-100510-4.5) in October 2010 at locations where the highest concentrations of DRO and/or ORO were previously detected in the two AOCs (Figures 2 and 3). The soil samples were analyzed for parameters required to calculate MTCA Method B cleanup levels, including benzene, toluene, ethylbenzene, and xylenes (BTEX) by U.S. Environmental Protection Agency (EPA) Method 8021B; polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270D/SIM; and extractable petroleum hydrocarbons by Northwest Method NWTPH-EPH. A soil sample collected from below the contaminated zone in the excavation in AOC 3 (Figure 3, A3-C3-BTM-092210-8.0) was analyzed for total organic carbon by EPA Method 9060. The analytical results for BTEX are included in Tables 2 and 3. The analytical results for non-carcinogenic and carcinogenic PAHs in soil are summarized in Tables 4 and 5, respectively. Analytical results for extractable petroleum hydrocarbons and total organic carbon are provided in Table 6.

The analytical results for PAHs, BTEX, and extractable petroleum hydrocarbons for the soil samples recently collected at AOC 2 and AOC 3 were entered into the Ecology Publication No. 01-09-073 worksheet for soil data entry. The default parameters developed by Ecology were used for hydrogeologic data entry (Attachment C). Because total organic carbon was not detected at or above the PQL for the analytical method, a default value provided in the calculation spreadsheet was used.



Washington State Department of Ecology Southwest Regional Office December 1, 2010 Page 4

Based on the chemical composition of the petroleum hydrocarbon constituents present, the total petroleum hydrocarbon concentration (sum of DRO and ORO) in soil protective of human health by direct contact was calculated to be:

- 3,699 mg/kg for AOC 2; and
- 3,739 mg/kg for AOC 3.

Ecology Publication No. 01-09-073 requires an assessment for residual saturation or an empirical demonstration to ensure that concentrations of petroleum hydrocarbons detected in soil will not result in the accumulation of nonaqueous phase liquid on or in groundwater. As discussed in the Background section above, the analytical results of groundwater samples collected from monitoring wells located in the areas where concentrations of DRO and/or ORO were detected in soil in AOC 2 and AOC 3 did not detect concentrations of DRO and ORO in groundwater above the laboratory PQLs, confirming that the ORO and DRO in soil is not a source to groundwater.

Ecology Publication No. 01-09-073 requires a determination if a simplified or Site-specific Terrestrial Ecological Evaluation is required. The RI/FS approved by Ecology confirmed and documented that the Site qualifies for a Terrestrial Ecological Evaluation exclusion based on the lack of undeveloped land on or within 500 feet of the Site, as set forth in Section 7491 of Chapter 173-340 of Washington Administrative Code.

CONCLUSIONS

The results of the calculation of a Site-specific MTCA Method B cleanup level for DRO and/or ORO in soil in AOC 2 and AOC 3 conducted in accordance with Ecology Publication No. 01-09-073 confirm that the MTCA Method B cleanup levels for total petroleum hydrocarbons (sum of DRO and ORO) in soil are protective of human health and the environment. The cleanup action for excavation of soil in AOC 2 and AOC 3 containing concentrations of total petroleum hydrocarbons will proceed based on the calculated Site-specific MTCA Method B cleanup levels. Soil with concentrations of total petroleum hydrocarbons (sum of DRO and ORO) above 3,699 mg/kg will be excavated from AOC 2. Soil with concentrations of total petroleum hydrocarbons (sum of DRO and ORO) above 3,739 mg/kg will be excavated from AOC 3.

The chemical composition of the petroleum hydrocarbon constituents that will remain in soil after completion of the cleanup action using the MTCA Method B cleanup levels in AOC 2 and AOC 3 will not pose a threat to human health via the direct contact pathway and are protective of groundwater quality via the leaching pathway. Farallon requests confirmation from Ecology that the Site-specific MTCA Method B cleanup levels calculated for soil in AOC 2 and AOC 3 are protective of human health and the environment, and that the completion of the cleanup action in AOC 2 and AOC 3 using the MTCA Method B cleanup levels will result in a No Further Action determination for the Site.

G:\Projects\188002 Woodworth Lakeview Facility Remediation\Correspondence\MTCA Method B Ltr\MTCA Method B ltr.docx



Farallon trusts that this provides sufficient information for your needs. Feel free to contact either of the undersigned at (425) 295-0800 if you have questions or comments.

Sincerely,

Farallon Consulting, L.L.C randar Sed BRANISLAV JURISTA Brani Jurista, L.G. Peter Jewett, L.G., L.E.G. Associate Geologist Principal Engineering Geologist Attachments: Figure 1, Cleanup Action Areas for Petroleum Hydrocarbons Figure 2, AOC 2 Soil Sample Locations Figure 3, AOC 3 Soil Sample Locations Table 1, Groundwater Analytical Results for Petroleum Hydrocarbons and BTEX Table 2, Soil Analytical Results for Petroleum Hydrocarbons and BTEX in AOC 2 Table 3, Soil Analytical Results for Petroleum Hydrocarbons and BTEX in AOC 3 Table 4, Soil Analytical Results for Non-Carcinogenic Polycyclic Aromatic *Hydrocarbons* Table 5, Soil Analytical Results for Carcinogenic Polycyclic Aromatic Hydrocarbons Table 6, Soil Analytical Results for Extractable Petroleum Hydrocarbons and Total Organic Carbon Attachment A, Boring Log Attachment B, Laboratory Analytical Reports Attachment C, Soil Cleanup Level Worksheets Mr. Jeff Woodworth; Woodworth Capital, Inc. cc: Mr. Clark Davis; Davis Law Office, PLLC BJ/PJ:bjj

FIGURES

RISK-BASED CLEANUP LEVEL CALCULATION FOR PETROLEUM-CONTAMINATED SOIL Woodworth Lakeview Facility Lakewood, Washington VCP Project No: SW1012

Farallon PN: 188-002

G:\Projects\188002 Woodworth Lakeview Facility Remediation\Correspondence\MTCA Method B Ltr\MTCA Method B ltr.docx





TABLES

RISK-BASED CLEANUP LEVEL CALCULATION FOR PETROLEUM-CONTAMINATED SOIL Woodworth Lakeview Facility Lakewood, Washington VCP Project No: SW1012

Farallon PN: 188-002



 Table 2

 Soil Analytical Results for Petroleum Hydrocarbons and BTEX in AOC 2

 Woodworth Lakeview Facility

 Lakewood, Washington

 Farallon PN: 188-002

ſ	· · · · ·				Analytical Results (milligrams per kilogram)							
	Sample Identification	Cell Identification	Sample Date	Depth (feet bgs) ¹	GRO ²	DRO ³	ORO ³	Total Petroleum Hydrocarbons⁴	Benzene ⁵	Toluene ⁵	Ethylbenzene ⁵	Total Xylenes ⁵
					A	Area of Conce	rn 2					
4	A2-A0-SW-110410-1.5	A-0	11/4/2010	1.5	_	150	570	720	_	—	_	
	SS6-2.5-100708	A-1	10/7/2008	2.5	<5.3	<880	4,000	4,000	<0.020	<0.053	< 0.053	<0.106
	A2-1-040710-4	A-1	4/7/2010	4.0	_	160	870	1,030	—	_		
Ĩ	A2-2-040710-1.5	A-1	4/7/2010	1.5		470	1,600	2,070	_			
, [A2-4-040710-3	A-1	4/7/2010	3.0	_	<1,300	15,000	15,000		—		—
,	A2-A1-P-100510-1.5	A-1	10/5/2010	1.5	_	<320	3,900	3,900	_	—	—	—
	A2-A1-BTM-110310-2.5	A-1	11/3/2010	2.5		100	760	860	_		_	
	A2-8-040810-2	A-2	4/8/2010	2.0		<32	320	320	_	_	_	
Ī	A2-A2-SW-110410-4.0	A-2	11/4/2010	4.0		110	600	710		_		
	A2-A2-BTM-110310-4.0	A-2	11/3/2010	4.0		<48	480	480	_	_		_
,	A2-B0-SW-110310-1.5	B-0	11/3/2010	1.5		120	630	750			_	
~	A2-7-040810-1.5	B-1	4/8/2010	1.5		520	4,200	4,720	—			
- [A2-B1-SW-110310-1.5	B-1	11/3/2010	1.5		<110	800	800	—	—		_
	A2-B1-BTM-110310-2.0	B-1	11/3/2010	2.0	_	110	400	510	_			_
	A2-B1-P-100510-2.0	B-2	10/5/2010	2.0	_	1,600	1,100	2,700	<0.020	< 0.052	<0.052	<0.104
	A2-C1-SW-110310-1.5	C-1	11/3/2010	1.5	—	180	820	1,000	_			
	MTCA Method A Cleanup Lev	vels ⁶			1007	2,000	2,000	NC	0.03	7	6	9
	Calculated Method B Cleanup	Levels ⁸		NC NC NC 3,699 NC NC NC								NC

NOTES:

1.2

Results in bold denote concentrations exceed Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil cleanup levels (see footnote 6).

Results in cells with a heavy-line border denote concentrations exceed calculated Method B Soil cleanup levels (see footnote 7).

< denotes analyte not detected at or above the reporting limit listed.

--- = denotes sample not analyzed

¹ Depth in feet below ground surface (bgs).

² Analyzed by Northwest Method NWTPH-Gx.

³ Analyzed by Northwest Method NWTPH-Dx.

⁴ Sum of GRO, DRO, and ORO concentrations

⁵ Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260B.

⁶ MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2007.

⁷The cleanup level for GRO is without the presence of benzene.

⁸ Method B Soil Cleanup Level for Unrestricted Land Uses, as calculated using Workbook Tools for Calculating Soil and Ground Water Cleanup Levels under the MTCA, Revised December 2007.

AOC = area of concern

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics GRO = TPH as gasoline-range organics ORO = TPH as oil-range organics NC= not calculated

Table 3 Soil Analytical Results for Petroleum Hydrocarbons and BTEX in AOC 3 Woodworth Lakeview Facility Lakewood, Washington Farallon PN: 188-002

Sample Identification Cell Identification Sample Date Depth (fet bgs) ¹ GRO ³ DRO ³ Total Petroleum Hydrocarbons ⁴ Benzene ⁵ Toluene ⁵ Ethylbenzene ⁵ Toluene ⁵ Toluene ⁵	
Sample Nembrane Centre of Marking and Sample Date (ref dgs) Create of Concert 3 A3-A00-SW-100110-2.5 A-00 10/1/2010 2.5 - 140 1,000 1,140 - - - - A3-A0-SW-100110-2.8 A-0 10/1/2010 2.8 - 310 660 970 -	otal Xvlenes ⁵
Area of Concerns A3-A00-SW-100110-2.5 A-00 10/1/2010 2.5 140 1,000 1,140	
A3-A00-SW-100110-2.5 A-00 10/1/2010 2.5 140 1,000 1,140 A3-A0-SW-100110-2.8 A-0 10/1/2010 2.8 310 660 970 <td></td>	
A3-A05SW-100110-2.8 A-0 10/1/2010 2.8 - 310 600 970 -	
A3-A1-SW-100110-3.0 A-1 10//2010 3.0 830 2,300 5.150 <	
A3-A2-SW-092010-4.0 A-2 9/20/2010 4.0 - 390 240 630 -	
A3-A2-SW-102810-5.5 A-2 10/28/2010 5.5 3,000 96 3,096	
A3-A2-BTM-092010-6.5 A-2 9/20/2010 6.5 - <29 <38 <87 -	
A3-5-040810-3.5 A-3 4/8/2010 3.5 190 290 480 A3-5-040810-3.5 B-0 9/20/2010 4.0 290 480 </td <td></td>	
- A3-B0-SW-092010-4.0 B-0 9/20/2010 4.0 - <2/ <54 <81	
- A3-2-040810-4.5 B-1 4/8/2010 4.5 - 770 4,700 5,470	
A3-B1-SW-092010-4.0 B-1 9/20/2010 4.0 - 550 2,100 2,650	
A3-B1-SW-102610-4.0 B-1 10/26/2010 4.0 - 4,000 2,600 6,600	
A3-B1-BTM-092010-6.5 B-1 9/20/2010 6.5 - <28 75 75	
- <u>S\$12-4-093008</u> B-2 9/30/2008 4.0 - 2,300 660 2,960	
SS12-8-093008 B-2 9/30/2008 8.0 - <27 <54 <81	
SS12-16-093008 B-2 9/30/2008 16.0 - <27 <54 <81	
- <u>A3-1-040810-4</u> <u>B-2</u> <u>4/8/2010</u> <u>4.0</u> <u></u> <u>1,400</u> <u>5,800</u> <u>7,200</u> <u></u> <u></u> <u></u>	
A3-B2-P-100510-4.5 B-2 10/5/2010 4.5 — 5,800 4,600 10,400 <0.020 <0.070 <0.070	<0.092
A3-B2-SW-092010-4.0 B-2 9/20/2010 4.0 - 66 540 606	
A3-B2-BTM-092010-6.5 B-2 9/20/2010 6.5 - <28 <55 <83	
A3-4-040810-4 B-3 4/8/2010 4.0 - 3,200 680 3,880	_
A3-B3-SW-092210-5.0 B-3 9/22/2010 5.0 - 290 1,200 1,490	
A3-B3-BTM-092210-8.0 B-3 9/22/2010 8.0 - 31 100 131	
A3-B4-SW-092110-5.0 B-4 9/21/2010 5.0 - 73 370 443	
A3-B4-SW-102610-3.5 B-4 10/26/2010 3.5 - 2,800 480 3,280	_
A3-B4-SW-102610-4.0 B-4 10/26/2010 4.0 - 1,800 270 2,070	
A3-B4-BTM-102810-6.0 B-4 10/28/2010 6.0 3,100 130 3,230	_
A3-C00-SW-110210-5.0 C-00 11/2/2010 5.0 - <170 1.500 1.500	_
A3-C0-SW-092910-5.0 C-0 9/29/2010 5.0 - <140 1,100 1,100	
A3-C1-SW-092110-5.0 C-1 9/21/2010 5.0 - <210 3,100 3,100	_
A3-C1-SW-102610-4.5 C-1 10/26/2010 4.5 - 1.000 320 1.320	_
A3-C1-BTM-092110-6.5 C-1 9/21/2010 6.5 - <140 900 900	_
A3-3-040810-4.5 C-2 4/8/2010 4.5 - 2,700 780 3,480	
A3-C2-BTM-092110-8.0 C-2 9/21/2010 8.0 - 64 180 244	_
A3-C3-P-100510-3.2 C-3 10/5/2010 3.2 - 1.000 1.000 2.000	_
A3-C3-BTM-092210-8.0 C-3 9/22/2010 8.0 <28 <55 <83	
A3-C4-BTM-092110-9.0 C-4 9/21/2010 9.0 - <28 83 83	
A3-C4-SW-102610-45 C-4 10/26/2010 4.5 - 540 130 670	
A3-C5-SW-092210-5.0 C-5 9/22/2010 5.0 - 270 780 1.050	

20

Table 3 Soil Analytical Results for Petroleum Hydrocarbons and BTEX in AOC 3 Woodworth Lakeview Facility Lakewood, Washington Farallon PN: 188-002

				Analytical Results (milligrams per kilogram)							
Sample Identification	Cell Identification	Sample Date	Depth	GRO ³	DRO ³	ORO ³	Total Petroleum Hydrocarbons ⁴	Benzene ⁵	Toluene ⁵	Ethylbenzene ⁵	Total Xylenes ⁵
A3-D00-SW-092910-5.0	D-00	9/29/2010	5.0	_	140	1,100	1,240		_		_
A3-D0-SW-092910-4.5	D-0	9/29/2010	4.5	_	<390	3,800	3,800	_	_		
A3-D0-SW-102610-4.5	D-0	10/26/2010	4.5	_	7,600	9,800	17,400	_		_	_
A3-D0-SW-102610-4.3	D-0	10/26/2010	4.3		350	4,400	4,750			_	_
A3-D0-SW-102610-4.2	D-0	10/26/2010	4.2		<830	8,400	8,400			_	_
A3-D0-SW-102610-4.4	D-0	10/26/2010	4.4		<160	2,000	2,000	_	_		
A3-D0-BTM-092910-5.5	D-0	9/29/2010	5.5		170	2,200	2,370	_	_	_	
A3-D1-SW-092110-5.0	D-1	9/21/2010	5.0	_	290	2,500	2,790	_	_		
A3-D1-BTM-092110-7.0	D-1	9/21/2010	7.0	_	<28	84	84	_	—	—	_
A3-D2-SW-092110-5.0	D-2	9/21/2010	5.0	_	1,600	4,200	5,800		-	_	
A3-D2-BTM-092110-7.5	D-2	9/21/2010	7.5	_	42	820	862		_	_	
A3-D3-BTM-092110-10.0	D-3	9/21/2010	10.0	_	27	310	337				
A3-D3-SW-102610-5.0	D-3	10/26/2010	5.0	_	2,900	410	3,310		_		
A3-D4-BTM-092110-9.0	D-4	9/21/2010	9.0		<26	<53	<79				
A3-D5-SW-092110-6.0	D-5	9/21/2010	6.0		120	1,200	1,320				
A3-E00-SW-110210-5.0	E-00	11/2/2010	5.0		<58	540	540		—		
A3-E0-SW-092910-5.0	E-0	9/29/2010	5.0	_	<150	1,700	1,700		_	—	
A3-E1-P-092210-5.0	E-1	9/22/2010	5.0	_	2,800	530	3,330	<0.066	< 0.33	0,066	0.31
A3-E1-BTM-092210-9.0	E-1	9/22/2010	9.0	_	32	<54	32		_		
A3-E2-BTM-092210-8.0	E-2	9/22/2010	8.0	_	39	91	130	—			
A3-E2-SW-102610-5.0	E-2	10/26/2010	5.0	_	610	2,300	2,910		-	_	
A3-E3-SW-092210-6.0	E-3	9/22/2010	6.0	_	67	230	297			_	
A3-E4-SW-092210-5.0	E-4	9/22/2010	5.0		180	720	900				
A3-E5-SW-092210-5.5	E-5	9/22/2010	5.5		200	590	790		_		
A3-F1-SW-092310-5.0	F-1	9/23/2010	5.0		980	1,300	2,280	_			
A3-F2-SW-092310-5.5	F-2	9/23/2010	5.5		<28	<56	<84		_		
A3-F2-BTM-092310-8.5	F-2	9/23/2010	8.5		<27	<54	<81	_		_	_
MTCA Method A Cleanup Le	wels ⁶			1007	2,000	2,000	NC	0.03	7	6	9
Calculated Method B Cleanup	NC	NC	NC	3,739	NC	NC	NC	NC			

NOTES:

-

Results in **bold** denote concentrations exceed Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil cleanup levels (see footnote 6).

Results in cells with a heavy-line border denote concentrations exceed calculated Method B Soil cleanup levels (see footnote 7).

< denotes analyte not detected at or above the reporting limit listed.

--- = denotes sample not analyzed

Depth in feet below ground surface (bgs).

² Analyzed by Northwest Method NWTPH-Gx.

3 Analyzed by Northwest Method NWTPH-Dx.

4 Sum of GRO, DRO, and ORO concentrations

⁵ Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260B.

⁶ MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2007.

The cleanup level for GRO is without the presence of benzene.

* Method B Soil Cleanup Level for Unrestricted Land Uses, as calculated using Il orkbook Tools for Calculating Soil and Ground II ater Cleanup Levels under the MTC-I, Revised December 2007.

AOC = area of concern

 $\label{eq:DRO} = total petroleum hydrocarbons (TPH) as diesel-range organics \\ GRO = TPH as gasoline-range organics \\ ORO = TPH as oil-range organics \\ NC= not calculated \\$

Table 4 Soil Analytical Results for Non-Carcinogenic Polycyclic Aromatic Hydrocarbons Woodworth Lakeview Facility Lakewood, Washington Farallon PN: 188-002

				Analytical Results (milligrams per kilogram) ²										
Sample Identification	Area of Concern	Sample Date	Sample Depth (feet) ¹	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene
A2-B1-P-100510-2.0	AOC 2	10/5/2010	2.0	<0.0071	0.018	0.043	0.016	0.025	0.10	0.21	0.024	0.020	0.023	0.012
A3-B2-P-100510-4.5	AOC 3	10/5/2010	4.5	0.88	9.7	7.6	0.20	0.57	1.6	3.1	0.27	0.13	0.28	< 0.041
MTCA Method B Cleanup L	evels ³			1,600	320	NR	NR	4,800	3,200	NR	24,000	3,200	2,400	NR

NOTES:

< denotes analyte not detected at or above the reporting limit listed.

¹ Depth in feet below ground surface.

² Analyzed by U.S. Environmental Protection Agency Method 8270D/SIM.

³ Washington State Department of Ecology Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Version 3.1 Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway,

https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx

AOC = area of concern

NR = research has not been conducted and no value exists in the Ecology database for this parameter

1 of 1

Table 5 Soil Analytical Results for Carcinogenic Polycyclic Aromatic Hydrocarbons Woodworth Lakeview Facility Lakewood, Washington Farallon PN: 188-002

				Analytical Results (milligrams per kilogram) ²							
Sample Identification	Area of Concern	Sample Date	Sample Depth (feet) ¹	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Total cPAHs TEC ^{3,4}
A2-B1-P-100510-2.0	AOC 2	10/5/2010	2.0	0.0090	0.048	< 0.0071	< 0.0071	0.0088	0.0095	< 0.0071	0.0124
A3-B2-P-100510-4.5	AOC 3	10/5/2010	4.5	< 0.041	0.13	<0.041	< 0.041	< 0.041	< 0.041	< 0.041	0.0321
MTCA Method A Cleanup	Level for Soil ⁵										0.1

NOTES:

< denotes analyte not detected at or above the reporting limit listed.

¹Depth in feet below ground surface.

cPAHs = carcinogenic polycyclic aromatic hydrocarbons TEC = toxic equivalent concentration

²Analyzed by U.S. Environmental Protection Agency Method 8270D/SIM.

³Total carcinogenic polycyclic aromatic hydrocarbons derived using the total toxicity equivalency method in Section 708(8) of Chapter 173-340 of the Washington Administrative Code.

⁴For concentrations reported at less than the laboratory reporting limit, half the reporting limit was used to calculate the TEC.

⁵Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses,

Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2007.

Table 6 Soil Analytical Results for Extractable Petroleum Hydrocarbons and Total Organic Carbon Woodworth Lakeview Facility Lakewood, Washington Farallon PN: 188-002

					Analytical Results (milligrams per kilogram)							(Percent Carbon)		
					Extractable Petroleum Hydrocarbons ²									
	Area of		Sample Depth		Aliphatics Aromatics T							Total Organic		
Sample Identification	Concern	Sample Date	(feet) ¹	C8-C10	C10-C12	C12-C16	C16-C21	C21-C34	C8-C10	C10-C12	C12-C16	C16-C21	C21-C34	Carbon ³
A2-B1-P-100510-2.0	AOC 2	10/5/2010	2.0	<5.0	7.0	470	950	560	<5.0	<5.0	50	490	400	
A3-B2-P-100510-4.5	AOC 3	10/5/2010	4,5	38	280	2,100	2,500	3,100	8.0	57	580	1400	67 0	
A3-C3-BTM-092210-8.0	AOC 3	9/22/2010	8.0											< 0.042

AOC = area of concern

NOTES:

< denotes analyte not detected at or above the reporting limit listed.

---= denotes sample not analyzed

¹ Depth in feet below ground surface.

² Analyzed by Northwest Method NWTPH-EPH.

³ Analyzed by U.S. Environmental Protection Agency Method 9060.

G: Projects\188002 Woodworth Lakeview Facility Remediation\Correspondence\MTCA Method B Ltr\MTCA Method B tbls Dec 2010\Tbl 6 EPH

ATTACHMENT A BORING LOG

RISK-BASED CLEANUP LEVEL CALCULATION FOR PETROLEUM-CONTAMINATED SOIL Woodworth Lakeview Facility Lakewood, Washington VCP Project No: SW1012

Farallon PN: 188-002

-		FARALLON consulting		Lo	g o	of E	3ori	ng:	MW-24			
		975 5th Avenue Northwest Issaquah, Washington 98027									Р	age 1 of 1
Clic Pro Loc Far	ent ojec cati rallo gge	: Woodworth Capital, Inc. :: Woodworth Lakeview Facility ion:Lakewood, Washington on PN: 188-002 ed By: J. Peterson	Date/Time Started:10/0Date/Time Completed:10/0Equipment:PowDrilling Company:ESNDrilling Foreman:NoeDrilling Method:Dire			5/10 (5/10 * or Pro NW	0830 1045 obe	Sar Dri Dej Tot	mpler Type: Ma ve Hammer (Ibs pth of Water ATI al Boring Depth al Well Depth (f	r (Ibs.): Auto ar ATD (ft bgs): Rose to 4' bg Depth (ft bgs): 7.5 pth (ft bgs): 7.5		
Depth (feet bgs.)	Sample Interval	Lithologic Descript	ion	uscs	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Bor Con E	ring/Well struction Details
		 0-3.5': Sandy gravel, fine gravel, fine sand, no odor removed) 3.5-6.5': Silty sand with gravel (45% sand, 20% silt, to medium sand, fine to coarse gravel, gray, moist the odor, asphalt debris. 6.5-7.5': Silty gravel (50% gravel, 30% silt, 20% san gravel, fine sand, gray to tan, odor and stain decreations gone by 7.5' bgs. 	(overburden 35% gravel), fine o wet, petroleum- d), fine to coarse asing with depth,	GP SM		<u>e</u>				S		Cap Concrete Bentonite Seal Sand Pack 0.75-Inch Diameter 0.010-Slot Screen
Mon	ume	nt Type: Flush Mount Filter Paol	Construction In	nforn	natio	n	Gr	ound S	Surface Elevatio	n (ft	:): NA	
Casi	ng D en S	iameter (inches): 3/4 inch lot Size (inches): 0.01 Surface S	eal: Concrete	Top of Casing Elevation (ft): NA θ Boring Abandonment: NA								
Scre	ened	l Interval (ft bgs): 5.5-7.5 Annular S	eal: Bentonite		Su	rveye	ed Loca	tion:	X: NA	Y:	NA	

;

ATTACHMENT B LABORATORY ANALYTICAL REPORTS

RISK-BASED CLEANUP LEVEL CALCULATION FOR PETROLEUM-CONTAMINATED SOIL Woodworth Lakeview Facility Lakewood, Washington VCP Project No: SW1012

Farallon PN: 188-002

Case Narrative

Samples were collected on November 4, 2010 and received by the laboratory on November 5, 2010. 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-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Prepared	Analvzed	Flags
Client ID:	A2-A2-SW-110410-4.0					
Laboratory ID:	11-054-02					
Diesel Range Organics	110	27	NWTPH-Dx	11-5-10	11-5-10	N
Lube Oil	600	53	NWTPH-Dx	11-5-10	11-5-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	107	50-150				

- 4 -

Client ID:	A2-A0-SW-110410-1.5					
Laboratory ID:	11-054-04					
Diesel Range Organics	150	27	NWTPH-Dx	11-5-10	11-5-10	N
Lube Oil	570	53	NWTPH-Dx	11-5-10	11-5-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	121	50-150				

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB1105S2					
ND	25	NWTPH-Dx	11-5-10	11-5-10	
ND	50	NWTPH-Dx	11-5-10	11-5-10	
Percent Recovery	Control Limits				
108	50-150				
	Result MB1105S2 ND ND Percent Recovery 108	Result PQL MB1105S2	ResultPQLMethodMB1105S2	ResultPQLMethodPreparedMB1105S2ND25NVVTPH-Dx11-5-10ND50NVVTPH-Dx11-5-10Percent RecoveryControl Limits50-150108	ResultPQLMethodPreparedDateMB1105S2ND25NWTPH-Dx11-5-1011-5-10ND50NWTPH-Dx11-5-1011-5-10Percent RecoveryControl Limits50-1505050-150

				Percent	t	Recovery		RPD	
Analyte	Res	sult	F	Recover	у	Limits	RPD	Limit	Flags
DUPLICATE									
Laboratory ID:	11-04	15-03							
	ORIG	DUP							
Diesel Range Organics	ND	ND					NA	NA	
Lube Oil Range Organics	ND	ND					NA	NA	
Surrogate:									
o-Terpheny/			8	38 93	3	50-150			

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.

4

Date Analyzed:

11-5-10

% MOISTURE

Client ID	Lab ID	% Moisture
A2-A2-SW-110410-4.0	11-054-02	6
A2-A0-SW-110410-1.5	11-054-04	6

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

ConSite		Chain o	of (Cu	151		dy											Pa	age ,	1	of	1		
Environmental Inc. 14648 NE 95th Street • Redmond, WA 9805	Turnar (in w	ound Request orking days)		L	.âbo	orat	tory		uml	per:								1	1 -	05	4			
roject Number; 188002 roject Name: Wood worth roject Manager: Brani: Swista	(C , h-g 2 Days Standa (TPH a	heck One) Day 2 Day 3 Days ard (7 Days) analysis 5 Days)	ontainers		TEX				/olatiles 8260B	8270D/SIM PAHs)	SIM (low-level)		le Pesticides 8081A	orus Pesticides 8270D/SIM	cid Herbicides 8151A	MTCA Metals (circle one)		grease) 1664						
ampled by: Son Peterson		(other)	ber of C	PH-HCIE	PH-GWB	PH-Gx	Co-Hd	iles 8260	genated	volatiles low-level	\$270D/	s 8082	nachlarin	Idsortidou	rinated A	RCRA /	Metals	(oil and			An Arms		oisture	
b ID Sample Identification	Sampled	Sampled Matrix	Mum	NWT	MARL	TWN	14	Volat	Halog	Semi (with	PAHS	PCB	Orga	Orga	Chlo	Total	TCLF	HEM					% M	_
1 A2-CI-BTM-110410-:	2.0 11-4-10	900 Sei	11				1										_						X	1
2 AZ-AZ-SW-110410-	+.0	930 Soil	1				X																r	
3 A2 - A1 - 5W - 110410 -	.5	1000 Soil	1																				-*	
A2-A0-SW-110410-1	.5 + I	1030 -Sain	/ 1	-			×																X	
			C.	k	14	e	6	R	2	X	AM		2											_
		·····											2	R	/	~	4	140	A	2				-
Signature	Com	pany		. 3	Diate			Time	3		Con	nmen	ts/Sp	ecial	Instru	uction	ns			1	-			-
Relinquished	$ \geq \epsilon$	rallon			11-	5-	10	D	30	4														
Received PAR	Kolson	OSe			11.	5.	10	8:	:04	11														
telinquished																								
eceived																								
elinquished		······································																						
leceived																								
leviewed/Date	Re	viewed/Date									Chro	matog	rams	with fi	inal re	eport								

Data Package: Level III . Level IV Electronic Data Deliverables (EDDs)

-



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

November 5, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1011-040

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on November 4, 2010.

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

Case Narrative

Samples were collected on November 3, 2010 and received by the laboratory on November 4, 2010. 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.

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

NWTPH-Dx

(with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

0 0 (11 /				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A2-B0-SW-110310-1.5					
Laboratory ID:	11-040-01					
Diesel Range Organics	120	27	NWTPH-Dx	11-4-10	11-4-10	Ν
Lube Oil	630	53	NWTPH-Dx	11-4-10	11-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	118	50-150				
Client ID:	A2-C1-SW-110310-1.5					
Laboratory ID:	11-040-02					
Diesel Range Organics	180	27	NWTPH-Dx	11-4-10	11-4-10	N
Lube Oil	820	53	NWTPH-Dx	11-4-10	11-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	106	50-150				
Client ID:	A2-B1-SW-110310-1.5					
Laboratory ID:	11-040-03		_			
Diesel Range Organics	ND	110	NWTPH-Dx	11-4-10	11-4-10	U1
Lube Oil	800	56	NWTPH-Dx	11-4-10	11-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	112	50-150				
Client ID:	A2-A2-BTM-110310-4.0					
Laboratory ID:	11-040-04					•
Diesel Range Organics	ND	48	NWTPH-Dx	11-4-10	11-4-10	U1
Lube Oil	480	53	NWTPH-Dx	11-4-10	11-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	115	50-150				
Client ID:	A2-A1-BTM-110310-2.5					
Laboratory ID:	11-040-05					
Diesel Range Organics	100	27	NWTPH-Dx	11-4-10	11-4-10	N
Lube Oil	760	54	NWTPH-Dx	11-4-10	11-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	116	50-150				
Client ID:	A2-B1-BTM-110310-2.0					
Laboratory ID:	11-040-06					
Diesel Range Organics	110	27	NWTPH-Dx	11-4-10	11-4-10	N
Lube Oil	400	53	NWTPH-Dx	11-4-10	11-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	115	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104S1					
Diesel Range Organics	ND	25	NWTPH-Dx	11-4-10	11-4-10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-4-10	11-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terpheny/	119	50-150				

			Perc	cent	Recovery		RPD	
Analyte	Res	sult	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	11-03	35-03						_
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND			_	NA	NA	
Surrogate:								
o-Terpheny/			111	107	50-150			

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.

DDD

ł

% MOISTURE

Date Analyzed: 11-4-10

Client ID	Lab ID	% Moisture
A2-B0-SW-110310-1.5	11-040-01	6
A2-C1-SW-110310-1.5	11-040-02	6
A2-B1-SW-110310-1.5	11-040-03	10
A2-A2-BTM-110310-4.0	11-040-04	6
A2-A1- BTM-110310-2.5	11-040-05	7
A2-B1- BTM-110310-2.0	11-040-06	6

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.

,



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

OnSite		Ch	ain o	f	Cu	S		dy						ji din a.					P	age _	۱	of	1		
Environmental Inc. 14648 NE 95th Street • Redmand, WA 98052 Phone: (425) 883-3881 • www.cnsite-env.com	Turi (ir	naround Req 1 working da	juest iys)		L	abo	ora	tory	N	ıml	oer:				1							1	- 1	04	0
Company: Froject Number: 164002 Project Name: Woodworth bakeview Project Manager: Brani Jurista	San 2 Da Star (TP	(Check Oné) ne Day ays ndard (7 Days H analysis 5 [3 Days	Containers	0	BTEX			08	Volatiles 8260B	s 8270D/SiM si PAHs)	/SiM (low-level)		ne Pesticides 8081A	horus Pesticides 8270D/SIM	Acid Herbicides 8151A	MTCA Metals (circle one)		grease) 1664						
Son Peterson	Date	(other)		Imber of	VTPH-HG	VTPH-Gx/	VTPH-Gx	VTPH-Dx	latiles 826	logenated	mivolatiles th low-leve	Hs 8270D	Bs 8082	ganochtor	Janophosp	lorinated	al RCRA	LP Metals	M (oi) and						Moisture
$\begin{array}{c} 1 \\ A2 - B0 - SW - 110310 - 1.5 \\ A2 - C1 - SW - 110310 - 1.5 \\ \hline A2 - B1 - SW - 110310 - 1.5 \\ \hline A2 - B1 - SW - 110310 - 1.5 \\ \hline A2 - A2 - BTM - 110310 - 4.0 \\ \hline 5 \\ A2 - A1 - BTM - 110310 - 2.5 \\ \hline 6 \\ A2 - B1 - BTM - 110310 - 2.0 \\ \hline \end{array}$		1100 1130 1200 1300 1300 1400						x x x x x x x x x		Ĩ	<u>,</u>		<u>.</u>	0	<u> </u>				T						
Signature Relinquished Received Relinquished Relinquished Relinquished Received		inipany Tara ((Ol	Ê			Date 11- 11/-	3-1	0	Time	35		Com	nent	s/Spe	ecial I	instru	etion	S							
Reviewed/Date		Reviewed/Da	te								0	Chroma	atogr	ams \	with fi	nal re	port []		*					

Data Package: Level III 🗍 Level IV 🗍 Electronic Data Deliverables (EDDs)



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

November 4, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1011-010

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on November 2, 2010.

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

1

Case Narrative

Samples were collected on November 2, 2010 and received by the laboratory on November 2, 2010. 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-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-C00-SW-110210-5.0					
Laboratory ID:	11-010-01					
Diesel Range Organics	ND	170	NWTPH-Dx	11-3-10	11-3-10	U1
Lube Oil	1500	280	NWTPH-Dx	11-3-10	11-3-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	118	50-150				

Client ID:	A3-E00-SW-110210-5.0					
Laboratory ID:	11-010-02					
Diesel Range Organics	ND	58	NWTPH-Dx	11-3-10	11-3-10	U1
Lube Oil	540	56	NWTPH-Dx	11-3-10	11-3-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	111	50-150				

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.

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB1103S1					
ND	25	NWTPH-Dx	11-3-10	11-3-10	
ND	50	NWTPH-Dx	11-3-10	11-3-10	
Percent Recovery	Control Limits				
121	50-150				
	Result MB1103S1 ND ND Percent Recovery 121	Result PQL MB1103S1 - ND 25 ND 50 Percent Recovery Control Limits 121 50-150	Result PQL Method MB1103S1 -	Date Result PQL Method Prepared MB1103S1	Date Date Result PQL Method Prepared Analyzed MB1103S1

			Pe	ercent	Recovery		RPD	
Analyte	Res	sult	Re	covery	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	10-24	18-02						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	U1
Lube Oil	257	245				5	NA	
Surrogate:								
o-Terphenyl			103	101	50-150			

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

% MOISTURE

Date Analyzed: 11-3-10

Client ID	Lab ID	% Moisture
A3-C00-SW-110210-5.0	11-010-01	9
A3-E00-SW-110210-5.0	11-010-02	10

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


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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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



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

November 1, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1010-254

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on October 28, 2010.

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

Case Narrative

Samples were collected on October 28, 2010 and received by the laboratory on October 28, 2010. 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-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-A2-SW-102810-5.5					
Laboratory ID:	10-254-01					
Diesel Fuel #2	3000	29	NWTPH-Dx	10-29-10	10-29-10	
Lube Oil	96	57	NWTPH-Dx	10-29-10	10-29-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	84	50-150				

Client ID:	A3-B4-BTM-102810-6.0					
Laboratory ID:	10-254-02					
Diesel Fuel #2	3100	28	NWTPH-Dx	10-29-10	10-29-10	
Lube Oil	130	55	NWTPH-Dx	10-2 <u>9-10</u>	10-29-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	110	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

Striket 11.9.1.9 (PP.1.)				Date	Dat	e	
Analyte	Result	PQL	Method	Prepared	Analy	zed	Flags
METHOD BLANK							
Laboratory ID:	MB1029S1						
Diesel Range Organics	ND	25	NWTPH-Dx	10-29-10	10-29	-10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-29-10	10-29	-10	
Surrogate:	Percent Recover	y Control Limits					
o-Terphenyl	102	50-150					
			Percent	Recovery		RPD	
Analyte	Result		Recovery	Limits	RPD	Limit	Flags
DUPLICATE							
Laboratory ID:	10-254-0)1					
	ORIG E)UP					
Diesel Fuel #2	2590 2	520			3	NA	
Lube Oil	84.2 8	4.6			0	NA	
Surrogate:				-			
o-Terphenyl			84 109	50-150			

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

10-29-10

Date Analyzed:

% MOISTURE

Client ID	Lab ID	% Moisture
A3-A2-SW-102810-5.5	10-254-01	13
A3-B4-BTM-102810-6.0	10-254-02	9

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.

t



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

ConSite		Cha	nin o	f (Cu	st	00	ly											P	age _	1	of _		<u> </u>	
Environmental Inc.	Turnaro (în wo	ound Requ orking day:	est s)		L	abo	rate	ory	Nu	mb	er:		diama and	0.	- 2	25	4								
Phone: (425) 883-3881 • www.onsite-env.com	(Ch	heck One)						Ĺ																	
Project Number:	🗌 Same D	Day	1 Day												WIS/C	-	(euo								
188 00 Z	2 Days		3 Days											081A	8270	8151/	(circle								
Woodworth Capital	Standar	rd (7 Days)	avel	rs.						8260	SIM	-level		Ides 8	sticides	loides	letals		1664			-			
Project Manager: Bani Jurista		naiyolo o De	293/	itaine		X				latiles	70D/S	M (low		Pestic	us Pee	i Herb	TCA N		esse)						
Sampled by:	L	(other)		of Cor	다 다	ax/BTI	X	×	3260B	ted Vo	lles 82 evel P	IIS/do	2	lorine	osphor	ad Acid	A/M	tals	and gr						e
Jon reterson	Date	Time		mber	TPH-	TPH-(TPH-C	TPH-I	atiles 8	ogena	h low-	ls 827	3s 808	anoch	anophi	orinate	I RCF	P Met	M (oil 8						Aoistu
Lab ID Sample Identification	Sampled S	Sampled	Matrix	Nul	MN	MN	M	MN	Vale	Halo	Sen (with	<u>¥</u>	<u>5</u>	Org	Oig	Chic	Tota	TCL	ш́т		_	_			4%
1 A3-A2-SW-102810-5.5	0-28-10	1130	Soul					X																	X
2-A3-B4-BTM-102810-6-0	0-28-10	1200	Soil					x																	1
					1					_												_	-+-		
					-																-+	-+	+		+
					-			-				_	_	-+						-		-+			+-
							-+			_			-	- +								_			_
										_	_														
													-												
																				_					
Signature	Comp	jany				Date			Time	1		Com	nente	s/Spe	cial I	nstru	ction	s			l				
Relinquished	(2	ralla	ı			10-0	28-1	0	14	23	3														
Received	Ĉ	SE_				rol_2	8/	0	Ц	163	20	-													
Relinquished																									
Received																									
Relinquished																									
Received																									
Reviewed/Date	Rev	viewed/Date	9									Chrom	atogr	ams w	rith fir	nal rep	ort [

Data Package: Level III 🗌 Level IV 🗌 Electronic Data Deliverables (EDDs)

1



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

October 28, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1010-214

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on October 26, 2010.

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

Case Narrative

Samples were collected on October 26, 2010 and received by the laboratory on October 26, 2010. 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.

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

NWTPH-Dx

(with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-DO-SW-102610-4.5					
Laboratory ID:	10-214-01					
Diesel Fuel #2	7600	140	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil	9800	270	NWTPH-Dx	10-27-10	10-27-10	
Surrogate:	Percent Recovery	Control Limits			,	
o-Terphenyl	125	50-150				
Client ID:	A3-DO-SW-102610-4.3					
Laboratory ID:	10-214-02					
Diesel Range Organics	350	140	NWTPH-Dx	10-27-10	10-27-10	N
Lube Oil	4400	280	NWTPH-Dx	10-27-10	10-27-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	122	50-150				
Client ID:	A3-DO-SW-102610-4.2					
Laboratory ID:	10-214-03					-
Diesel Range Organics	ND	830	NWTPH-Dx	10-27-10	10-27-10	U1
Lube Oil	8400	280	NWTPH-Dx	10-27-10	10-27-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	120	50-150				
Client ID:	A3-DO-SW-102610-4.4					
Laboratory ID:	10-214-04					
Diesel Range Organics	ND	160	NWTPH-Dx	10-27-10	10-27-10	U1
Lube Oil	2000	280	NWTPH-Dx	10-27-10	10-27-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	112	50-150				
Client ID:	A3-B1-SW-102610-4.0					
Laboratory ID:	10-214-06					
Diesel Fuel #2	4000	150	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil	2600	300	NWTPH-Dx	10-27-10	10-27-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	115	50-150				
Client ID:	A3-B4-SW-102610-3.5					
Laboratory ID:	10-214-07					
Diesel Fuel #2	2800	29	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil	480	58	NWTPH-Dx	10-27-10	10-27-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	144	50-150				

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

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-B4-SW-102610-4.0					
Laboratory ID:	10-214-08					
Diesel Fuel #2	1800	30	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil	270	<u>6</u> 1	NWTPH-Dx	10-27-10	10-27-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	122	50-150				
Client ID:	A3-C4-SW-102610-4.5					
Laboratory ID:	10-214-09					
Diesel Fuel #2	540	30	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil	130	60	NWTPH-Dx	10-27-10	10-27-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	108	50-150				
Client ID:	A3-D3-SW-102610-5.0					
Laboratory ID:	10-214-10					
Diesel Fuel #2	2900	30	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil	410	61	NWTPH-Dx	10-27-10	10-27-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	148	50-150				
Client ID:	A3-E2-SW-102610-5.0					
Laboratory ID:	10-214-11					
Diesel Fuel #2	610	140	NWTPH-Dx	10-27-10	10-27-10	N
Lube Oil	2300	270	NWTPH-Dx	10-27-10	10-27-10	
Surrogate:	Percent Recovery	Control Limits		•••		
o-Terphenyl	125	50-150				
Client ID:	A3-C1-SW-102610-4:5	1				
Laboratory ID:	10-214-12					
Diesel Fuel #2	1000	29	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil	320	59	NWTPH-Dx	10-27-10	10-27-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Ternhenvl	120	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1027S1					
Diesel Range Organics	ND	25	NWTPH-Dx	10-27-10	10-27-10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-27-10	10-27-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	116	50-150				

Analyte DUPLICATE Laboratory ID: Diesel Fuel #2 Lube Oil Surrogate: o-Terphenyl		Per	cent	Recovery		RPD		
Analyte	Res	sult	Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	10-21	4-07						
	ORIG	DUP						
Diesel Fuel #2	2440	2240				9	NA	
Lube Oil	418	370				12	NA	
Surrogate:								
o-Terphenyl			144	139	50-150			
							-	

Laboratory ID:	10-21	17-03		_				
	ORIG	DUP						
Diesel Range Organics	41.4	29.4				34	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			102	102	50-150			

5

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

% MOISTURE

Date Analyzed:

10-27-10

Client ID	Lab ID	% Moisture
A3-D0-SW-102610-4.5	10-214-01	8
A3-D0-SW-102610-4.3	10-214-02	9
A3-D0-SW-102610-4.2	10-214-03	10
A3-D0-SW-102610-4.4	10-214-04	10
A3-B1-SW-102610-3.0	10-214-06	16
A3-B4-SW-102610-4.0	10-214-07	13
A3-B4-SW-102610-3.5	10-214-08	18
A3-C4-SW-102610-4.0	10-214-09	16
A3-D3-SW-102610-4.5	10-214-10	17
A3-E2-SW-102610-5.0	10-214-11	9
A3-C1-SW-102610-4.5	10-214-12	15

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

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.

7

OnSite		Cha	ain o	f (Cu	st	00	iy			•							Pa	age	1	of	2	<u> </u>	
Environmental Inc. 14648 NE 95th Street - Redmond, WA 98052	Turi (in	naround Requ working day	uest /s)		L	abo	orat	ory	Nu	mb	er:									1	0	-2	1	4
Company:		(Check One)																						
Project Number:	Sarr	ne Day	1 Day											WIS/C		one)								
Project Name:	2 Da	ays [3 Days							ш			081A	3 8270I	8151/	(oircle								
Project Manager:	Star (TPI	ndard (7 Days) H analysis 5 D	ays)	er's						s 8260	/SIM w-level)		icides 6	esticides	bicides	Metals) 1664						
Brani Jurista				ontain		3TEX].		B	Volatile	8270D I PAHs) SIM (io		ne Pest	horus P	void Het	MTCA		grease						
San leterson		(other)		er of C	H-HOII	H-Gx/E	H-Gx	ХО-Н	as 826(anated	olatiles ow-leve 8270D/	8082	ochlori	ldsouldo	nated A	SCRA /	Metals	oil and						isture
Lab ID Sample Identification	Date Sampled	Time Sampled	Matrix	Numb	NWTP	NWTP	NWTP	NWTP	Volatil	Haloge	Semiv (with Ic PAHs	PCBs	Organ	Organe	Chlorit	Total F	TCLP	HEM						% Wo
1 A3-B0-5W-102610-4:5	10-2-6-10	830	Soil	ł				X					1.			.								<u> </u>
2 A3-D0-5W-102610-4.3		840		1				X						·										
3 A3-D0-SW-1026.10- 4.2		850		1				χ							_						_			
4 A3-DO-SW-102610-4,4		900	-	۱				X																N
5 A3-B1-SW-102610-3.0		930		1		ļ		hold																
6 A3-B1-5w-102610-4.0		940						Χ														.		Ŋ
7 A3-B4-SW-102610-3,5		950		۱				Χ																
8 A3-B4-5W-102610-4,0		1000		ſ				Х																
9 A3-CH-SW-102610-4,5		1010		١				X																
10 A3-D3-SW-102610 5-0	V	1330	V	(<u> </u>		X												·				U
Signature	C	ompany				Date	17		Time	• •		omme	nts/S	pecial	Instru	uctior	15							
Received	4	aa/li	202			10	00 1	0	15	$\frac{D}{c}$	2													
Relinquished		<u>OX</u>	E			14	26	0	15	5	2													
Received						-																		
Relinquished																								
Received				_		-																		
Reviewed/Date		Reviewed/Da	ite			I					c	noma	ogram	s with	final r	eport		-						

•

Data Package: Level III
Level IV
Electronic Data Deliverables (EDDs)

A OnSite		Cha	in o	f (Cu	st	10	ly											Pa	age _	2	of	0	$\overline{\mathcal{F}}$		
Environmental Inc.	Turn: (in	around Requ working day	est s)		L	abo	orat	ory	Nu	ımb	ber:										1	0	- {	21	4	
Phone: (425) 883-3881 • www.onsite-env.com	(Check One)							1																	
Project Number:	_ Same	e Day 🖞	P1 Day											_	MIS/CO	4	e one)									
Project Name:	2 Day	ys L	3 Days							BOB		el)		8081/	les 827	as 815.	ls (circl		4			ĺ				
Project Manager		l analysis 5 D:	ays)	iners						les 826	D/SIM s)	low-lev		sticides	Pesticio	erbicid	A Meta		ie) 166							
Sampled by:		(other)		f Conta	 	VBTEX			60B	d Volati	es 8270 vel PAH) WIS/C		orine Pe	sphorus	Acid H	V/ MTC	s	ld greas							
	Date	Time		mber of	TPH-H(TPH-G	TPH-G	(D-H-T)	atiles 82	ogenate	nivolatik h low-le	ls 8270	3s 8082	anochlo	anophos	orinated	I RCRA	P Meta	M (oil an						Aoisture	
Lab ID Sample Identification	Sampled	Sampled	Matrix	N N	ŇN	ŇN	MN	N N	No	Hal	Sen (wit	PAF	ğ	Org	Org	Chic	Tota	10	HE							
11 AS-22-3W-102610-3.0	10-26-10	1340	501			-		X								-						_			-	7
12 A3-21-5W-10,2610-4.5	10-2-6-10	1350	Joil	J	1			X																	(_
						-																_				_
				<u> </u>	-																	_				
					-																				\perp	
					-	ļ																				_
	· .						. 				<u> </u>											_				
																										_
			-																							
Signature	Co	mpany	11			Date	<u> </u>		Time	: م ش	~~~	Con	nmen	ts/Spe	cial	Instru	ction	s				<u>.</u>				\neg
Regived		Tara	[lon			10-	-H	10		$\frac{1}{2}$	5															
Relinquished	(DE				101	16	$\underline{0}$	K	25	2															
Received																										
Relinquished		<u> </u>	·																							
Received					•																					ŀ
Reviewed/Date		- Reviewed/Dat	e			<u> </u>		-				Chro	matog	rams	with f	inal re	port [•				-

-

t

Data Package: Level III 🗌 Level IV 🗍 Electronic Data Deliverables (EDDs)

.

.

_ _



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

October 15, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1010-029B

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on October 5, 2010.

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

Case Narrative

Samples were collected on October 5, 2010 and received by the laboratory on October 5, 2010. 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.

PAHs EPA 8270D/SIM Analysis

The 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.

PAHs by EPA 8270D/SIM (with silica gel clean-up)

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-B2-P-100510-4.5					
Laboratory ID:	10-029-02					
Naphthalene	0.88	0.041	EPA 8270/SIM	10-8-10	10-8-10	
2-Methylnaphthalene	9.7	0.081	EPA 8270/SIM	10-8-10	10-11-10	
1-Methylnaphthalene	7.6	0.081	EPA 8270/SIM	10-8-10	10-11-10	
Acenaphthylene	0.20	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Acenaphthene	0.57	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Fluorene	1.6	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Phenanthrene	3.1	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Anthracene	0.27	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Fluoranthene	0.13	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Pyrene	0.28	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[a]anthracene	ND	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Chrysene	0.13	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[b]fluoranthene	ND	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[k]fluoranthene	ND	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[a]pyrene	ND	0.041	EPA 8270/SIM	10-8-10	1.0-8-10	
Indeno(1,2,3-c,d)pyrene	ND	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Dibenz[a,h]anthracene	ND	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Benzo(g,h,i]perylene	СИ	0.041	EPA 8270/SIM	10-8-10	10-8-10	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	70	45 - 101				
Pyrene-d10	114	52 - 118				
Terphenvl-d14	92	41 - 106				

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.

-

PAHs by EPA 8270D/SIM (with silica gel clean-up)

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A2-B1-P-100510-2.0					
Laboratory ID:	10-029-05					
Naphthalene	ND	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
2-Methylnaphthalene	0.018	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
1-Methylnaphthalene	0.043	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Acenaphthylene	0.016	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Acenaphthene	0.025	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Fluorene	0.10	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Phenanthrene	0.21	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Anthracene	0.024	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Fluoranthene	0.020	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Pyrene	0.023	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Benzo[a]anthracene	0.0088	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Chrysene	0.048	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Benzo[b]fluoranthene	0.0095	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Benzo[k]fluoranthene	ND	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Benzo[a]pyrene	0.0090	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Indeno(1,2,3-c,d)pyrene	ND	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270/SIM	10-8-10	10-11-10	
Benzo[g,h,i]perylene	0.012	0.0071	EPA 8270/SIM	10-8- <u>1</u> 0	10-11-10	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	80	45 - 101				
Pyrene-d10	84	52 - 118				
Terphenyl-d14	105	41 - 106				

PAHs by EPA 8270D/SIM (with silica gel clean-up) METHOD BLANK QUALITY CONTROL

Matrix: Soil Units: mg/Kg

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	MB1008S1					
Naphthalene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
2-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
1-Methylnaphthalene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Acenaphthylene	ND	0.0067	EPA 8270/SIM	10-810	10-8-10	
Acenaphthene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Fluorene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Phenanthrene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Anthracene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Fluoranthene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Pyrene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[a]anthracene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Chrysene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[k]fluoranthene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[a]pyrene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270/SIM	10-8-10	10-8-10	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	93	45 - 101				
Pyrene-d10	97	52 - 118				
Terphenyl-d14	110	41 - 106				Q

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

PAHs by EPA 8270D/SIM (with silica gel clean-up) MS/MSD QUALITY CONTROL

Matrix: Soil Units: mg/Kg

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-03	38-07									
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.0661	0.0647	0.0833	0.0833	ND	79	78	31 - 115	2	19	
Acenaphthylene	0.0731	0.0731	0.0833	0.0833	ND	88	88	40 - 134	0	22	
Acenaphthene	0.0751	0.0755	0.0833	0.0833	ND	90	91	48 - 118	1	17	
Fluorene	0.0775	0.0779	0.0833	0.0833	ND	93	94	54 - 122	1	16	
Phenanthrene	0.0774	0.0761	0.0833	0.0833	ND	93	91	46 - 123	2	19	
Anthracene	0.0735	0.0738	0.0833	0.0833	ND	88	89	53 - 123	0	27	
Fluoranthene	0.0772	0.0760	0.0833	0.0833	ND	93	91	47 - 132	2	26	
Pyrene	0.0822	0.0800	0.0833	0.0833	ND	99	96	41 - 137	3	25	
Benzo[a]anthracene	0.0744	0.0747	0.0833	0.0833	ND	89	90	43 - 132	· 0	26	
Chrysene	0.0759	0.0765	0.0833	0.0833	ND	91	92	46 - 126	1	24	
Benzo[b]fluoranthene	0.0751	0.0779	0.0833	0.0833	ND	90	94	44 - 134	4	24	
Benzo[k]fluoranthene	0.0786	0.0759	0.0833	0.0833	ND	94	91	45 - 132	3	20	
Benzo[a]pyrene	0.0746	0.0742	0.0833	0.0833	ND	90	89	36 - 136	1	23	
Indeno(1,2,3-c,d)pyrene	0.0762	0.0759	0.0833	0.0833	ND	91	91	40 - 136	0	16	
Dibenz[a,h]anthracene	0.0782	0.0777	0.0833	0.0833	ND	94	93	40 - 142	1	13	
Benzo[g,h,i]perylene	0.0749	0.0744	0.0833	0.0833	ND	90	89	<u> 37 - 1</u> 37	1	18	
Surrogate:											
2-Fluorobiphenyl						85	85	45 - 101			
Pyrene-d10						95	96	52 - 118			
Terphenyl-d14						98	98	41 - 106			

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.

. . •1

> BTEX EPA 8021B

Matrix: Soil Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-B2-P-100510-4.5					
Laboratory ID:	10-029-02					
Benzene	ND	0.020	EPA 8021	10-12-10	10-12-10	
Toluene	ND	0.070	EPA 8021	10-12-10	10-12-10	
Ethyl Benzene	ND	0.070	EPA 8021	10-12-10	10-12-10	
m,p-Xylene	0.092	0.070	EPA 8021	10-12-10	10-12-10	
o-Xylene	ND	0.070	EPA 8021	10-12-10	10-12-10	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	55-127				
Client ID:	A2-B1-P-100510-2.0					
Laboratory ID:	10-029-05					
Benzene	ND	0.020	EPA 8021	10-12-10	10-12-10	
Toluene	ND	0.052	EPA 8021	10-12-10	10-12-10	
Ethyl Benzene	ND	0.052	EPA 8021	10-12-10	10-12-10	
m,p-Xylene	ND	0.052	EPA 8021	10-12-10	10-12-10	
p-Xylene	ND	0.052	EPA 8021	10-12-10	10-12-10	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	92	55-127				

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

BTEX EPA 8021B QUALITY CONTROL

Matrix: Soil Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012S1					
Benzene	ND	0.020	EPA 8021	10-12-10	10-12-10	
Toluene	ND	0.050	EPA 8021	10-12-10	10-12-10	
Ethyl Benzene	ND	0.050	EPA 8021	10-12-10	10-12-10	
m,p-Xylene	ND	0.050	EPA 8021	10-12-10	10-12-10	
o-Xylene	ND	0.050	EPA 8021	10-12-10	10-12-10	
Gasoline	ND	5.0	NWTPH-Gx	10-12-10	10-12-10	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	55-127				

					Source	Percent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	10-09	98-01								
	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	
Surrogate:										
Fluorobenzene						95 98	55-127			

SPIKE BLANKS

Laboratory ID:	SB10)12S1								
	SB	SBD	SB	SBD	SB	SBD				
Benzene	0.849	0.864	1.00	1.00	85	86	75-113	2	9	
Toluene	0.910	0.897	1.00	1.00	91	90	75-116	1	10	
Ethyl Benzene	0.945	0.947	1.00	1.00	95	95	82-117	0	10	
m,p-Xylene	0.984	0.963	1.00	1.00	98	96	81-122	2	10	
o-Xylene	0.967	0.964	1.00	1.00	97	96	83-118	0	10	
Surrogate:										
Fluorobenzene					89	89	55-127			

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.

1 :



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

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



environiciana) J

CERTIFICATE OF ANALYSIS

CLIENT:	OnSite Environment 14648 NE 95th Stre Redmond, WA 9805	tal Inc. et 52	CL	DATE: ALS JOB#: JENT PROJECT:	10/15 1010 Lab F 002	5/2010 047 Ref #10-029	/ Proj #188-	
CLIENT CONTACT: CLIENT SAMPLE ID ALS SAMPLE#:	Dave Baumeister A3-B2-P-100510-4.8 -01	5	D COL WDOE A	10/8/2 10/5/2 C601	10/8/2010 10/5/2010 C601			
		D/	ATA RESULTS		L.			
	METHOD	RESULTS	REPORTING LIMITS	DILUTION	UNITS	ANALYSIS A	ANALYSIS	
>C8-C10 Aliphatics	NWEPH	38	5.0	1	MG/KG	10/13/2010	EBS	
>C10-C12 Aliphatics	NWEPH	280	5.0	1	MG/KG	10/13/2010	EBS	
>C12-C16 Aliphatics	NWEPH	2100	5.0	1	MG/KG	10/13/2010	EBS	
>C16-C21 Aliphatics	NWEPH	2500	5.0	1	MG/KG	10/13/2010	EBS	
>C21-C34 Aliphatics	NWEPH	3100	5.0	1	MG/KG	10/13/2010	EBS	
>C8-C10 Aromatics	NWEPH	8.0	5.0	1	MG/KG	10/13/2010	EBS	
>C10-C12 Aromatics	NWEPH	57	5.0	1	MG/KG	10/13/2010	EBS	
>C12-C16 Aromatics	NWEPH	580	5.0	1	MG/KG	10/13/2010	EBS	
>C16-C21 Aromatics	NWEPH	1400	5.0	1	MG/KG	10/13/2010	EBS	
>C21-C34 Aromatics	NWEPH	670	5.0	1	MG/KG	10/13/2010	EBS	
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS	
C25	NWEPH	103				10/13/2010	FBS	
p-Terphenyl	NWEPH	87.0				10/13/2010	FBS	

Page 1

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626

ALS Laboratory Group A Campbell Brothers Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



		CERTIFI	CATE OF ANALY	515				
CLIENT:	OnSite Environmen 14648 NE 95th Stre Redmond, WA 9805	tal Inc. et 52	CL	DATE: ALS JOB#: LIENT PROJECT:	10/15/2010 1010047 Lab Ref #10-029 / Proj #18 002			
CLIENT CONTACT:	Dave Baumeister		D	ATE RECEIVED:	10/8/	2010		
CLIENT SAMPLE ID	A2-B1-P-100510-2.	0	COL	LECTION DATE:	10/5/	2010		
ALS SAMPLE#:	-02		WDOE A	CCREDITATION:	C601			
		DA	ATA RESULTS				-	
ANALYTE	МЕТНОД	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A DATE	ANALYSIS BY	
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS	
>C10-C12 Aliphatics	NWEPH	7.0	5.0	1	MG/KG	10/13/2010	EBS	
>C12-C16 Aliphatics	NWEPH	470	5.0	1	MG/KG	10/13/2010	EBS	
>C16-C21 Aliphatics	NWEPH	950	5.0	1	MG/KG	10/13/2010	EBS	
>C21-C34 Aliphatics	NWEPH	560	5.0	1	MG/KG	10/13/2010	EBS	
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS	
>C10-C12 Aromatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS	
>C12-C16 Aromatics	NWEPH	50	5.0	1	MG/KG	10/13/2010	EBS	
>C16-C21 Aromatics	NWEPH	490	5.0	1	MG/KG	10/13/2010	EBS	
>C21-C34 Aromatics	NWEPH	400	5.0	1	MG/KG	10/13/2010	EBS	
SURROGATE	METHOD	%REC				ANALYSIS A	ANALYSIS BY	
C25	NWEPH	81.0				10/13/2010	FBS	
p-Terphenyl	NWEPH	83.0				10/13/2010	EBS	

U - Analyte analyzed for but not detected at level above reporting limit.

Page 2

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626 ALS Laboratory Group A Campbell Brothers Limited Company

www.alsglobal.com

HIGHT SOLUTIONS HIGHT PARTNER

Environmental

-

- -



CERTIFICATE OF ANALYSIS

CLIENT:

OnSite Environmental Inc. 14648 NE 95th Street Redmond, WA 98052 DATE: ALS JOB#: CLIENT PROJECT: 10/15/2010 1010047 Lab Ref #10-029 / Proj #188-002 C601

CLIENT CONTACT: Dave Baumeister

WDOE ACCREDITATION: LABORATORY BLANK RESULTS

MBLK-10132010

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C10-C12 Aliphatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C10-C12 Aromatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C12-C16 Aromatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS
>C16-C21 Aromatics	NWEPH	U ·	5.0	1	MG/KG	10/13/2010	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	10/13/2010	EBS

Page 3

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 PHONE 425-356-2600 | FAX 425-356-2626 ALS Laboratory Group A Campbell Brothers Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ALS Environmental

NWEPH

NWEPH

NWEPH

NWEPH

NWEPH

86.0

89.0

87.0

84.0

82.0

0

2

2

	the second second	CER	TIFICAT	E OF ANALYSIS			
CLIENT:	NT: OnSite Environmental Inc. 14648 NE 95th Street Redmond, WA 98052			DATE: ALS JOB#: CLIENT PROJECT: WDOE ACCREDITATION:	10/15/2010 1010047 Lab Ref #10-029 / Proj #188- 002		
CEIENT CONTACT.	Dave Daumeister			WEBE ACCREDITATION.	0001		
	LAE	BORATOR	Y CONT	TROL SAMPLE RESULTS			
ALS Test Batch ID: R	71008	1.					
ALO TOST DUTOT ID. IN	11000				ANAL YSIS	ANALYSIS	
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	DATE	BY	
>C8-C10 Aliphatics - BS	NWEPH	82.0			10/13/2010	EBS	
>C8-C10 Aliphatics - BSD	NWEPH	86.0	4		10/13/2010	EBS	
>C10-C12 Aliphatics - BS	NWEPH	84.0			10/13/2010	EBS	
>C10-C12 Aliphatics - BSD	NWEPH	88.0	4		10/13/2010	EBS	
>C12-C16 Aliphatics - BS	NWEPH	87.0			10/13/2010	EBS	
>C12-C16 Aliphatics - BSD	NWEPH	90.0	3		10/13/2010	EBS	
>C16-C21 Aliphatics - BS	NWEPH	89.0	,		10/13/2010	EBS	
>C16-C21 Aliphatics - BSD	NWEPH	90.0	1		10/13/2010	EBS	
>C21-C34 Aliphatics - BS	NWEPH	100			10/13/2010	EBS	
>C21-C34 Aliphatics - BSD	NWEPH	104	3		10/13/2010	EBS	
>C8-C10 Aromatics - BS	NWEPH	77.0			10/13/2010	EBS	
>C8-C10 Aromatics - BSD	NWEPH	80.0	3		10/13/2010	EBS	
>C10-C12 Aromatics - BS	NWEPH	83.0			10/13/2010	EBS	
>C10-C12 Aromatics - BSD	NWEPH	85.0	2		10/13/2010	EBS	
>C12-C16 Aromatics - BS	NWEPH	86.0			10/13/2010	EBS	

Laboratory Director

APPROVED BY:

10/13/2010

10/13/2010

10/13/2010

10/13/2010

10/13/2010

EBS

EBS

EBS

EBS

EBS

Page 4

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626 ALS Laboratory Group A Campbell Brothers Limited Company

www.alsglobal.com

RIGHT SOLUTIONS BIGHT PARTNER

Centale conservation of 3

>C12-C16 Aromatics - BSD

>C16-C21 Aromatics - BS

>C16-C21 Aromatics - BSD

>C21-C34 Aromatics - BS

>C21-C34 Aromatics - BSD

-



1010046

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

Subcontract Laboratory:	ALS

Contact Person:

Address: Phone Number:

Date/Time:

Turnaround Request: 1 Day 2 Day

1 Day 2 Day 3 Day Standard

Other:

Laboratory Reference #: 10-029 Project Manager: David Baumeister email: dbaumeister@onsite-env.com

Page of (

Project Number: 188-002

Project Name:

of Date Time Sample Identification Sampled Sampled Requested Analysis: Lab ID Matrix Cont. 2 A3-B2-P-100510-4.5 10/5/10 EPH 5 1 5 AZ-BI-P-100510-2.0 -Company Date Time Comments/Special Instructions 100 Relinguished by TREOPY 1000 Received by: SPECDI 10/9/10 Relinguished by: ALS Ð Received by: Alason Relinguished by: Received by:

			_				•										
AA. OnSite	Ch	ain of (Cu	sto	dy									Page	l	_of _	19gaar
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052	Turnaround (in working	Request g days)	Lal	oorat	ory	Nur	nber	:			_			1	0 -	02	g
14648 NE 95th Street - Redmond, WA 98052 Phone: (420) 883-3881 + WWW.onsite-env.comCompany:Garallon ConsultingProject Number:188 002Project Name:Wood worth CapitalProject Manager:BraniBraniSuritalSampled by:Son P.Sampled by:Son P.1MW244-Recon-7.52A3-B2-P-100510-4.53A3-C4-P-100510-5.54A3-C3-P-100510-5.54A3-C3-P-100510-5.55A3-C4-P-100510-5.56A2-A1-P-100510-1-58Stignaturo8Stignaturo9A3-C4-P-100510-1-59A3-C4-P-100510-5.59A3-C4-P-100510-5.59A3-C4-P-100510-5.59A2-A1-P-100510-5.59A2-A1-P-100510-5.59A2-A1-P-100510-1-59A2-A1-P-100510-1-59A2-A1-P-100510-1-5	(In working (Check Same Day 2 Day Standard (7 wo (TPH analysis f Correct (other Date Time ampled Ssimpled Ssimpled (other Ssim	$\begin{array}{c c} \text{gdays} \\ \hline \\ \text{One} \\ \hline \\ & 1 \text{ Day} \\ \hline \\ & 3 \text{ Day} \\ \hline \\ & 3 \text{ Day} \\ \hline \\ & 3 \text{ Day} \\ \hline \\ & 5 \text{ working days} \\ \hline \\ & \hline \\ \\ & \hline \\ \\ & \hline \\ & \hline \\ & \hline \\ \\ & \hline \\ & \hline \\ \\ \\ & \hline \\ \\ \hline \\ \hline$			CO	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM			Herbicides by 8151A		HEM by 1664	HAT &	XALSA THE ETH			Woisture
Relinquished by	OSE	-		10/5/	10	14	15		ANA	LUY	sis						
Received by) t	tde	e d	10	11/0	105 A	₹Ģ		
Relinquished by								_				_	21	T			
Reviewed by/Date	Reviewed by	y/Date				<u> </u>		Ch	romat	ogram	with	final	repor	t 🗀			

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy



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

October 8, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-230B

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2010.

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

Case Narrative

Samples were collected on September 22, 2010 and received by the laboratory on September 22, 2010. 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.

TOTAL ORGANIC CARBON EPA 9060

Matrix: Soil Units: % Carbon

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-C3-BTM-092210-8.0					
Laboratory ID:	09-230-13					
Total Organic Carbon	ND	0.042	9060	10-6-10	10-7-10	

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

TOTAL ORGANIC CARBON EPA 9060 QUALITY CONTROL

Matrix: Soil Units: % Carbon

				Date		Date	
Analyte	Result	PQL I	Method	Prepared		Analyzed	Flags
METHOD BLANK							
Laboratory ID:	MB1007S1						
Total Organic Carbon	ND	0.042	9060	10-7-10		10-7-10	
Analyte	Re	sult	PQL		RPD	Limit	Flags
DUPLICATE							
Laboratory ID:	09-2	230-13					
	Sample	Duplicate					
Total Organic Carbon	ND	ND	0.042		NA	20	
			Source	e Perce	nt	Recovery	
Analyte	Result	Spike Leve	el Result	Recov	ery	Limits	Flags
SPIKE BLANK							
Laboratory ID:	SB1007S1						
Total Organic Carbon	46.7	42.1	ND	111		80-120	


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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

A OnSite		Ch	a İI	n of (Cu	st	0 0	ly											Pag	e			2
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052	19 19	Turnaround (in workin	i Requ g day	iest s)	La	bo	rato	ry l	Nur	nbe	er:			31_50537			Sound Street Street		09	}	23	0	
Company Company Consaltha		(Check	One)	SAME	AT I	TA	ţi,					Re	ရမရ	stee	l An	elly							
Project Number:	2 D	ay	[3 Day					3260B	MIS													
Project Name: Woodwarth	Sta	ndard (7 w	orking	days)					iles by 8	270D/	MIS		A	1A	s (8)								
Brani Durista			<u> </u>		CID	x/BTEX	A	7-82608	ed Volat	les by 8;	270D / S	082	by 8081	by 815	A Metals	als .	364						ω
Jon Veterson		(oth	ier)		H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-	D-H-d	문	les p	genat	volati	by 8	s by 8	cides	cides	RCR	Met	by 1(Į		oistur
Lab ID Sample Identification	Date ampled	Time Sampled	Matri	# of . ixCont	TWN	NWT		Volati	Halog	Semi	PAHs	PCB	Pesti	Herbi	Total	TCLF	HEM						% W
1 A3-E5-SW-092210-5-5 9	22/10	800	50.	11			X																X
2 A3-E5 - STM-092210-9.5		815		1			hold																
3 A3-E4 - SW -047210 - 5.0		830	1	1	_		Х												_				X
4 A3-E4-BTM-092200-9-0	_	845		(×	HOL	D₽₿													<u> </u>	#
5 A3-E3-SW-097710-6.0		900		1		-	X														_		
6 A3-E3+BTM-042210-8-0		915		1		-	X	HOL	D ₽ß													<u> </u>	+-
7 A3-E2-BIM-092210-8.0		105	_)			X						_							_			
8 A3-C5-B7745W-092210-5-0	ł	1100)			X																
7 13-61-2-092210-5.0		1215		4			X	Σ)				_										
10 A3-E1-BTM-092210-9.0		12:45	/			12500000	χ	S 187 3				PC-022-62		30.00							Alter an alter alter		
Relinquished by		Company	(100	<u></u>		Dere	ー イン	~(2)	000C	Γ [γ	2	Com		la		ISTRUC			D.				
Received by	$\overline{)}$	$\overline{0} \leq$	2	to FT		71	7 <u>0</u> ZZ	10	18	30	\overline{c}	A	d	a	7		101	•	17	X.			
Relinquished by				1200	<u>l</u>							K	ຄົ		(- [_0		1 8 (V 0	2			
Received by												V	רא א	TN4	147	2E	PER	HE	こつぐ このバ	rid Eisc	CTri USP	2772 ECI .	
Relinquished by									-			~		9	123	110 .	(SAI	^€ D:	14 77	ΑT)		
Received by												K	Add	od	Qu	lho	. P\$	<u>; (</u> ;	} dou	<u>) T</u> e	E)		
Reviewed by/Date		Reviewed I	by/Date	•								Chro	omate	ogra	ms v	with t	final	repor	t 🗆				

_

_ _ -

A OnSite	Chain of (Custody		Page of
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052	Turnaround Request (in working days)	Laboratory Number:		09-230
Company: farallan (on Sulting Project Number:	(Check Orie)			
Project Name: Woodworth Project Manager: Brani Jurista Sampled by: Jon Peterson Data	Standard (7 working days) (TPH analysis 5 working days)	WTPH-HCID WTPH-Gx/BTEX WTPH-Dx olatiles by 8260B alogenated Volatiles by 82 alogenated Volatiles by 82 alogenates by 8270D / SIM	CBs by 8082 esticides by 8081A erbicides by 8151A otal RCRA Metals (8) CLP Metals EM by 1664	A doisture
$\frac{11}{12} + \frac{3}{2} + $	$2(10 1330 S_{GC})$			
13 A7 - 63 - BTM - 047210 - 8.0 -	- 1445 Joil 1	X		
			?	
Relinquished by	farallon	9-22-10 (800	2 day - J)×
Received by Relinquished by	CeSysta	1 9122/10 (800)	D hold	1
Received by			Depolad	10/4/10. DB(3.00)
Received by				
Reviewed by/Date	Reviewed by/Date	· · · · · · · · · · · · · · · · · · ·	Chromatograms with final re	eport 🗌



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

October 7, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-001 Laboratory Reference No. 1010-052

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on October 6, 2010.

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

Case Narrative

Samples were collected on October 6, 2010 and received by the laboratory on October 6, 2010. 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.

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

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	MW-24-100610					
Laboratory ID:	10-052-01	,				
Diesel Range Organics	ND	0.26	NWTPH-Dx	10-6-10	10-6-10	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	10-6-10	10-6-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Water Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK	,					
Laboratory ID:	MB1006W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	10-6-10	10-6-10	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	10-6-10	10-6-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				

			Per	cent	Recovery		RPD	
Analyte	Res	sult	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	09-33	39-02						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			95	97	50-150			

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



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-napthalene) 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 delected 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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

OnSite	Ch	ain o)f (Cu	st	od	ly											Pa	age		_ of _	_(
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052	Turnaround Red (in working da	quest ays)		L	abo	orate	ory	Nu	imb	er:										1	0 -	- 0	52	2
Company:	(Check One)			, —					, <u> </u>														
FARALLON	Same Day	X 1 Day												SIM		ne)								
188-001	2 Days	3 Days											31A	270D/	151A	ircie o						`		
Project Name: NOODWOR, THE FACILITY	Standard (7 Day	s)							260B	5	(jave		es 808	cides 8	ides 8	tals (c		364				- 3.		
Project Manager:	(TPH analysis 5	Days)	iners						iles 8	ls/ai	low-l		sticid	Pesti	lerbic	A Me		se) 16						
Sampled by:	□		Conta		BTEX			B	Volat	827(PA	/SIM		ine Pe	horus	Acid F	/ MTC		grea						
Kenkot	(other)	er of (HCI H	H-Gx/	H-GX	Ă	s 826	nated	olatiles w-leve	3270D	8082	ochlori	phosp	ated /	CHA /	Metals	oil and						sture
Lab ID Sample Identification	Date Time Sampled Sampled	Matrix	Numb	NWTPI	NWTPI	NWTP	NWTP	Volatlie	Haloge	Semivo (with lo	PAHs 8	PCBs	Organc	Organo	Chlorin	Total R	TCLP1	HEM (% Moi
1 MW-24-100610	10/6/10 1140	W	2	-			Х																	
																					-		+	\top
			1								-													
				<u> </u>										-									-	
				-			_				4	\leq		-									+	+
· · · · · · · · · · · · · · · · · · ·						3	-	\leq	_		_					-	_	·						_
				+	T														_					
			-			-						\neg					\neg		\neg				+	
Signature	Company			1	Date			 Time			Com	ments	Spe	cial lu	nstruc	tions		1						
Relinquished 120 Q VA	5.4.5.4	II ()	. 1		4	c. (
Received			\sim		101	\mathbf{b}	14	13	$\frac{10}{210}$	<u>></u>	Ì	-Ľ	DA	4	f	UV	\sim)						
Relinquished	= 00	<u>ب</u>		_	101			12	200	م				Ċ										
Received			_																					
Relinquished	· · · · · · · · · · · · · · · · · · ·						$-\dagger$																	
Received				-			+																	
Reviewed/Date	Reviewed/Da	ate		I							Chron	natogr	ams w	vith fir	nai rep	ort []							

.



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

October 6, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1010-029

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on October 5, 2010.

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

Case Narrative

Samples were collected on October 5, 2010 and received by the laboratory on October 5, 2010. 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.

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

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-B2-P-100510-4.5					
Laboratory ID:	10-029-02					
Diesel Fuel #2	5800	150	NWTPH-Dx	10-5-10	10-5-10	
Lube Oil	4600	300	NWTPH-Dx	10-5-10	10-5-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl		50-150				F
Client ID:	A3-C3-P-100510-3.2					
Laboratory ID:	10-029-04					
Diesel Fuel #2	1000	130	NWTPH-Dx	10-5-10	10-5-10	
Lube Oil	1000	260	NWTPH-Dx	10-5-10	10-5-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	114	50-150				
Client ID:	A2-B1-P-100510-2.0					
Laboratory ID:	10-029-05					
Diesel Fuel #2	1600	130	NWTPH-Dx	10-5-10	10-5-10	
Lube Oil	1100	270	NWTPH-Dx	10-5-10	10-5-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	125	50-150				
Client ID:	A2-A1-P-100510-1.5					
Laboratory ID:	10-029-06					
Diesel Range Organics	ND	320	NWTPH-Dx	10-5-10	10-6-10	U1
Lube Oil	3900	260	NWTPH-Dx	10-5-10	10-6-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	98	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

					Date	Date	е	
Analyte	Result		PQL	Method	Prepared	Analy	zed	Flags
METHOD BLANK								
Laboratory ID:	MB1005S1							
Diesel Range Organics	ND		25	NWTPH-Dx	10-5-10	10-5-	10	
Lube Oil Range Organics	ND		50	NWTPH-Dx	10-5-10	10-5-	10	
Surrogate:	Percent Recover	rery	Control Limits	. –				
o-Terphenyl	98		50-150					
				Percent	Recovery		RPD	
Analyte	Resu	ilt		Recovery	Limits	RPD	Limit	Flags
DUPLICATE					-			
Laboratory ID:	10-020)-04						
	ORIG	DUP	I					
Diesel Range Organics	ND	ND				NA	· NA	
Lube Oil	180	157				14	NA	
Surrogate:								

o-Terphenyl

101 114 50-150

% MOISTURE

Date Analyzed: 10-5-10

Client ID	Lab ID	% Moisture
A3-B2-P-100510-4.5	10-029-02	18
A3-C3-P-100510-3.2	10-029-04	4
A2-B1-P-100510-2.0	10-029-05	7
A2-A1-P-100510-1.5	10-029-06	4

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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

MA. OnSite		Ch	ain	of (Cu	st	0 0	ly		-								Pag	e	(o	f	librat v
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052		Furnaround (in workir	l Reques 1g days)	t	La	bo	rato	ry I	Nur	nbe	r:							1	0	- 0	2 \$	3
Company: farallan Consulting Project Number: 188002 Project Name: Woodworth Capital Project Manager: Brani Surita Sampled by: Son P.	Sam 2 Da Star (TPH	(Check ne Day ay ndard (7 w H analysis (oth	orking da 5 workin	1 Day 3 Day nys) ng days)	PH-HCID	PH-Gx/BTEX	PH-DX	iles by 8260B	genated Volatiles by 8260B	volatiles by 8270D / SIM	s by 8270D / SIM		cides by 8081A	Icides by 8151A BCRA Metals (8)	o Metals	by 1664						oisture
Lab ID Sample Identification Sa	Date ampled	Time Sampled	Matrix	# of Cont	TWN	NWT	TWN	Volati	Halo	Semi	PAHs		Pesti	Total	TCLF	HEM				_		Ŵ %
1 MW24-Recon-7.5 log	05/10	1100	Water	2	ļ		hold					_		_						_		
2 A3-B2-P-100510-4.5		1(30	501	3			X					_									+	Х
-3 A3-C4-P-100510-5.5		1 (50	Soil	<u>3</u>			nod					_		_				_	_			∇
9 A3-23-1-100510-3.2		1.20	501	7			X					-+	_						_	_	$\left \right $	X
9 H2-DI-P-100510-2-0		()10	50(1				X					-				+	+					
$\int \frac{1}{4} d^{-1} d^{-1} = (00 > 10 - (-5))$		10-10	500)	<u> </u>		X	· .				-			_					_		-
				· · · · · · · · · · · · · · · · · · ·																		
					-											-			-			
Signatures Relinquished by Received by Relinquished by		Company Fara ODE	<u>a(lor</u> E	<u>م</u> ــــــ		10 - 1 10	5-(5]1	0	time l 14	<u>41</u> '''	5	H	IOL NA	D D V	insiri FOI SIS		FU	RTH	ier			
Received by												~										
Relinquished by																						
Received by												_										
Reviewed by/Date		Reviewed	by/Date								C	Chro	mato	gram	s with	final	repor	t 🗌			_	

.

1

-

. ____

- ----

. . . .

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy



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

October 5, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-199C

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2010.

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

Case Narrative

Samples were collected on September 20, 2010 and received by the laboratory on September 21, 2010. 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.

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

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-B0-SW-092010-4.0					
Laboratory ID:	09-199-05					
Diesel Range Organics	ND	27	NWTPH-Dx	10-4-10	10-5-10	
Lube Oil Range Organics	ND	54	NWTPH-Dx	10-4-10	10-5-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	113	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

}

				Date	Dat	e	
Analyte	Result	PQL	Method	Prepared	Analy	zed	Flags
METHOD BLANK							
Laboratory ID:	MB1004S1						
Diesel Range Organics	ND	25	NWTPH-Dx	10- 4 -10	10-4-	10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-4-10	10-4-	10	
Surrogate:	Percent Recove	ery Control Lim	its				
o-Terphenyl	110	50-150					
			Percent	Recovery		RPD	
Analyte	Resu	lt	Recovery	Limits	RPD	Limit	Flags
DUPLICATE							
Laboratory ID:	09-199-	-05					
	ORIG	DUP					
Diesel Range Organics	ND	ND			NA	NA	
Lube Oil Range Organics	ND	ND			NA	NA	
Surrogate:							

o-Terphenyl

113 117 50-150

% MOISTURE

Date Analyzed:

10-1-10

Client ID

Lab ID

% Moisture

7

A3-B0-SW-092010-4.0

09-199-05

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.

;



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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

						-										Š		
Ala. OnSite	CI	hain of (Cu	stc	dy	1									Page _	Ľ	of	
Environmental Inc.	Turnarour	nd Request	La	bora	orv	Nu	mbe	er:							0.9	1-1	9 (3
Phone: (425) 883-3881 • www.onsite-env.com	(Chec								Beau	iesie		nalv	sis					
Company Farallon Consulting	Same Dav																	
Project Number:	Day Day	🗌 3 Day				3260B	SIM											
Project Name: Woodivarth Cakeview	Standard (7 v	working days)				es by {	70D/	M	A	A	(8)							
Project Manager: Bran, Juri Sta	(TPH analysis	s 5 working days)		втех	8260B	Volati	s by 82	2 / Q0	y 8081	y 8151	Metals	5	4					
Sampled by: Jon Referson	(0	ther)	H-HO	H-GX	es by	enated	/olatile:	by 827	ides bi	cides b	RCRA	Metal	by 166					oisture
Lab ID Sample Identification	Date Time Sampled Sampled	# of <u>Matrix</u> Cont	NWTF	NWTF NWTF	Volati	Halog	Semiv	PAHs	Pestic	Herbi	Total	TCLP	HEM					% Wc
1 A3, B2-5W-092010-4.0	9-20-10 1431	o Suil 1			\mathcal{O}_{-}												(Ø
2 A3-B2-BTM-092010-6.5	1445	5) 1			$\hat{\mathcal{S}}$													Q
3 A3-B1-SW-092010-4-0	1500	7		C	2													0
4 A3-B1-BTM-092010-6.5	15#5			0)													0
5 A3-BO-SW-092010-4-0	1530	, 1		e	3													۲
6 A3-B0-BTM 092010-6-5	1545	1																
7 A3-A2-SW-092010-4-0	1600	1		Z	9							 						(\mathfrak{A})
8 A3-A2-5TM-092010-6-5	- 1615	2 1		Ø	<u> </u>							-			_		(Ø
		<u> </u>												,	_			
			and the literature	1 Mar. 14 19 19 19 19 19 19 19 19 19 19 19 19 19										Weiter and The State	a the state with			Survey delayers
Signature Relinguished by	Company	11-		ahi	Ira	all (a)	200	2	Comme	nts/Spi	cialil	nstruc	ctions					
Received by		<u>alloy</u>		9/2	Alas		b:21	r	_	Ħ	21	q						
Relinquished by				7	000				R	A.	200	Ja	3/z	che	$\cdot \mathcal{D}$	3/2	day	<i>A</i>
Received by									2	211		al	101	5	กุจ	<i>i</i> .	TH	TT X
Relinquished by										Tade	.0 	7/5 2) 1	01	10. 551	"(2 do	4 TA	Γ
Received by							_		0	otk		011	10.	74(2	2 day	TAT	ノ	
Reviewed by/Date ·	Reviewe	d by/Date		•					Chrom	atogr	ams	with	final	report				

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

,



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

October 5, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1010-018

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on October 1, 2010.

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

Case Narrative

Samples were collected on October 1, 2010 and received by the laboratory on October 1, 2010. 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-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-A0-SW-100110-2.8					
Laboratory ID:	10-018-04					
Diesel Fuel #2	310	140	NWTPH-Dx	10-4-10	10-4-10	
Lube Oil	660	280	NWTPH-Dx	10-4-10	10-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	134	50-150				
Client ID:	A3-A1-SW-100110-3.0					
Leberster (D)	10 019 05					

Laboratory ID:	10-018-05					
Diesel Fuel #2	830	140	NWTPH-Dx	10-4-10	10-4-10	
Lube Oil	2300	280	NWTPH-Dx	10-4-10	10-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	147	50-150				

Client ID:	A3-A00-SW-100110-2.5					
Laboratory ID:	10-018-06					
Diesel Fuel #2	140	28	NWTPH-Dx	10-4-10	10-5-10	
Lube Oil	1000	56	NWTPH-Dx	10-4-10	<u>10-5-10</u>	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	124	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Dat	е	
Analyte	Result	PQL	Method	Prepared	Analy	zed	Flags
METHOD BLANK							
Laboratory ID:	MB1004S1						
Diesel Range Organics	ND	25	NWTPH-Dx	10-4-10	10-4-	10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-4-10	10-4-	10	
Surrogate:	Percent Recover	y Control Limits					
o-Terphenyl	110	50-150					
			Percent	Recovery		RPD	
Analyte	Result		Recovery	Limits	RPD	Limit	Flags
DUPLICATE							
Laboratory ID:	09-199-0	5		_			
	ORIG D	UP					
Diesel Range Organics	ND I	ND			NA	NA	
Lube Oil Range Organics	ND I	ND			NA	NA	
Surrogate:							
o-Terphenyl			113 117	50-150			

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

% MOISTURE

Date Analyzed: 10-4-10

Client ID	Lab ID	% Moisture
A3-A0-SW-100110-2.8	10-018-04	10
A3-A1-SW-100110-3.0	10-018-05	10
A3-A00-SW-100110-2.5	10-018-06	11

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

A OnSite		Ch	ain	of (Cu	S	0	ly		~							47. .		Pa	ige	١	_of	<u> </u>
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com		Turnaround (in workin	l Reques Ig days)	st	La	bo	rato	ory	Nur	nbe	er:		S-70-2-55	11:54			1	0	- () 1	8		BC117131
Company: Faraclan Consulting	🗆 Sa	(Check me Day	One)	1 Day								Re	<u>ile</u>	SIEC		aly	38						
Project Name: Woodworth Project Manager: Brani Jurista	⊠ 2 ⊑ □ Sta (TF	Day andard (7 w PH analysis	orking da 5 workin	3 Day ays) ng days)	0	BTEX		260B	Volatiles by 8260	by 8270D / SIM	0D / SIM	5	8081A	/ 8151A	Metals (8)		+						
Sampled by: Jon Peterson		بامر لرک (oth	ier)	#.of	TPH-HCII	TPH-Gx/E	/TPH-Dx	atiles by 8	ogenated	nivolatiles	Hs by 827(Bs by 808	sticides by	rbicides by	al RCRA N	LP Metals	M by 1664						Moisture
b ID Sample Identification	Sampled	Sampled CLC	Matrix	Cont	NN	N	Nol	\$	Ha	Sel	PA	6	ă.	He	Lot	01	<u> 뿐</u>				-		%
7 A3-A0-SW -100110- 30		900	5	1		+	hole	\$			<u>.</u>												+
2 A3-A0-BTM-100110-40		915	5	1			hold	1	-													-	+
+ A3-A0-JW-100110-2.8	•	930	5	1			þd.	*															X
5- A3-A1-SW-100110-3-0		945	5	1		1	2 Ja	Ŷ	1						-								X
e A3-A00-SW-100110-2.5		1000	5	() da	X	-														X
							<u> </u>																-
			· · · · · · · · · · · · · · · · · · ·															_					
			وشيروني فالمراجع	and the state of the			e antisisti	1.12 (June 1)		t (Aleres)				1							anti dana		
Relinquished by		fara	16~	\ \		10E10	1/10		13	00		CON	nenis	Spe		8000	NOUS	8					
Received by	Ze)	Q<	2 21-	· Eu	[: e]	10	leli	0	Ka	A	\supset												
Relinquished by						-																	
Relinquished by						<u> -</u>	-					-											
Received by																							
Reviewed by/Date		Reviewed	by/Date			_ <u> </u>						Chro	omat	ogra	ums v	with	final	repo	ort 🗀			-	

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy



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

October 5, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-318B

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 29, 2010.

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

,

Case Narrative

Samples were collected on September 29, 2010 and received by the laboratory on September 29, 2010. 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.

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

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-D0-BTM-092910-5.5					
Laboratory ID:	09-318-04	_				
Diesel Range Organics	170	140	NWTPH-Dx	10-4-10	10-4-10	N
Lube Oil	2200	270	NWTPH-Dx	10-4-10	10-4-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	140	50-150				
Client ID:	A3-D00-SW-092910-5.0					

09-318-06					
140	27	NWTPH-Dx	10-4-10	10-4-10	N
1100	55	NWTPH-Dx	10-4-10	10-4-10	
Percent Recovery	Control Limits				
136	50-150				
	09-318-06 140 1100 Percent Recovery 136	09-318-06 140 27 1100 55 Percent Recovery Control Limits 136 50-150	09-318-06 140 27 NWTPH-Dx 1100 55 NWTPH-Dx Percent Recovery Control Limits 136 50-150	09-318-06 140 27 NWTPH-Dx 10-4-10 1100 55 NWTPH-Dx 10-4-10 Percent Recovery Control Limits 136 50-150	09-318-06 140 27 NWTPH-Dx 10-4-10 10-4-10 1100 55 NWTPH-Dx 10-4-10 10-4-10 Percent Recovery Control Limits 50-150 V

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.

- 4

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

						Date	Date	e	
Analyte	Result		PQL	Method		Prepared	Analy	zed	Flags
METHOD BLANK									
Laboratory ID:	MB1004S1	_			_				
Diesel Range Organics	ND		25	NWTPH-D)x	10-4-10	10-4-	10	
Lube Oil Range Organics	ND		50	NWTPH-D	Эx	10-4-10	10-4-	10	
Surrogate:	Percent Recov	ery	Control Limits						
o-Terphenyl	110		50-150						
				Per	cent	Recovery		RPD	
Analyte	Resu	ılt		Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE									
Laboratory ID:	10-017	7-01							
	ORIG	DUF)						
Diesel Range Organics	ND	ND					NA	NA	
Lube Oil Range Organics	ND	ND					NA	NA	
Surrogate:									
o-Terphenyl				104	100	50-150			

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

% MOISTURE

Date Analyzed: 10-1-10

Client ID	Lab ID	% Moisture
A3-D0-BTM-092910-5.5	09-318-04	8
A3-D00-SW-092910-5.0	09-318-06	9

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881
MA. OnSite		Ct	lain	of (Cu	SI	100	ly											Pa	ge	1 of	1	
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052		Turnaroun (in worki	d Reques ng days)	t	La	abo	rato	ry I	Nur	nbe	er:					0	9 -	- 3	1 8	3			
Phone: (425) 883-3881 • www.onsite-env.com		(Checl	(One)	C. C								Re	que	stee	l An	allys	sis .				c.		
tarailon	_ 🗌 Sai	me Day	×	1 Day																			
188002	20	Day		3 Day					3260E	MIS													
Project Name:	Sta	undard (7 w	orking da	ays)					s by 8	, do'	z				(8)								
Project Manager:	(TF	PH analysis	5 workin	ng day <u>s</u>)		XEX		60B	olatile	oy 827	D/SI		3081A	8151/	etals								ĺ
Sampled by:		(ot	ner)		HCID	-Gx/B	A	by 82	ated V	atiles I	8270	8082	s by 8	es by	RA M	etals	1664					arre	
	Date	Time		# of	VTPH	VTPH.	H L	latiles	logen	mivola	Hs by	Bs by	sticide	arbicid	tal RC	SLP M	EM by					Moist	
Lab ID. Sample Identification	Sampled 9/20/00	<u>Sempled</u>	Manna √ ·	<u>Contra</u>	N	<u>S</u>	1. da	\$	Ha	Х	Vd.		<u>e</u>	<u> </u>	P	<u>P</u>	Ξ			-+		8	
	103/10	800	1160						_		_		- +	_					+		_		-
2 M3 CO BIM B44410-600		8(5			-		NUID						_ +				-		-				_
3 45 100 500- 04 54 100 7.5		830				-	dida														_	X	
Le 13-00-8 MA- 092910-5.5		845		. (9	
5 43-E0-SW-092910-5.0	_	900		1			2-day															<u> </u>	<u>'</u>
Ce A3- D00-5W-042-910-5-0		915		(æ															e	2
7 43-200-50-092910-5.0	2	930		5			hold																
																							7
											_												
Signature		Company				Date		Net el	Time	s (enc)		Comi	ments/	Spec	ial In	struc	tions				a i zašeni	sec.	
Relinquished by	ω	Gal	lon			9-	24.	10	1	125	Ô	(B A	dale	ed 1	10/1	10	DB,	3 (2	dan	TAT	り	
Received by		3f.e-	edy			91	24		\$ ئ	5	0												
Relinquished by		Spree	Ay_			ę	29	10	2	10													
Received by	$) \square$	95	> it c	it	ĩ	7.	19	\mathbb{Z}	11	ℓl_{ℓ}	2												
Relinquished by																							
Received by													-	_							_		
Reviewed by/Date		Reviewed	by/Date									Chro	omato	gra	ms w	vith f	inal	repor	t 🗆				

-

l

tationer da di

· · · · · J

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

ø



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

October 1, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-318

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 29, 2010.

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

Case Narrative

Samples were collected on September 29, 2010 and received by the laboratory on September 29, 2010. 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-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-CO-SW-092910-5.0					
Laboratory ID:	09-318-01					
Diesel Range Organics	ND	140	NWTPH-Dx	9-29-10	9-29-10	
Lube Oil	1100	280	NWTPH-Dx	9-29-10	9-29-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terpheny/	114	50-150				

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.

.

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929S2					
Diesel Range Organics	ND	25	NWTPH-Dx	9-29-10	9-29-10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-29-10	9-29-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	109	50-150				

			Perc	ent	Recovery		RPD	
Analyte	Res	sult	Reco	very	Limits	RPD	Limit	Flags
DUPLICATE	_							
Laboratory ID:	09-27	73-09						
	ORIG	DUP						
Diesel Range Organics	31.6	26.5				18	NA	
Lube Oil	55.0	ND				NA	NA	
Surrogate:								
o-Terphenyl			106	98	50-150			

NWTPH-Dx

(with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-DO-SW-092910-4.5					
Laboratory ID:	09-318-03					
Diesel Range Organics	ND	390	NWTPH-Dx	9-30-10	9-30-10	U1
Lube Oil	3800	270	NWTPH-Dx	9-30-10	9-30-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	108	50-150				

Client ID:	A3-EO-SW-092910-5.0					
Laboratory ID:	09-318-05					
Diesel Range Organics	ND	150	NWTPH-Dx	9-30-10	9-30-10	U1
Lube Oil	1700	270	NWTPH-Dx	9-30-10	9-30-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	124	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0930S1	-				
Diesel Range Organics	ND	25	NWTPH-Dx	9-30-10	9-30-10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-30-10	<u>9-30-</u> 10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	100	50-150				
			Percent	Recovery	RPF)

			Per	cent	Recovery		RPD	
Analyte	Res	sult	Reco	overy	Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	09-30)9-01						
	ORIG	DUP						
Diesel Range Organics	ND	ND		_		NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			105	112	50-150			

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. 6

% MOISTURE

Date Analyzed: 9-29-10

Client ID	Lab ID	% Moisture
A3-CO-SW-092910-5.0	09-318-01	10
A3-D0-SW-092910-4.5	09-318-03	9
A3-E0-SW-092910-5.0	09-318-05	7

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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



Chain of Custody

MA . OnSite		C	nain	Of	Gu	ISI	loc	ly											Pa	age _	1	of	1
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052 Phone: (405), B83-9881, www.onsite.env.com		Turnaroun (in worki	d Reques ng days)	st	La	abo	rato	ry	Nu	mbe	er:			Kinkim al a		0	9	- 3	1	8		S. L. S. LIPCTS	*
Company:	-	(Chec	k One)									- FR	QUI	este	đΑ	nally	sis.						
Project Number:	_ 🗆 Sa	me Day	Ř	1 Day					m														
188002	220	Day		3 Day					8260	SIM													
Project Name: Voodworth	Sta	andard (7 w	orking da	ays)					se by	/ Q0/	W			T	(8)								
Project Manager: Branis Ticks	(TF	PH analysis	5 worki	ng days)		EX		60B	olatile	y 827	D/SI		3081	8151/	etals								
Sampled by:		(oti	her)		-HCID	-Gx/B	(XA)	s by 82	nated V	atiles t	/ 8270	y 8082	es by 6	les by	CRA M	letals	1664						ture
Lab ID Samala Identification	Date	Time		# of	WTPH	IWTPH	HATW	olatiles	laloger	emivol	AHs by	CBs b	esticid	lerbicio	otal RC	CLP N	HEM by						% Mois
1 A3 CO-SW-092910 5-0	129/10	800	Soil			Z	i-day	>	<u> </u>	0	<u>a</u>		<u> </u>	-	E		1						X
2 A3-CO-BIM- 092910-6-0	1	\$15		ſ			hold																
3 A3-D0-5W-042910-4.5		830		(2-do)	,															X
4 A3-D0-BTM-092910-5.5	1	845		1			hold																
5 A3-E0-SW-092910-5.0		900		1			2-day	,															X
Ce A3- D00-5W-092910-5.0		915		1			hoid																
7 A3-200-5W-1092910-5.0.	2	930	1	(hold																
														_									
																					·		
Polingwiched by		Company	1	a sug in t	1	Date			Time	1 1 1		Com	iment	s/Spe	cial, li	nstruc	ctions					i thais	
Received by	2	alal	lon		-	7-	24-	10		125	0												
Relinquished by		59.24	A	-	-	91	24	le a	1X (7)	(1/)													
Received by	10	Spreed	Ny.	-	-	7	1291	10	11	41	2												
Relinquished by		200		1	L	1.2	- /(L	C CI				•									
Received by																							
Reviewed by/Date		Reviewed	by/Date									Chr	oma	togra	ms	with	final	repo	rt 🗌				

TION LEGEND: White - OnSite Copy Yellow - Client Copy DISTRIBU



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

September 30, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-246

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2010.

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

Case Narrative

Samples were collected on September 23, 2010 and received by the laboratory on September 23, 2010. 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-Dx

(with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-F1-SW-092310-5.0					
Laboratory ID:	09-246-01					
Diesel Fuel #2	980	140	NWTPH-Dx	9-28-10	9-28-10	
Lube Oil	1300	270	NWTPH-Dx	9-28-10	9-28-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	123	50-150				
Client ID:	A3-F2-SW-092310-5.5					
Laboratory ID:	09-246-03					
Diesel Range Organics	ND	28	NWTPH-Dx	9-28-10	9-28-10	
Lube Oil Range Organics	ND	56	NWTPH-Dx	9-28-10	9-28-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	100	50-150				
Client ID:	A3-F2-BTM-092310-8.5					
Laboratory ID:	09-246-04					

Laboratory in.	00 10 01					
Diesel Range Organics	ND	27	NWTPH-Dx	9-28-10	9-28-10	
Lube Oil Range Organics	ND	54	NWTPH-Dx	9-28-10	9-28-10	
Surrogate:	Percent Recovery	Control Limits				

o-Terphenyl 104 50-150

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928S2					
Diesel Range Organics	ND	25	NWTPH-Dx	9-28-10	9-28-10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-28-10	9-28-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terpheny/	102	50-150				
			Percent	Recovery	RF	סי
Analuto	Pocult		Recovery	Limite	RPD Lir	nit Flags

Analyte	Res	suit	песс	overy	Limits	nPU	LIIIII	riays
DUPLICATE								
Laboratory ID:	09-24	46-04						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terpheny/			104	103	50-150			

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

% MOISTURE

Date Analyzed:	9-28-10

Client ID	Lab ID	% Moisture
A3-F1-SW-092310-5.0	09-246-01	8
A3-F2-SW-092310-5.5	09-246-03	11
A3-F2-BTM-092310-8.5	09-246-04	7

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

A OnSite		CI	hain	of (Cu	S	tol	ly											Pa	يe	/	of	1	
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-8881 • www.onsite-env.com		Turnaroun (in worki	id Reques ing days)	st 	La	abo	rato	ory	Nu	mbe	er:						0	9 -	2	46				
Company: For ∞ (lon Conscilting Project Number: 188002 Project Name: Woodworth Project Manager: Brani Jarista Sampled by: Son Peterson Lah 10 Sample Identification 1 A3-FF-SW ~ 092310 - 5.0 2 A3-FF-BTM-092310 - 9.0 3 A3-F2-SW ~ 092310 - 5.5 4 A3-F2-BTM-092310 - 8.5	□ Sar 2 D 2 D 2 D 3 Sta (TP 0 Date Sampled 9-2,3-/0	(Cheo me Day ndard (7 v H analysis (of Time Samulati 800 830 900 915	ther) $S_{0i}(1)$	1 Day 3 Day ays) ng days) # of conts 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	NWTPH-HCID	NWTPH-Gx/BTEX	CT-HALLON W BB	Velatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664						A Moisture	
Signature Relinquished by Received by	en (ecompany Fara	llon > Hy	- Et		0at 9- 70	-23	-10	15 16	ìot	> · ·	Con		siste (o) Ad	da	nstruk sl	ctions B 9/2	281	/,0			21	lay AT	
Reviewed by/Date		Reviewed	d by/Date									Ch	roma	togra	ams	with	final	repo	rt 🗆					



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

September 29, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-199B

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2010.

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

Case Narrative

Samples were collected on September 20, 2010 and received by the laboratory on September 21, 2010. 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-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

0 0 (1)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-B1-SW-092010-4.0					
Laboratory ID:	09-199-03					
Diesel Fuel #2	550	140	NWTPH-Dx	9-28-10	9-28-10	
Lube Oil	2100	280	NWTPH-Dx	9-28-10	9-28-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	108	50-150				

Client ID:	A3-B1-BTM-092010-6.5					
Laboratory ID:	09-199-04					
Diesel Range Organics	ND	28	NWTPH-Dx	9-28-10	9-28-10	
Lube Oil	75	55	NWTPH-Dx	9-28-10	9-28-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	108	50-150				

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928S2			-		
Diesel Range Organics	ND	25	NWTPH-Dx	9-28-10	9-28-10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-28-10	9-28-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	102	50-150				•

			Perc	ent	Recovery		RPD	
Analyte	Res	Reco	very	Limits	RPD	Limit	Flags	
DUPLICATE								
Laboratory ID:	09-29	95-02						
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			103	97	50-150			

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

% MOISTURE

Date Analyzed: 9-28-10

Client ID	Lab ID	% Moisture
A3-B1-SW-092010-4.0	09-199-03	11
A3-B1-BTM-092010-6.5	09-199-04	9

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

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.

6

MA. OnSite	Chain of (Custody		Page of
Environmental Inc. 14648 NE 95th Street Redmond, WA 98052	Turnaround Request (in working days)	Laboratory Number:		09-199
Company Garallon Cansulting Project Number: 188002 Project Name: Woodivarth Cakeview Project Manager: Bran: Jurista Sampled by: Jon Referson LabelD: 1 A3. B2-SW-092010-6.5 3 A3-B1-BTM-092010-6.5 5 A3-B0-BTM-092010-6.5 5 A3-B0-BTM-092010-6.5 7 A3-A2-SW-092010-6.5 7 A3-A2-SW-092010-6.5 7 A3-A2-SW-092010-6.5	$(Check One)$ $\bigcirc Same Day \bigcirc 1 Day$ $\bigcirc Day \bigcirc 3 Day$ $\bigcirc Standard (7 working days)$ $(TPH analysis 5 working days)$ $\bigcirc (Other)$ Date Time # of ampled Watrix Confisements 20-to 14-30 Soil 1 $144-5 1$ $144-5 1$ $1554-5 1$ $1530 1$ $1530 1$ $154-5 1$ $1660 1$ $100 1$	Image: Second	Silovilaria PCBs by 8082 PCBs by 8082 Pesticides by 8081A Pesticides by 8151A Perblcides by 8151A Proteiner by 8151A Perblcides by 81554	Molecular Molecular Molecular Molecular
Stenature Relinquished by Received by Received by Received by Received by Received by Received by	forallon	9/21/10 0620 9/21/10 6:25	Added 9/21/10 Ogdded 9/21/10	0. DB (Zday TAT · PB (Zday TAT)
Reviewed by/Date	Reviewed by/Date	· · ·	Chromatograms with final repo	rt 🗆



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

September 27, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-230

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2010.

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

Case Narrative

Samples were collected on September 22, 2010 and received by the laboratory on September 22, 2010. 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.

Volatiles EPA 8260B Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Some MTCA Method A cleanup levels are non-achievable due to the necessary dilution of the sample.

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

NWTPH-Dx

(with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-E5-SW-092210-5.5					
Laboratory ID:	09-230-01					
Diesel Fuel #2	200	140	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	590	270	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	142	50-150				
Client ID:	A3-E4-SW-092210-5.0					
Laboratory ID:	09-230-03				_	
Diesel Fuel #2	180	140	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	720	280	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	144	50-150				
Client ID:	A3-E3-SW-092210-6.0					
Laboratory ID:	09-230-05		_			
Diesel Fuel #2	67	28	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	230	56	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	119	50-150				
Client ID:	A3-E2-BTM-092210-8.0					
Laboratory ID:	09-230-07					
Diesel Fuel #2	39	28	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	91	55	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	120	50-150				
Client ID:	A3-C5-SW-092210-5.0					
Laboratory ID:	09-230-08					
Diesel Fuel #2	270	28	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	780	57	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	122	50-150				
Client ID:	A3-E1-P-092210-5.0					
Laboratory ID:	09-230-09					
Diesel Fuel #2	2800	28	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	530	56	NWTPH-Dx	9-24-10	9-24-10	N1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl		50-150				F

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

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-E1-BTM-092210-9.0					
Laboratory ID:	09-230-10					
Diesel Fuel #2	32	27	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil Range Organics	ND	54	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	117	50-150				
Client ID:	A3-B3-SW-092210-5.0					
Laboratory ID:	09-230-11					
Diesel Fuel #2	290	130	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	1200	270	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	143	50-150				
Client ID:	A3-B3-BTM-092210-8.0					
Laboratory ID:	09-230-12					
Diesel Fuel #2	31	28	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil	100	55	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	117	50-150				
Client ID:	A3-C3-BTM-092210-8.0					
Laboratory ID:	09-230-13					
Diesel Range Organics	ND	28	NWTPH-Dx	9-24-10	9-24-10	
Lube Oil Range Organics	ND	55	NWTPH-Dx	9-24-10	9-24-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	114	50-150				

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.

4

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

_			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
MB0924S2					
ND	25	NWTPH-Dx	9-24-10	9-24-10	
ND	50	NWTPH-Dx	9-24-10	9-24-10	
Percent Recovery	Control Limits				
122	50-150				
	Result MB0924S2 ND ND Percent Recovery 122	ResultPQLMB0924S2ND25ND50Percent Recovery12250-150	ResultPQLMethodMB0924S2	ResultPQLMethodPreparedMB0924S2ND25NWTPH-Dx9-24-10ND50NWTPH-Dx9-24-10Percent RecoveryControl Limits9-24-1012250-150Solution	ResultPQLMethodPreparedDateMB0924S2ND25NWTPH-Dx9-24-109-24-10ND50NWTPH-Dx9-24-109-24-10Percent RecoveryControl Limits250-15050-15050-150

			Perc	ent	Recovery		RPD	
Analyte	Result		 Recovery		Limits	RPD	Limit	Flags
DUPLICATE								
Laboratory ID:	09-23	30-13				_		
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			114	120	50-150			

VOLATILES by EPA 8260B

page 1 of 2

Date Extracted:	9-23-10
Date Analyzed:	9-23-10

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 09-230-09 Client ID: A3-E1-P-092210-5.0

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.066
Chloromethane	ND		0.33
Vinyl Chloride	ND		0.066
Bromomethane	ND		0.066
Chloroethane	ND		0.33
Trichlorofluoromethane	ND		0.066
1,1-Dichloroethene	ND		0.066
Acetone	ND		0.33
lodomethane	ND		0.33
Carbon Disulfide	ND		0.066
Methylene Chloride	ND		0.33
(trans) 1,2-Dichloroethene	ND		0.066
Methyl t-Butyl Ether	ND		0.066
1,1-Dichloroethane	ND		0.066
Vinyl Acetate	ND		0.33
2,2-Dichloropropane	ND		0.066
(cis) 1,2-Dichloroethene	ND		0.066
2-Butanone	ND		0.33
Bromochloromethane	ND		0.066
Chloroform	ND		0.066
1,1,1-Trichloroethane	ND		0.066
Carbon Tetrachloride	ND		0.066
1,1-Dichloropropene	ND		0.066
Benzene	ND		0.066
1,2-Dichloroethane	ND		0.066
Trichloroethene	ND		0.066
1,2-Dichloropropane	ND		0.066
Dibromomethane	ND		0.066
Bromodichloromethane	ND		0.066
2-Chloroethyl Vinyl Ether	ND		0.33
(cis) 1,3-Dichloropropene	ND		0.066
Methyl Isobutyl Ketone	ND		0.33
Toluene	ND		0.33
(trans) 1,3-Dichloropropene	ND		0.066

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

VOLATILES by EPA 8260B page 2 of 2

Lab ID:	09-230-09		
Client ID:	A3-E1-P-092210-5.0		
Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.066
Tetrachloroethene	ND		0.066
1,3-Dichloropropane	ND		0.066
2-Hexanone	ND		0.33
Dibromochloromethane	ND		0.066
1,2-Dibromoethane	ND		0.066
Chlorobenzene	ND		0.066
1,1,1,2-Tetrachloroethane	ND		0.066
Ethylbenzene	ND		0.066
m,p-Xylene	0.20		0.13
o-Xylene	0.11		0.066
Styrene	ND		0.066
Bromoform	ND		0.066
Isopropylbenzene	ND		0.066
Bromobenzene	ND		0.066
1,1,2,2-Tetrachloroethane	ND		0.066
1,2,3-Trichloropropane	ND		0.066
n-Propylbenzene	0.11		0.066
2-Chlorotoluene	ND		0.066
4-Chlorotoluene	ND		0.066
1,3,5-Trimethylbenzene	0.26		0.066
tert-Butylbenzene	ND		0.066
1,2,4-Trimethylbenzene	0.83		0.066
sec-Butylbenzene	0.16		0.066
1,3-Dichlorobenzene	ND		0.066
p-Isopropyltoluene	0.19		0.066
1,4-Dichlorobenzene	ND		0.066
1,2-Dichlorobenzene	ND		0.066
n-Butylbenzene	ND		0.066
1,2-Dibromo-3-chloropropane	ND		0.33
1,2,4-Trichlorobenzene	ND		0.066
Hexachlorobutadiene	ND		0.33
Naphthalene	1.2		0.066
1,2,3-Trichlorobenzene	ND		0.066
	Percent		Contro
Surrogate	Recoverv		Limits

PercentControlSurrogateRecoveryLimitsDibromofluoromethane8666-128Toluene-d810368-1264-Bromofluorobenzene7853-134

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

VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL

page 1 of 2

Date Extracted:	9-23-10		
Date Analyzed:	9-23-10		
Matrix: Units:	Soil mg/kg (ppm)		

Lab ID: MB0923S2

1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0050
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0050
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
lodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0050
(trans) 1,3-Dichloropropene	ND		0.0010

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

VOLATILES by EPA 8260B METHOD BLANK QUALITY CONTROL page 2 of 2

Lab ID:

MB0923S2

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

	Percent	Control
Surrogate	Recovery	Limits
Dibromofluoromethane	99	66-128
Toluene-d8	112	68-126
4-Bromofluorobenzene	82	53-134

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

VOLATILES by EPA 8260B SB/SBD QUALITY CONTROL

Date Extracted:	9-23-10
Date Analyzed:	9-23-10
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: SB0923S1

	Spike		Percent		Percent	Recovery	
Compound	Amount	SB	Recovery	SBD	Recovery	Limits	Flags
1,1-Dichloroethene	0.0500	0.0598	120	0.0596	119	70-130	
Benzene	0.0500	0.0448	90	0.0446	89	70-121	
Trichloroethene	0.0500	0.0519	104	0.0499	100	70-124	
Toluene	0.0500	0.0481	96	0.0463	93	70-123	
Chlorobenzene	0.0500	0.0434	87	0.0427	85	71-119	

		RPD		
	RPD	Limit	Flags	
1,1-Dichloroethene	0	14		
Benzene	0	10		
Trichloroethene	4	12		
Toluene	4	12		
Chlorobenzene	2	9		

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

% MOISTURE

9-23&24-10	
Lab ID	% Moisture
09-230-01	8
09-230-03	9
09-230-05	11
09-230-07	9
09-230-08	12
09-230-09	10
09-230-10	7
09-230-11	7
09-230-12	9
09-230-13	10
	9-23&24-10 Lab ID 09-230-01 09-230-03 09-230-05 09-230-07 09-230-08 09-230-10 09-230-10 09-230-11 09-230-12 09-230-13

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference
A OnSite		Cl	1ain	of	Cu	S 1	toc	ly						·				Page	i	_of	2
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052		Turnaroun (in worki	d Reque ng days	st)	La	bo	rato	ory l	Nur	mbe	er:							09	- 2	30	
Phone: (425) 883-3881 • www.onsite-env.com		(Chec	k One)	CAME								Rec	uest	ed A	naly	sis					
Project Number:	_ 🗆 Sa	ime Day	(X	1 -Day	T		ι ,		m												
186002	_¥21	Day		3 Day					8260	SIM											
woodworth		andard (7 w PH analysis	orking o	lays)					les by	270D	MIS		4 <u>4</u>	(8)							
Brani Jurista		r i anaiysis	S WOLK	ing days)		BTEX .		STOOD STOOD	Volati	s by 8	3 / Q0	22	y 815	Metals	.	4					
Sampled by: Jon Peterson		(ot	her)		H-HOI	H-Gx/	A H	s by t	nated	olatiles	oy 827	07 808	des by	ICRA	Metals	y 166					sture
Lab ID	Date Sampled	Time	Matrix	# of Cont	IWTP	IWTP		olatile	łaloge	semivo	AHs t	CBs	esuci lerbici	otal P	CLP I	IEM b		1			% Moi
1 A3-E5-SW-092210-5-5	9/22/10	\$00	50,1	{			X	ی			<u>- LL</u>		<u>k -L</u>			-		_			X
2 A3-ES BTM-092210-9.5	1	815		(hold							1		-					
3 A3-E4 - SW -092210- 5.0		830		1	+		x							· ·	.						X
4 A3-E4-BTM-04220-9-0		845				-	X	HOL	₽B D					+							Ţ
5 A3-63-5W-092210-6.0		900					X									+	-				
6 A3-F3-BTM-042210-50	1	915		7			X	HOL													
7 A3-E2-BIM-092210- 8.0		1015		7	+		v		VS					-	$\left \right $	-		-			#-
8 43-C5-B+4 510-0922210-5 0		1100		Ċ			X								-						
7 43-61-0-092210-5.0		1215		4	-		X	Ý)									_			
10 A3-E1-RTM-092210-9.0		1240		1	-		X	9	<u> </u>		-										
Signature, 1/2	Salveat	Company				Date			Tuñe		é de	Còmm	ents/Sr	ecial:l	nstru	ctions					
Relinquished by		fara	lon			<u>Ar</u>	77	~(O	1	80x	2	2	d	ay	• 1	fo		D~			
Received by)	0E	22/10	9 F		71:	2 Z	10	١٤	30	C	+	do	ty-		Fro 7	r }	" /. 18/			
Relinquished by			- <u></u>		-							A) =	Sto	<u> </u>	, for		- ch-			2
Received by							-					Ú	A r	AUL	2E	PEZ	HE	יאיר מאוד	UCI SCHE	2.03	5
Relinquished by									·.	_				9/23	110	, (sai	UE DA	Y TAT	-)	,	
Received by																					
Reviewed by/Date		Reviewed	by/Date									Chroi	natog	rams	with	final	report				

- -

		· · · · · · · · · · · · · · · · · · ·	:															- <i>'</i>		-			
AL OnSite		Ch	ain	of (Cu	st	00	ly											Pa	ge	2	_of	2
Environmental Inc. 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com		Turnaround (in workin	l Reques ig days)	t	La	abo	rato	ory l	Nur	nbe)r:					KACEPE		0	9 -	· 2	3 ()	CONT OF CARLON
Company: forallan Consulting	🗆 Sa	(Check me Day	(Qne)	1 Day								- FC	ove	ગેલ	1/Avi		316						
Project Number: 188 00 2	X121	Day	. 🗆	3 Day					8260B	SIM											-		
Project Manager: Bropi Surista	□ Sta (TI	andard (7 w PH analysis	orking da 5 workir	ays) ng days)		TEX		260B	Volatiles by	by 8270D/	MIS / DI	0	8081A	8151A	letals (8)								
Sampled by: Jon Peterson		(otł	ner)		PH-HCIE	PH-Gx/B	XQ-Hd.	iles by 82	genated \	ivolatiles	s by 8270	s by 8082	cides by	icides by	RCRA N	o Metals	by 1664				,		oisture
Lab <u>(D</u>	Date Sampled	lime Sampled	Matrix	# of Cont?	TWN	IMN	MM	Volat	Halo	Sem	PAH	PCB	Pesti	Herb	Total	TCLI	HEM						W %
11 43-B3-SW-092210 -5.0	9/22/10	> 1330	Sort	1.			X													_			X
12 A3-B3-BTM-042210-8.0		1345	50.1	(X																
13 A7 C3-57M-092210-8.0		1495	501	<u> </u>			X													_			V
						-															_		
																3	<u> </u>						
						<u> </u>							_			\$							
		L																					
	_																						
Signature		Company -	<u>ر المحمد المحمد</u> 1			Date					<u>、</u>	Com		/Spe	cialair	nstruc	lion	5					
Relinquisted by	2	taral	lon			1-	<u>7</u> 7	-10	(9	20			1	d	ay			YX Vr			,		
Relinquished by	Th)	<u>le</u>	- Kus	e Et	4	71	271	\mathcal{O}	(8	500	2		(B)	ta.		L		- V - U					
Received by						-						- 3		~((
Relinquished by												-				.							
Received by																							
Reviewed by/Date		Reviewed	by/Date			_ <u></u>						Chr	omat	ogra	ms	with	final	repo	rt 🗆				
	DISTRIBUTI	ION LEGEND:	White - C	nSite Cop	y Yel	llow - (Client	Сору														-	



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

September 24, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-213

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2010.

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

Case Narrative

Samples were collected on September 21, 2010 and received by the laboratory on September 22, 2010. 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.

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

NWTPH-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-D4-BTM-092110-9.0					
Laboratory ID:	09-213-01					
Diesel Range Organics	ND	26	NWTPH-Dx	9-23-10	9-23-10	
Lube Oil Range Organics	ND	53	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terpheny/	104	50-150				
Client ID:	A3-D3-BTM-092110-10.0					
Laboratory ID:	09-213-02					
Diesel Fuel #2	27	26	NWTPH-Dx	9-23-10	9-23-10	Ν
Lube Oil	310	53	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	112	50-150				
Client ID:	A3-D2-SW-092110-5.0					
Laboratory ID:	09-213-03					
Diesel Fuel #2	1600	140	NWTPH-Dx	9-23-10	9-23-10	
Lube Oil	4200	280	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	123	50-150				
Client ID:	A3-D2-BTM-092110-7.5					
Laboratory ID:	09-213-04					
Diesel Fuel #2	42	27	NWTPH-Dx	9-23-10	9-23-10	N
Lube Oil	820	55	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	110	50-150				
Client ID:	A3-D1-SW-092110-5.0					
Laboratory ID:	09-213-05					
Diesel Fuel #2	290	140	NWTPH-Dx	9-23-10	9-23-10	N
Lube Oil	2500	280	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	122	50-150				
Client ID:	A3-D1-BTM-092110-7.0					
Laboratory ID:	09-213-06					
Diesel Range Organics	ND	28	NWTPH-Dx	9-23-10	9-23-10	
Lube Oil	84	57	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				

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

NWTPH-Dx

(with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-C1-SW-092110-5.0					
Laboratory ID:	09-213-07					
Diesel Range Organics	ND	210	NWTPH-Dx	9-23-10	9-23-10	U1
Lube Oil	3100	280	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	134	50-150				
Client ID:	A3-C1-BTM-092110-6.5					
Laboratory ID:	09-213-08					
Diesel Range Organics	ND	140	NWTPH-Dx	9-23-10	9-23-10	
Lube Oil	900	280	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	116	50-150				
Client ID:	A3-C2-BTM-092110-8.0					
Laboratory ID:	09-213-09					
Diesel Fuel #2	64	28	NWTPH-Dx	9-23-10	9-23-10	
Lube Oil	180	56	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	105	50-150				
Client ID:	A3-C4-BTM-092110-9.0					
Laboratory ID:	09-213-10					
Diesel Range Organics	ND	28	NWTPH-Dx	9-23-10	9-23-10	
Lube Oil	83	55	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				
Client ID:	A3-B4-SW-092110-5.0					
Laboratory ID:	09-213-11					
Diesel Fuel #2	73	29	NWTPH-Dx	9-23-10	9-23-10	N
Lube Oil	370	58	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits	-			
o-Terphenyl	108	50-150				
Client ID:	A3-D5-SW-092110-6.0					
Laboratory ID:	09-213-12					
Diesel Range Organics	120	28	NWTPH-Dx	9-23-10	9-23-10	N
Lube Oil	1200	57	NWTPH-Dx	9-23-10	9-23-10	
Surrogate:	Percent Recovery	Control Limits				-
o-Terphenyl	106	50-150				

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

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

			Date	Date	
Result	PQL	Method	Prepared	Analyzed	Flags
-					
MB0923S2					
ND	25	NWTPH-Dx	9-23-10	9-23-10	
ND	50	NWTPH-Dx	9-23-10	9-23-10	
Percent Recovery	Control Limits				
118	50-150				
	Result MB0923S2 ND ND Percent Recovery 118	Result PQL MB0923S2	Result PQL Method MB0923S2	DateResultPQLMethodPreparedMB0923S2ND25NWTPH-Dx9-23-10ND50NWTPH-Dx9-23-10Percent RecoveryControl Limits11850-150	ND 25 NWTPH-Dx 9-23-10 9-23-10 Percent Recovery Control Limits 118 50-150 V

		Per	cent	Recovery		RPD	
Res	sult	Reco	overy	Limits	RPD	Limit	Flags
-							
09-2 ⁻	13-04						
ORIG	DUP						
38.2	ND				NA	NA	
748	252				99	NA	
		110	110	50-150			
	09-2 ORIG 38.2 748	Result 09-213-04 ORIG DUP 38.2 ND 748 252	Result Reco 09-213-04 09-213-04 ORIG DUP 38.2 ND 748 252 110	Result Recovery 09-213-04	Percent Recovery Recovery Limits 09-213-04	Percent Recovery Limits RPD 09-213-04	Percent Recovery HPD RPD HPD 09-213-04 Limits RPD Limit 09-213-04 NA NA NA 38.2 ND NA NA 748 252 110 110 50-150

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

% MOISTURE

Lab ID

Date Analyzed:	9-23-10
Client ID	

A3-D4-BTM-092110-9.0	09-213-01	5
A3-D3-BTM-092110-10.0	09-213-02	5
A3-D2-SW-092110-5.0	09-213-03	10
A3-D2-BTM-092110-7.5	09-213-04	8
A3-D1-SW-092110-5.0	09-213-05	12
A3-D1-BTM-092110-7.0	09-213-06	12
A3-C1-SW-092110-5.0	09-213-07	10
A3-C1-BTM-092110-6.5	09-213-08	9
A3-C2-BTM-092110-8.0	09-213-09	11
A3-C4BTM-092110-9.0	09-213-10	9
A3-B4-SW-092110-5.0	09-213-11	14
A3-D5-SW-092110-6.0	09-213-12	12

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.

6

% Moisture



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-napthalene) 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 46.

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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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

ANA. OnSite		UI		DIĽ	JUS	TO	ly										Page		of	2
14649 NE 95th Street • Redmond, WA 98052 Phone: (425) 893-3881 • WAW onsite Physical Com	dat 17 mil	Turnaround (in workin	l Request ig days)		Labo	orato	ory	Nun	nbe	r:			Wannesdans	Sector States	'(09	-2]	C37.0714 974-04-04
ipany: farallas Casaultur		(Check	One)								Requ	este	6 A)	naly	SIS. 					
ect Number:		ame Day Day		Day				260B	W											
ect Name: Woodwoorth	/ □ St	andard (7 w	orking days	s)				es by 8	2 / CO7	Σ		◄	(8)							
Brani Jarista	(т	PH analysis	5 working	days)	DBTEX		3260B	Volatile	by 82	0D / SI	/ 8081/	y 8151	Metals		4					
Jon Peterson		(oth	ner)		PH-HCI	KO-Ho	les by 8	Jenated	volatiles	by 827	cides by	cides b	RCRA	Metals	by 166					oisture
D Sample Identification	Date Sampled	Time Sampled	Matrix	# of <u>Cont.</u>	L MN	T A	Volati	Halog	Semi	PAHs	Pestic	Herbi	Total	TCLE	НЕМ					W %
A3- D4-B7M-092110-900	9/21/10	830	Soil	1		X											_	_		\mathbf{X}
A3-D3-B(M-09210-10.0		915		(X								-				_		
A3-D2-5W-092110-5.0		930		(X												_		
A3-02-BTM-092110-7-5		945		(X														\times
43-DI-SW -092110- 5-0		(000		1		X														X
A3-01-BTM-092110-7-0		(015		(X														X
A3-C1-5W-092110- 5-0		1030		l		X														X
A3-C1-BTM-092110-6.5		1045	·	1		X														X
A3-C2-BTM-092110-8.0		1215		1	-	X														×
A3-C+-BTM-09210-9.0	N.	1315	V	(X														X
Signative Experies According		Company			D	ite 🔊	0 ¹² 81	Time	5	C A	ómmer	its/Spe	ciāl, l	nstru	ctions					
inquished by		122	llon		9	-22	-10	2	Z	>			4	f	d.		•			
ceived by	20-	O	e		9	.22	10	5	:50	24	-		((-		- J	νу				
inquished by																				
ceived by																				
viewed by/Date		Reviewed	by/Date			<u>. </u>					hrom	atoor	ams	with	final	repor	+ [¬]			

and the second
Ala. OnSite	Chain	of C	usi	ody	y									Page _	R	_ of	2
Environmental Inc.	Turnaround Reque	st)	Labo	rator	y Nu	mb	ər:						09	- 2	13	8	
Phone: (425) 883-3881 • www.onsile-env.com	(Check One)		a certa					Rec	ueste	d Ai	naly	sis					
Revallon Broject Number	Şame Day] 1 Day								1							
woodyarth	Day] 3 Day			8260E	SIM											
Project Name:	Standard (7 working o	tays)			yd se	/ Q0/	Σ			(8)							
Project Manager:	(TPH analysis 5 work	ing days)	Ш	ana	olatile	y 827	IS / O	V FOOD	8151/	etals							
Sampled by	(other)		GX/B	A Id	ated V	tiles b	8270	8082	s by e	RA M	atals	1664					nre
	Date	#.of	H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-	HLL	ogene	nivola	Hs by	Bs by	rbicide	al RC	LP Me	M by					Moist
Lab ID Sample Identification	Sampled Sampled Matrix	Cont	<u>z</u> z	MN V	Hal	Ser	<u>P</u>		Heil Te	<u>10</u>	10	뽀					%
11 A3-B4-SW -092110- 5.0	9-21-10 1400 5	-(<u>A</u>													
12 43- 05 -5W -092110- 6-0	- 1430 5	C		X										-,			7.
										1-			-	-		-	
						+	$\left \right $										
		+								-							+
										<u> </u>							_
	and the second	a harden der her till för		an a		- 1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		2000							S. 1911	10.15.5 10.5	
Belinguished by	Company		17 J	22-11		5F)		coun	ents/Sp		ISIRUO	alionsk		新新教室			<u>REIMES (</u>
Beceived by	- foración	8				م م م م			۲	14	A		-				
Belinguished by	<u>O</u> ≥	e	9.	22.10	2 6).5	0A		-1	TOIC	1	アキ)				
Reneived by																	
Belinguished by				_													
Pageived by				_													
Reviewed by/Data	Paviawad hu/Date					_											
neviewed by/bale	DISTRIBUTION LEGEND: White -	OnSite Copy	Yellow -	Client Co	ру			Chroi	natogr	ams	with	tinal r	eport [

and the second ---

. .



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

September 23, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1009-199

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2010.

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

Case Narrative

Samples were collected on September 20, 2010 and received by the laboratory on September 21, 2010. 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-Dx (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

o-Terphenyl

	•			Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	A3-B2-SW-092010-4.0					
Laboratory ID:	09-199-01					
Diesel Fuel #2	66	28	NWTPH-Dx	9-21-10	9-21-10	
Lube Oil	540	55	NWTPH-Dx	9-21-10	9- <u>21-10</u>	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	112	50-150				
Client ID:	A3-B2-BTM-092010-6.5					
Laboratory ID:	09-199-02					
Diesel Range Organics	ND	28	NWTPH-Dx	9-21-10	9-21-10	
Lube Oil Range Organics	ND	55	NWTPH-Dx	9-21-10	9-21-10	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	112	50-150				
Client ID:	A3-A2-SW-092010-4.0					
Laboratory ID:	09-199-07					
Diesel Fuel #2	390	30	NWTPH-Dx	9-21-10	9-21-10	
Lube Oil	240	59	NWTPH-Dx	9-21-10	9-21-10	
Surrogate:	Fercent Recovery	Control Limits				
o-Terphenyl	119	50-150				
Client ID:	A3-A2-BTM-092010-6.5					
Laboratory ID:	09-199-08					
Diesel Range Organics	ND	29	NWTPH-Dx	9-21-10	9-21-10	
Lube Oil Range Organics	ND	58	NWTPH-Dx	9-21-10	9-21-10	
Surrogate:	Percent Recovery	Control Limits				

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

50-150

104

NWTPH-Dx QUALITY CONTROL (with acid/silica gel clean-up)

Matrix: Soil Units: mg/Kg (ppm)

				Date	Dat	е	
Analyte	Result	PQL	Method	Prepared	Analy	zed	Flags
METHOD BLANK							
Laboratory ID:	MB0921S2						
Diesel Range Organics	ND	25	NWTPH-Dx	9-21-10	9-21-	10	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-21-10	9-21-	10	
Surrogate:	Percent Recover	ry Control Limits					
o-Terphenyl	127	50-150					
			Percent	Recovery		RPD	
Analyte	Result		Recovery	Limits	RPD	Limit	Flags
DUPLICATE							
Laboratory ID:	09-199-0)2					
	ORIG D)UP					
Diesel Range Organics	ND	ND			NA	NA	
Lube Oil Range Organics	ND	ND			NA	NA	
Surrogate:							
o-Terphenyl			112 116	50-150			

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

% MOISTURE

Date Analyzed: 9-21-10

Client ID	Lab ID	% Moisture
A3-B2-SW-092010-4.0	09-199-01	9
A3-B2-BTM-092010-6.5	09-199-02	10
A3-A2-SW-092010-4.0	09-199-07	16
A3-A2-BTM-092010-6.5	09-199-08	13

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



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-napthalene) 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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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

A OnSite	Chain of (Custody	Page of
Environmental Inc. 14648 NE 95th Street - Redmond, WA 98052	Turnaround Request	Laboratory Number:	09-199
oper Number: [88002 oject Number: [88002 oject Name: Woodwarth Cakeview oject Manager: Bran. Juristan ampled by: Jon Referdant	(Check One)	H-HCID H-Gx/BTEX H-Dx es by 8260B es by 8260B enated Volatiles by 8260B olatiles by 8260B olatiles by 8260B olatiles by 8260B by 8270D / SIM by 1664 by 1664	isture
$\frac{10}{A3} \frac{1}{B3} = \frac{10}{B3} = \frac{10}$	Date Time # of Sampled Sampled Matrix Cont® 7-20-10 14-342 Spil 1	NWTF NWTF NWTF Halog PAHS PAHS Pestic Herbii Herbii HEM	% WC
2 A7-182-BTM-092010-6.5	1445 1		
1 A3-B1-SW-092010-7-0 1 A3-B1-BTM-092010-6.5	15#5		
5 A3-BO-SW-092010-4.0 6 A3-BO-BENT-092010-6-5	1545 1		
7 A3-A2-SW-092010-4-0	1600		
5. AS AZ UKM-042010-0-5	- 16(5 - (
Signature was as in the signature	Company, Science and Science	Date Time Comments/Special/Instructions	
Relinquished by	forallon	9/21/10 0606 -ttoid	
Relinquished by		Added 9/21/1	0.DB (2 day
Relinquished by		· · · · · · · · · · · · · · · · · · ·	- TAT
Received by	· · ·		
Reviewed by/Date	Reviewed by/Date	Chromatograms with final repor	



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

April 23, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1004-053

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on April 9, 2010.

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

Case Narrative

Samples were collected on April 8, 2010 and received by the laboratory on April 9, 2010. 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.

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

NWTPH-Dx

Matrix:	Soil				
Units:	mg/kg (ppm)		_ .	_ .	
			Date	Date	
Analyte	Result	PQL	Prepared	Analyzed	Flags
Lah ID	04-053-01				
Client ID:	A2-7-040810-1 5				
Discil David Oracia	<u>A270400101.0</u>	1.10		4 40 40	
Diesel Range Organics	520	. 140	4-16-10	4-16-10	Y,N
Lube Oil	4200	270	4-16-10	4-16-10	Y
Surrogate: o-terphenyl	112%	50-150			
I ab ID [.]	04-053-05				
Client ID:	A1-11-040810-3				
Diesel Range Organics	1700	510	4-16-10	4-16-10	Y,N
Lube Oil	21000	1000	4-16-10	4-16-10	Y
Surrogate: o-terphenyl		50-150			S
Lab ID:	04-053-07				
Client ID:	A3-4-040810-4				·
Diesel Fuel#2	3200	28	4-16-10	4-16-10	Y
Lube Oil	680	56	4-16-10	4-16-10	Y
Surrogate: o-terphenyl	101%	50-150			
Lab ID:	04-053-10				
Client ID:	A3-1-040810-4				
Diesel Fuel#2	1400	140	4-16-10	4-16-10	Y
Lube Oil	5800	290	4-16-10	4-16-10	Y
Surrogate: o-terphenyl	137%	50-150			
Lab ID:	04-053-12				
Client ID:	A3-2-040810-4.5				
Diesel Fuel#2	770	140	4-16-10	4-16-10	Υ
Lube Oil	4700	270	4-16-10	<u>4-16-</u> 10	Y
Surrogate: o-terphenyl	118%	50-150			

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.

3

NWTPH-Dx

Matrix:	Soil				
Units:	mg/kg (ppm)				
			Date	Date	
Analyte	Result	PQL	Prepared	Analyzed	Flags
Lab ID:	04-053-13				
Client ID:	A3-3-040810-4.5				
Diesel Fuel#2	2700	150	4-16-10	4-16-10	Y
Lube Oil	780	290	4-16-10	4-16-10	Υ
Surrogate: o-terphenyl	83%	50-150			

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

NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracted:	4-16-10
Date Analyzed:	4-16-10

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	MB0416S1
Diesel Range: PQL:	ND 25
Identification:	
Lube Oil Range: PQL:	ND 50
Identification:	
Surrogate Recovery o-Terphenyl:	104%

Y

Flags:

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

NWTPH-Dx DUPLICATE QUALITY CONTROL

Date Extracted:	4-16-10
Date Analyzed:	4-16-10

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	04-053-01	04-053-01 DUP
Diesel Range:	481 130	491 130
RPD:	2	
Surrogate Recovery		
o-Terphenyl:	112%	108%
Flags:	Y.N	Y,N

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

NWTPH-Dx

Matrix:	Soil				
Units:	mg/kg (ppm)				
			Date	Date	
Analyte	Result	PQL	Prepared	Analyzed	Flags
Lah ID:	04-053-04				
Client ID:	A2-8-040810-2				
Diesel Range	ND	32	4-21-10	4-22-10	Y,U1
Lube Oil	320	53	4-21-10	4-22-10	Y
Surrogate: o-terphenyl	76%	50-150			
Client ID:	04-053-15 A1-12-040810-7.5				
Diesel Fuel#2	620	540	4-21-10	4-21-10	Y,N
Lube Oil	7700	1100	4-21-10	4-21-10	Y
Surrogate: o-terphenyl		50-150			S
Lab ID	04-053-16				
Client ID:	A3-5-040810-3.5				
Diesel Fuel#2	190	29	4-21-10	4-22-10	Y
Lube Oil	290	57	4-21-10	4-22-10	Y
Surrogate: o-terphenyl	64%	50-150			

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

NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracted:	4-21-10
Date Analyzed:	4-22-10

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:

MB0421S2

Υ

Diesel Range:	ND
PQL:	25

Identification:

Lube Oil Range:	ND
PQL:	50
Identification:	
Surrogate Recovery	
o-Terphenyl:	88%

Flags:

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

NWTPH-Dx DUPLICATE QUALITY CONTROL

Date Extracted: Date Analyzed:	4-21-10 4-22-10		
Matrix: Units:	Soil mg/kg (ppm)		
Lab ID:	04-053-04	04-053-04 DUP	
Diesel Range: PQL:	ND 30	ND 25	
RPD:	N/A		
Surrogate Recovery o-Terphenyl:	76%	76%	
Flags:	Y,U1	Y	

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

% MOISTURE

Date Analyzed: 4-16&21-10

Client ID	Lab ID	% Moisture
A2-7-040810-1.5	04-053-01	7
A2-8-040810-2	04-053-04	5
A1-11-040810-3	04-053-05	3
A3-4-040810-4	04-053-07	11
A3-1-040810-4	04-053-10	13
A3-2-040810-4.5	04-053-12	7
A3-3-040810-4.5	04-053-13	14
A1-12-040810-7.5	04-053-15	8
A3-5-040810-3.5	04-053-16	12

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



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-napthalene) are present in the sample.

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

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

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

ConSite	Chain of C	ustody	Page of
Environmental Inc.	Turnaround Request (in working days)	_aboratory Number:	04-053
Company: Parallon Const. 144	(Check One)	Requested Analysis	
Project Number:	2 Day 3 Day		
Project Name: Project Manager:	Standard (7 working days) (TPH analysis 5 working days)	FEX 60B 61attiles by 8 70D / SIM 0 / SIM 8151A etals (8)	
Sampled by: Jon P	(other)	PH-GX/B PH-GX/B PH-GX/B lies by 82 s by 8270 by 8270 cides by (cides by (cides by 1664 by 1664 by 1664	oisture
Da Lab ID Sample Identification Sam	ate Time # of ppled Sampled Matrix Cont.	NWT NWT NWT NWT NWT NWT Halog Herbi Herbi HEM HEM	W %
1 12-7-040810-1.5 418	8/10 830 Soil 1		
2 A2-G-040810-1.5	910 1		
3 12-5-040.610-3	930 1		
4 A2-8-040810=2	1015 1		
5 A1-11-040810-3	(100 1		
6 A1-11-040810-8	1110		
7 43-4-040810-4	1140		
8 13-4-040810-6	1145 1		
9 43-4-040810-6-5	1150 1		
10,43-1-040810-4	1 1215 1		
Signature	Company	Date Time Comments/Special Instructions:	
Relinquished by	Farallon	+14/10 0800 - hold for	DX
Received by Son Feterson		Dranis-ins	tractions
Renaixed by	002	4/0/10 1000 Matched 4/1	2/10. DE
Belinguished by	000	millio 1000 Charled 4/2	0/10.22
Received by	· · · · · · · · · · · · · · · · · · ·		
Reviewed by/Date	Reviewed by/Date	Chromatograms with final repo	

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy



1

Chain of Custody

Page _____ of ____

Environmental Inc.	Turnaround (in working	Request a davs)	La	bora	atory	y Nu	mbe	ər:								04	<u> - (</u>)5	3
Phone: (425) 883-3881 • Fax: (425) 885-4603	- (Check	One)							Re	ques	ted /	Anal	ysis	N.					
Project Number	Same Day	🗌 1 Day																	
1990 100 D	2 Day	🗌 3 Day		3		260B													
Project Name:	Standard (7 wo	rking days)				s by 8	g	_		ļ	. 6	5							
Project Mapager:	(TPH analysis &	5 working days)		Ш	BO	latile	y 827	/ SIN		081A	/ slat								
Sampled by:	-		CID	XVBT	V 826	ed Vc	les b	2700	3082	by 8	a Me	als	664						Ð
202 P	(othe	er)	H-Hd.	D-H-C	цн diles d	genat	ivolati	s by 8	s by 8	icides		P Met	1 by 1	.					Aoistu
ab IDSample IdentificationS	Date Lime Sampled Sampled	# of Matrix Cont.	LMN	INN (Volat V	Halo	Sem	PAH	PCB	Pest	Tota	10 10	HEN					_	N %
1 A3-1-040810 -8 L	+/8/10 1220	Soil																	
243-2-040810 -4-5	1300	1 1		0	Ø														\bigotimes
12 43-3-040810-4.5	1320			K	8														X
14 A3-3-040810 -5	1325				4	+				-			+-						
15 Ain 12-040010-25	100	$-\frac{1}{1}$			2			<u> </u>				+	+	+		\rightarrow			m
	1-100		_		$ \neq $							+				<u> </u>	_	_	H
6 43-5-0 70810-3-5	1500			K	4					_									\square
												_						_	
· · · · · · · · · · · · · · · · · · ·						_										\square		·	
Signature	Company			Date		Tim	e		Comi	ments/	Specia	l Instr	uction	s:					
Relinquished by	far	llon	c	f/9	11,0	0 0	28	00		1	1	1.1				R			
Received by	(d	XE,		49	2/10	$\frac{1}{2}$	Ø	2			X		1		1	Di	TERA		-
Relinquished by										\bigotimes	QA	90	لمعلى	41	121	10.	DZ Z		
Received by										\bigcirc	Ad	de	d u	12	0 [?	0	·H	5	
Relinquished by										<u> </u>	,								
Received by																			
Reviewed by/Date	Reviewed by	y/Date				_ +			Chro	omato	gram	s with	n fina	l repo	rt 🗆				

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy



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

April 22, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1004-047B

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on April 8, 2010.

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

Case Narrative

Samples were collected on April 7, 2010 and received by the laboratory on April 8, 2010. 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.

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

NWTPH-Dx

Matrix: Units:	Soil mg/kg (ppm)		Date	Date	
Analyte	Result	PQL	Prepared	Analyzed	Flags
Lab ID: Client ID:	04-047-12 A1-9-040710-3.5				
Diesel Range	ND	28	4-20-10	4-21-10	Y
Lube Oil Range	ND	55	4-20-10	4-21- <u>10</u>	Y
Surrogate: o-terphenyl	107%	50-150			

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.

1

NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracted:	4-20-10
Date Analyzed:	4-20-10

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	MB0420S2
Diesel Range: PQL:	ND 25
Identification:	
Lube Oil Range: PQL:	ND 50
Identification:	
Surrogate Recovery o-Terphenyl:	82%
Flags:	Y

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

NWTPH-Dx DUPLICATE QUALITY CONTROL

Date Extracted:	4-20-10
Date Analyzed:	4-20-10

Matrix: Soil Units: mg/kg (ppm)

 Lab ID:
 04-105-13
 04-105-13 DUP

 Diesel Range:
 ND
 ND

 PQL:
 25
 25

 RPD:
 N/A
 N/A

Surrogate Recoveryo-Terphenyl:84%88%Flags:YY

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

Date Analyzed: 4-20-10

Client ID Lab ID % Moisture 9

A1-9-040710-3.5

04-047-12

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



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-napthalene) are present in the sample.

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

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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

A OnSite		Ch	nain	of (Cu	sta	Ddy	y										Page _	1	of	ス
Environmental Inc.		Turnaroun (in worki	d Reques ng days)	t	La	bora	ator	γ Νι	umb	er:								04		04	7
Phone: (425) 883-3881 • Fax: (425) 885-4603		(Chec	k One)								Re	que	stee	i An	aliys	is -					
Project Number:	🗔 Sai	me Day		1 Day				B													
Project Name		Day		3 Day				y 826													
Project Manager:	TF	ndard (7 w PH analysis	vorking da s 5 workir	ays) ng days)			4	atiles b	8270D	SIM		31A	51A	als (8)							
Sampled by:					GD	x/BTE	X BORD	Nozo /	es by	270D /	082	by 808	by 81	A Meta	SIS	64					
Jon Peterson	Defe	(ot	her)	11 - f	H-Hd	DH-U	U-H-U	genate	ivolatil	s by 8	s by 8	icides	licides	RCR	P Met	1 by 16					loisture
Lab ID Sample Identification	Sampled	Sampled	Matrix	# of Cont.	۶ N			Halo	Sem	PAH	PCB	Pest	Herb	Total	10	HEN					W %
1 A1-8-040710-7.5	4.17/10	815	5011	1		6				<u> </u>						_					
2 41-3-040710-5.5		900		1			9		_												
3 1-3-040710-7-5		910		1			_		_									_			
4 AI-4-040510-3		935					~														
5 A1-4-040710-4		940		`` {			Ø				ļ					_				-	\otimes
6 A1-5-040710-6		1010				C	Ø								_			_	-		
1 A1-5-040710-8		1015		(_						_						
0 A1-1-040710-4		1050		1		¢	X						•								Ø
7 A1-2-040710-3		(135		(~		_		-										
10 A1-7-040710-6		1230		(Ć	<u>୬</u>		The stage of a				1. A.				2.14.20	e seture	la office to		Ø
Relinquished by		Company Cara	-ila	<u> </u>		4/9	\$10	0	160	つ <i>し</i>		101500 H_2(l <u>son</u>		3000					1	
Received by		108	25	<u> </u>		4/8	ĺκ	> /	14	5	1		6	رو)) م (آر		d	11)0	> \' • • • •	() ()	27	0.2.0
Relinquished by		<u> </u>	<u> </u>							<u> </u>			Q C	8H	00	d	$\sqrt{1}$	110	T	ショ	
Received by													C	Hd	610	0	1120		- 7	Ъ.	
Relinquished by																					
Received by											ļ	`									
Reviewed by/Date	ewed by/Date Reviewed by/Date Chromatograms with final report																				



17

Chain of Custody

Page _ 2 of _ 2

Environmental Inc.		Turnaround	l Reques na davs)	t.	La	bor	ato	ory I	Nur	nbe	er:								0	4 -	· 0 /	17	
Phone: (425) 883-3881 • Fax: (425) 885-4603 Company:	<u> (* * * * * * * * * * * * * * * * * * *</u>	(Check	cone)	<u> </u>		С. 11.2				2		Re	que	sted	Ana	alys	sis						
Frolet Number: Consulting	_ 🗆 Sa	me Day		1 Day					~		·				,								
(88 007	20	Day		3 Day					8260E														
hoodworth	Sta	indard (7 w	orking da	ays)					es by	DOT:	M		A	A	(8)								
Project Manager:		'H analysis	5 workir	ng days)	0	3TEX		260B	Volati	by 82	0D / S	្ត	8081	y 8151	Metals		4	ŀ					
Sampled by:	<u> </u>	(oth	ner)		H-HCII	H-GX/E	Kig-	s by 8	nated	latiles	y 827	oy 808	des by	des b	CHAI	Metals	y 166			Ì			isture
Lab ID Sample Identification	Date Samiled	Time Samnled	Matrix	# of Cont	MUTPI	IWTP	Hailly	/olatile	laloge	Semivo	d sHA ^c	CBs t	Destici	Herbici	lotal H	LCLP	HEM b						% Mol
11 41-6-040710-3	4710	1313	Soil		<u> </u>	<u> </u>	Ø																\otimes
12 A1-9-040710-3.5		1350		1			0			·													0
13 A2-2-040710-1.5		.1415		١	-	(Ø																\bigotimes
14 A2-3-0-10710-3		1500		1	1	1																	
15 A2-1-040710-4		1545		1			Ø											-	_				\otimes
16 A2-4-040710-1.5		1610		1	1																		
17 A2-4-040710-3	~	(615	¥	ſ	-	1	60																Ø
								1										·					
Signature		Company	2000 r [Date			Time	~ ~		Com	ments	/Spec	ial_Ins	struc	tions:	<u>1985</u>		ອຈີ	<u> </u>		
Received by		(zral	lon				$\delta[1]$	0	06	20	0			old		to	sr		Ve	an	1		
Relinquished by			80			-11	<u>, 31</u>	10	73	72	2	:	Ø	2 _A e	lok	d	4]0	she).1	DB	> .		
Received by												(Ô	Ald	60	Ч	2	6 1	0 .	Y	•		
Relinquished by																							
Received by																							
Reviewed by/Date		Reviewed	by/Date									Chr	omat	ograr	ns w	vith f	inal	repor	t 🗆				



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

April 16, 2010

Brani Jurista Farallon Consulting, LLC 975 5th Avenue NW Issaquah, WA 98027

Re: Analytical Data for Project 188-002 Laboratory Reference No. 1004-047

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on April 8, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 3() 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

Case Narrative

Samples were collected on April 7, 2010 and received by the laboratory on April 7, 2010. 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.

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

NWTPH-Dx

Matrix:	Soil				
Units:	mg/kg (ppm)		Dete	Data	
Anabata	Desult	DOI	Date	Date	Flore
Analyte	Hesult	PQL	Prepareo	Analyzed	Flags
Lab ID:	04-047-01				
Client ID:	A1-8-040710-7.5				
Diesel Range	ND	140	4-13-10	4-16-10	Y
Lube Oil	1200	270	4-13-10	4-16-10	Y
Surrogate: o-terphenyl	85%	50-150			
Lab ID:	04-047-02				
Client ID:	A1-3-040710-5.5				
Diesel Fuel #2	5300	1400	4-13-10	4-15-10	Y,N
Lube Oil	51000	2700	4-13-10	4-15-10	Y
Surrogate: o-terphenyl		50-150			S
Lab ID:	04-047-05				
Client ID:	A1-4-040710-4				
Diesel Fuel #2	1,40	2!9	4-13-10	4-13-10	Y
Lube Oil	420	58	4-13-10	4-13-10	Y
Surrogate: o-terphenyl	81%	50-150			
Lab ID: Client ID:	04-047-06 A1-5-040710-6				
Diesel Fuel #2	840	140	4-13-10	4-14-10	Y,N
Lube Oil	7800	280	4-13-10	4-14-10	Ŷ
Surrogate: o-terphenyl	90%	50-150			
Lab ID:	04-047-08				
Client ID:	A1-1-040710-4				
Diesel Fuel #2	630	140	4-13-10	4-14-10	Y
Lube Oil	5200	_270		4-14-10	Y
Surrogate: o-terphenyl	101%	50-150			

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.

. –

NWTPH-Dx

Matrix:	Soil				
Units:	mg/kg (ppm)				
			Date	Date	
Analyte	Result	PQL	Prepared	Analyzed	Flags
l ab ID:	04 047 10				
Client ID:	04-047-10 Δ1-7-040710-6				
Diesel Bange		530	4-13-10		
Luba Oil	6700	1100	4 12 10	4 15 10	I V
Surrogate: o-terphenyl	0700	50-150	4-13-10	4-15-10	<u> </u>
Sunogate. Sterpheny		50-150			0
Lab ID:	04 047 11				
Client ID:	A1-6-040710-3				
Diesel Fuel #2	190	26	4-13-10	4-14-10	Y
Lube Oil	930	53	4-13-10	4-14-10	Y
Surrogate: o-terphenyl	80%	50-150			
Lab ID:	04-047-13				
Client ID:	A2-2-040710-1.5				
Diesel Fuel #2	470	27	4-13-10	4-14-10	Y
Lube Oil	1600	53	4-13-10	4-14-10	Y
Surrogate: o-terphenyl	73%	50-150			
Client ID:	04-047-15 A2-1-040710-4				
Diesel Fuel #2	160	27	4-13-10	4-13-10	~~~
	870	53	4-13-10	4-13-10	, V
Surrogate: o-terphenyl	77%	50-150	+ 10 10	41010	· ·
Lab ID:	04-047-17				
Client ID:	A2-4-040710-3				
Diesel Range	ND	1300	4-13-10	4-15-10	Y
Lube Oil	15000	2600	4-13-10	4-15-10	Y
Surrogate: o-terphenyl		50-150			S

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

NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracte	d:	4-13-10
Date Analyzed	4:	4-13-10

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:

MB0413S1

Y

Diesel Range:	ND
PQL:	25
Identification:	

Lube Oil Range: PQL:	50
identification:	
o-Terphenyl:	77%

Flags:

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.

5

NWTPH-Dx DUPLICATE QUALITY CONTROL

Date Extracted:	4-13-10
Date Analyzed:	4-14-10

Matrix: Soil Units: mg/kg (ppm)

Lab ID:	04-047-11	04-047-11 DUP
Diesel Range:	177	143
PQL:	25	25
RPD:	21	

80%	87%
Y	Y
	80% Y

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

% MOISTURE

Date Analyzed: 4-13-10

Client ID	Lab ID	% Moisture
		_
A1-8-040710-7.5	04-047-01	8
A1-3-040710-5.5	04-047-02	8
A1-4-040710-4	04-047-05	14
A1-5-040710-6	04-047-06	9
A1-1-040710-4	04-047-08	9
A1-7-040710-6	04-047-10	6
A1-6-040710-3	04-047-11	5
A2-2-040710-1.5	04-047-13	6
A2-1-040710-4	04-047-15	6
A2-4-040710-3	04-047-17	4

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



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-napthalene) are present in the sample.

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

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

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.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

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

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

17		
	OnSite	
	Environmental	Ir

Chain of Custody

Page _____ of _____

V	Environmental Inc.		Turnaroun (in worki	d Reques ng days)	t	La	boı	rato	ry	Nu	mbe	er:								C) Ą	-0	A.	7
Company	Phone: (425) 883-3881 • Fax: (425) 885-4603		(Checl	k One)			$\sum_{i=1}^{n} \sum_{j=1}^{n} i$	elar ⊳ cia					Re	eque	sie	d Ar	naly	sis						
fai	allon Concultury	□ Sa	ime Dav		1 Dav	2050-020		Non 2000		610410-0186-582	2,000,000,000	1			1962705664			por panea				7.4.9455730445959		2236369090
Project Number	02	2 [Day		3 Day					260B														
Project Name;		- AR	andard (7 w	orkina da	avs)					by 8											ŀ			
Project Manage		(TI	PH analysis	5 workir	ng days)		×		ß	atiles	8270	SIM		31A	51A	als (8	ļ							
1 De	ani Jurista					e.	/BTE		8260	d Vol	s by	70D	82	y 80	oy 81	Meta	S	4						
Sampled by:	- Peterson		(ot	her)		R	1 S T		kd s	nate	olatile	y 82	oy 80	des b	des t	CRA	Metal	y 166						sture
Lab ID	Sample Identification	Date Samoled	Time Sampled	Matrix	# of Cont	NWTP	NWTP	MTP	Volatile	Haloge	Semivo	PAHs I	PCBs	Pestici	Herbic	Fotal F	TCLP	HEM b						% Moi
1 A1-	-8-040710-7.5	4/7/10	815	50,1	ļ			Ŵ																X
2 A1-	3-040710-5.5	1	900		1			Ø																Ø
3 11-	3-040710-7-5		910		1																			
4 Ai-	-4-040710-3		935		1																			
5 A1-	4-040710-4		940		\			Ø																\bigotimes
GAI-	5-040710-6		1010		1			\bigotimes																\oslash
7 A1-	5-040710-8		1015		(
8 A1-	1-040710-4		1050		1			\bigotimes															_	Ø
7 A1-	2-040710-3		1135		(ļ	-															_	
[0 A1-	7-040710-6	V	1230	V	((Ø	للمستخاذين					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1										Ø
	Signature	and the second second	Company		1	1000	Date			Time			Com	ments	s/Spe	cial In	istruc	tions	<u>.</u>		19-13 19-13	1		
Relinguished	by Chla le		Java	llon	_		4/	8/10	2	06	60	D		tal.	d	to	1	30	an	15	1hs	tru	1.00	35
Received by	MG		(A)	8_			7	<u>SU</u>	0	$\left \right $	14	5			6	ZA	Ad	ed	4	191	0	Di	3	
Relinquished I	by		4										ļ		Y		10.01	•	Ľ					
Received by																								
Relinguished	by																							
Received by	v																							
Reviewed by/i	Date	•	Reviewed	by/Date									Chr	omat	logra	ims v	with	final	repo	rt 🗆				



Chain of Custody

Page _ 2_ of _ 2_

....

Environmental Inc.		Turnaround	Request		La	bora	ator	v Nu	mbe	er:	_						0	4 -	0	47	
Phone: (425) 883-3881 • Fax: (425) 885-4603	12	(Check	One)		<u>.</u>	Re	dues	ied /	hal	/sis						
Friet Number Consulting	🗌 Sar	ne Day		1 Day	GRAA.																
(88002	2 D	ay		3 Day				8260B													
Project Name: woodworth	Sta	ndard (7 wo	orking da	ys)				es by	CI07	M		A	(8)								
Project Manager:		'H analysis	5 WORKIN	g days)		3TEX		Volatil	by 82	0D / S	ស្ព	8081	Metals		4						
Sampled by: Jon		(oth	ier)		H-HCI	H-GX		es by c	olatiles	by 827	by 806	des by	SCRA	Metals	oy 166						isture
ab ID	Date Sampled	Time Sampled	Matrix	# of Cont	NWTP	NWTP	TV	Haloge	Semiv	PAHs	PCBs	Pestici	Total F	TCLP	HEM I						% Mo
11 41-6-040710-3	4710	(313	Soil	1			Ø														Ø
12 A1-9-040710-3.5		1350		1																	
13 A2-2-040710-1.5		1415		١			Ø						_								\otimes
14 A2-3-040710-3		1500		1																	
15 A2-1-040710-4		1545		١			Ø														\oslash
16 A2-4-040710-1.5		1610		1																	
17 A2-4-040710-3	2	(615	4	٢			Ø			-			_	_		_				_	Ø
														_							
													_	_		_		_		_	
		0				Data					0.000			1.16			Late 12			ر میں بیار	
Relinquished by	<u>le de calle al</u>	Can!	lan	<u>itri litri</u>		44	3/10	20	60) 0		шаца Ц	10	nusu	<u></u>	5	Ba				
Received by			815	_		4	2/1	0 /	14	5			ла)		101	~1.	VC	ชุญ	(1		
Relinquished by												0	Ha	MRCA	91	71/(0.		>		
Received by												•									
Relinquished by							_														
Received by											_										
Reviewed by/Date		Reviewed	by/Date								Chr	omato	gram	is wit	h fina	l repo	ort 🗆				

ATTACHMENT C SOIL CLEANUP LEVEL WORKSHEETS

RISK-BASED CLEANUP LEVEL CALCULATION FOR PETROLEUM-CONTAMINATED SOIL Woodworth Lakeview Facility Lakewood, Washington VCP Project No: SW1012

Farallon PN: 188-002

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750 Site Information

Date: 10/20/2010 Site Name: Woodworth Lakevew Facility Sample Name: A2-B1-P-100510-2.0 Measured Soil TPH Concentration, mg/kg: 2,934.536

1. Summary of Calculation Results

E	Mathad/Gaal	Protective Soil	With Measu	red Soil Conc	Does Measured Soil
Exposure Pathway	Miethod/Goai	TPH Conc, mg/kg	RISK @	HI @	Conc Pass or Fail?
Protection of Soil Direct	Method B	3,699	1.20E-07	7.94E-01	Pass
Contact: Human Health	Method C	44,489	2.97E-08	6.60E-02	Pass
Protection of Method B Ground	Potable GW: Human Health Protection	100% NAPL	7.74E-07	6.11E-02	Pass
Water Quality (Leaching)	Target TPH GW Conc. @ 500 ug/L	100% NAPL	NA	NA	Pass

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494). Warning! Check Residual Saturation (WAC340-747(10)).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

2. Results for Froteenon of Son Direct Contact Fallman Froman									
	Method C: Industrial Land Use								
Protective Soil Concentration, TPH mg/kg	3,698.88	44,488.68							
Most Stringent Criterion	HI =1	HI =1							

	Pro	tective Soil Concent	ration @Method	Protective Soil Concentration @Method C						
Soil Criteria	Most Stringent?	TPH Conc, mg/kg	RISK @	НІ @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @		
HI =1	YES	3.70E+03	1.51E-07	1.00E+00	YES	4.45E+04	4.50E-07	1.00E+00		
Total Risk=1E-5	NO	2.45E+05	1.00E-05	6.62E+01	NO	9.88E+05	1.00E-05	2.22E+01		
Risk of Benzene= 1E-6	NO	5.33E+06	2.18E-04	1.44E+03						
Risk of cPAHs mixture= 1E-6	NO	2.46E+04	1.00E-06	6.65E+00	1	NIA				
EDB	NA	NA	NA	NA		INA				
EDC	NA	NA	NA	NA						

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	NA
Protective Ground Water Concentration, ug/L	NA
Protective Soil Concentration, mg/kg	Soii-to-Ground Water is not a critical pathway!

Ground Water Criteria	Protective	Protective Potable Ground Water Concentration @Method B							
Ground water Criteria	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	Conc, mg/kg				
HI=1	YES	2.33E+01	1.16E-06	7.19E-02	100% NAPL				
Total Risk = 1E-5	YES	2.33E+01	1.16E-06	7.19E-02	100% NAPL				
Total Risk = 1E-6	YES	2.29E+01	1.00E-06	6.75E-02	8.51E+03				
Risk of cPAHs mixture= 1E-5	YES	2.33E+01	1.16E-06	7.19E-02	100% NAPL				
Benzene MCL = 5 ug/L	YES	2.33E+01	1.16E-06	7.19E-02	100% NAPL				
MTBE = 20 ug/L	NA	NA	NA	NA	NA				

Note: 100% NAPL is 76000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Counter A Water Criteria	Protective	Protective Soil		
Ground water Criteria	TPH Conc, ug/L	Risk @	HI @	Conc, mg/kg
Target TPH GW Conc = 500 ug/L	2.33E+01	1.16E-06	7.19E-02	100% NAPL

Washington State Department of Ecology, Toxics Cleanup Program: Soil Cleanup Level for TPH Sites - Main Data Entry Form and Calculation Summary

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750 1. Enter Site Information

Date: 10/18/10 Site Name: Woodworth Lakevew Facility

Sample Name: A3-B2-P-100510-4.5

2. Enter Soil Concentrat	ion Measured		(Note
Chemical of Concern	Measured Soil Conc	Composition	
or Equivalent Carbon Group	dry basis	Ratio	
	mg/kg	%	Restor
Petroleum EC Fraction			
AL_EC >5-6		0.00%	
AL_EC >6-8		0.00%	REMAR
AL_EC >8-10	38	0.35%	Enter s
AL_EC >10-12	280	2.61%	
AL_EC >12-16	2100	19.57%	
AL_EC >16-21	2500	23.29%	
AL_EC >21-34	3100	28.88%	
AR_EC >8-10	7.873	0.07%	
AR_EC >10-12	56.12	0.52%	
AR_EC >12-16	562.7	5.24%	
AR EC>16-21	1400	13.04%	
AR EC >21-34	669.747	6.24%	
Benzene	0.01	0.00%	
Toluene	0.035	0.00%	
Ethylbenzene	0.035	0.00%	
Total Xylenes	0.092	0.00%	
Naphthalene	0.88	0.01%	
1-Methyl Naphthalene	7.6	0.07%	
2-Methyl Naphthalene	9.7	0.09%	
n-Hexane		0.00%	
MTBE		0.00%	
Ethylene Dibromide (EDB)		0.00%	
1.2 Dichloroethane (EDC)		0.00%	
Benzo(a)anthracene	0.0205	0.00%	
Benzo(b)fluoranthene	0.0205	0.00%	
Benzo(k)fluoranthene	0.0205	0.00%	
Benzo(a)pyrene	0.0205	0.00%	
Chrysene	0.13	0.00%	
Dibenz(a b)anthracene	0.0205	0.00%	
Indeno(1.2.3-cd)pyrene	0.0205	0.00%	
Sum	10733 045	100.00%	
Sum	10755.045	100.0076	
3. Enter Site-Specific H	vdrogeological D	ata	
Total soil porosity:	0.43	Unitless	
Volumetric water content:	0.3	Unitless	
Volumetric air content:	0.13	Unitless	
Soil bulk density measured:	1.5	kg/L	
Fraction Organic Carbon:	0.001	Unitless	
Dilution Factor:	20	Unitiess	
4. Target TPH Ground W	ater Concentation	(if adjusted)	1
If you adjusted the target TPH g	round water	-, autorout	
concentration, enter adjusted	500	l ug/L	
, i i			

Notes for Data Entry	Set Default Hydrogeology
Clear All Soil Concen	tration Data Entry Cells
Restore All Soil Concentra	tion Data cleared previously

REMARK: Enter site-specific information here......

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750 Site Information

Date: 10/18/2010 Site Name: Woodworth Lakevew Facility Sample Name: A3-B2-P-100510-4.5 Measured Soil TPH Concentration, mg/kg: 10,733.045

1. Summary of Calculation Results

Exposure Dethyou	Mathad/Coal	Protective Soil	With Measu	red Soil Conc	Does Measured Soil
Exposure Fathway	Wiethod/Goal	TPH Conc, mg/kg	RISK @	HI @	Conc Pass or Fail?
Protection of Soil Direct	Method B	3,739	3.10E-07	2.87E+00	Fail
Contact: Human Health	Method C	46,269	7.68E-08	2.32E-01	Pass
Protection of Method B Ground	Potable GW: Human Health Protection	100% NAPL	2.80E-07	1.94E-01	Pass
Water Quality (Leaching)	Target TPH GW Conc. @ 500 ug/L	100% NAPL	NA	NA	Pass

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494). Warning! Check Residual Saturation (WAC340-747(10)).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

· · · · · ·	Method B: Unrestricted Land Use	Method C: Industrial Land Use		
Protective Soil Concentration, TPH mg/kg	3,738.83	46,268.50		
Most Stringent Criterion	HI =1	HI =1		

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI =1	YES	3.74E+03	1.08E-07	1.00E+00	YES	4.63E+04	3.31E-07	1.00E+00
Total Risk=1E-5	NO	3.47E+05	1.00E-05	9.27E+01	NO	1.40E+06	1.00E-05	3.02E+01
Risk of Benzene= 1E-6	NO	1.95E+07	5.62E-04	5.21E+03				
Risk of cPAHs mixture= 1E-6	NO	3.47E+04	1.00E-06	9.29E+00		NIA		
EDB	NA	NA	NA	NA		INA		
EDC	NA	NA	NĀ	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	NA		
Protective Ground Water Concentration, ug/L	NA		
Protective Soil Concentration, mg/kg	Soil-to-Ground Water is not a critical pathway!		

Ground Water Criteria	Protective	Protective Soil			
Ground water Criteria	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	Conc, mg/kg
HI=1	YES	5.06E+01	3.13E-07	1.96E-01	100% NAPL
Total Risk = $1E-5$	YES	5.06E+01	3.13E-07	1.96E-01	100% NAPL
Total Risk = 1E-6	YES	5.06E+01	3.13E-07	1.96E-01	100% NAPL
Risk of cPAHs mixture= 1E-5	YES	5.06E+01	3.13E-07	1.96E-01	100% NAPL
Benzene MCL = 5 ug/L	YES	5.06E+01	3.13E-07	1.96E-01	100% NAPL
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 73000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Cround Water Criteria	Protective	Protective Soil		
Ground water Criteria	TPH Conc, ug/L	Risk @	HI @	Conc, mg/kg
Target TPH GW Conc = 500 ug/L	5.06E+01	3.13E-07	1.96E-01	100% NAPL