



SoundEarth Strategies, Inc.  
2811 Fairview Avenue East, Suite 2000  
Seattle, Washington 98102

*Draft - Issued for Regulatory Review*

May 10, 2018

Mr. Dean Yasuda  
Washington State Department of Ecology  
Northwest Regional Office  
3190 160th Avenue Southeast  
Bellevue, Washington 98008-5452

**SUBJECT:      REQUEST FOR CONTAINED-IN DETERMINATION**  
**Plastic Sales and Service Site**  
**6870 Woodlawn Avenue Northeast**  
**Seattle, Washington 98115**  
**Project Number: 0651-002-02**

Dear Mr. Yasuda:

On behalf of The Lutheran Retirement Home of Greater Seattle d.b.a. The Hearthstone (Hearthstone), SoundEarth Strategies, Inc. (SoundEarth) has prepared this request for a Contained-In Determination (CID) from the Washington State Department of Ecology (Ecology) for the property at 6870 Woodlawn Avenue Northeast, Seattle, Washington (the Property; Figure 1). Hearthstone advanced 27 direct-push borings into the subsurface soil and collected soil samples from the Property to confirm the concentrations of tetrachloroethene (PCE) in soil previously treated using electrical resistance heating (ERH). Treatment of soil at the Property ended in January 5, 2017. The boring locations are shown on Figure 2. Boring logs are presented in Attachment A. A detailed description of the ERH system is presented in the Engineering Design Report prepared by SoundEarth and dated May 9, 2016.

Soil sampling was performed between April 17 and 19, 2019. The soil temperature at the time of sampling approximately ranged from 14 to 17 degrees Celsius. Soil samples were collected at sample depth interval ranging from 2.5 to 16 feet below ground surface (bgs) and analyzed for the chemicals of concern using U.S. Environmental Protection Agency (EPA) Method 8260C. Sampling and tests were performed in accordance with the Sampling and Analysis Plan prepared by SoundEarth and dated May 9, 2016. One soil sample (B2-5) was also analyzed for leachable chemicals of concern using Toxic Characteristic Leach Test Procedure (TCLP) EPA Method 1311/8260C.

Analytical results for soil samples show that all but one soil sample (B2-5) contained concentrations of PCE less than 14 milligrams per kilogram (mg/kg) and/or were reported below laboratory reporting limits. Excluding the PCE result for sample B2-5, concentrations of PCE in the soil samples ranged from 0.025 mg/kg to 7.4 mg/kg. The concentration PCE in sample B2-5 collected from boring B2 at 5 feet bgs was 27,000 mg/kg. Concentrations of PCE in soil samples collected from boring B2 at 10 feet and 14 feet bgs were 0.77 mg/kg and 0.97 mg/kg. The TCLP concentration of PCE in sample B2-5 was 45 milligrams per liter. Analytical results are presented in Table 1. Field screening results, measured with a handheld gas analyzer equipped with photoionization detector and taken throughout the soil column for each soil

boring, are presented in the boring logs (Attachment A). Laboratory analytical reports are presented in Attachment B.

Soil cuttings from the borings were placed in one 25-gallon drum and one 55-gallon drum. The drums are stored at the Property. Cuttings from soil borings B1 to B6 were placed in the 25-gallon drum and remainder of the soil cuttings from borings B6 to B27 were placed in the 55-gallon drum.

Based on these results, Hearthstone is requesting to excavate and dispose 10,000 tons of soil as F002 listed waste at the Subtitle D Landfills under a CID from Ecology. The area of the Property slated for mass removal of soil containing PCE is shown on Figure 2. The depth of the mass removal excavation will range from 14 to 16 feet bgs. This request excludes soil in an area of approximately 340 square feet proximal to boring B2 and to depth of 8 feet bgs (Figure 2). This excavated soil proximal to boring B2 (estimated at 150 tons) and the soil cuttings in the 25-gallon drum will be profiled for disposal at the Waste Management Subtitle C Landfill in Arlington, Oregon, or the Clean Harbors Subtitle C Landfill in Grantsville, Utah. The F002 listed waste under the CID will be disposed of at the Waste Management Facility in Wenatchee, Washington, or the Republic Roosevelt Landfill in Klickitat County, Washington.

If you have questions or need additional information, please contact the undersigned.

Respectfully,

SoundEarth Strategies, Inc.

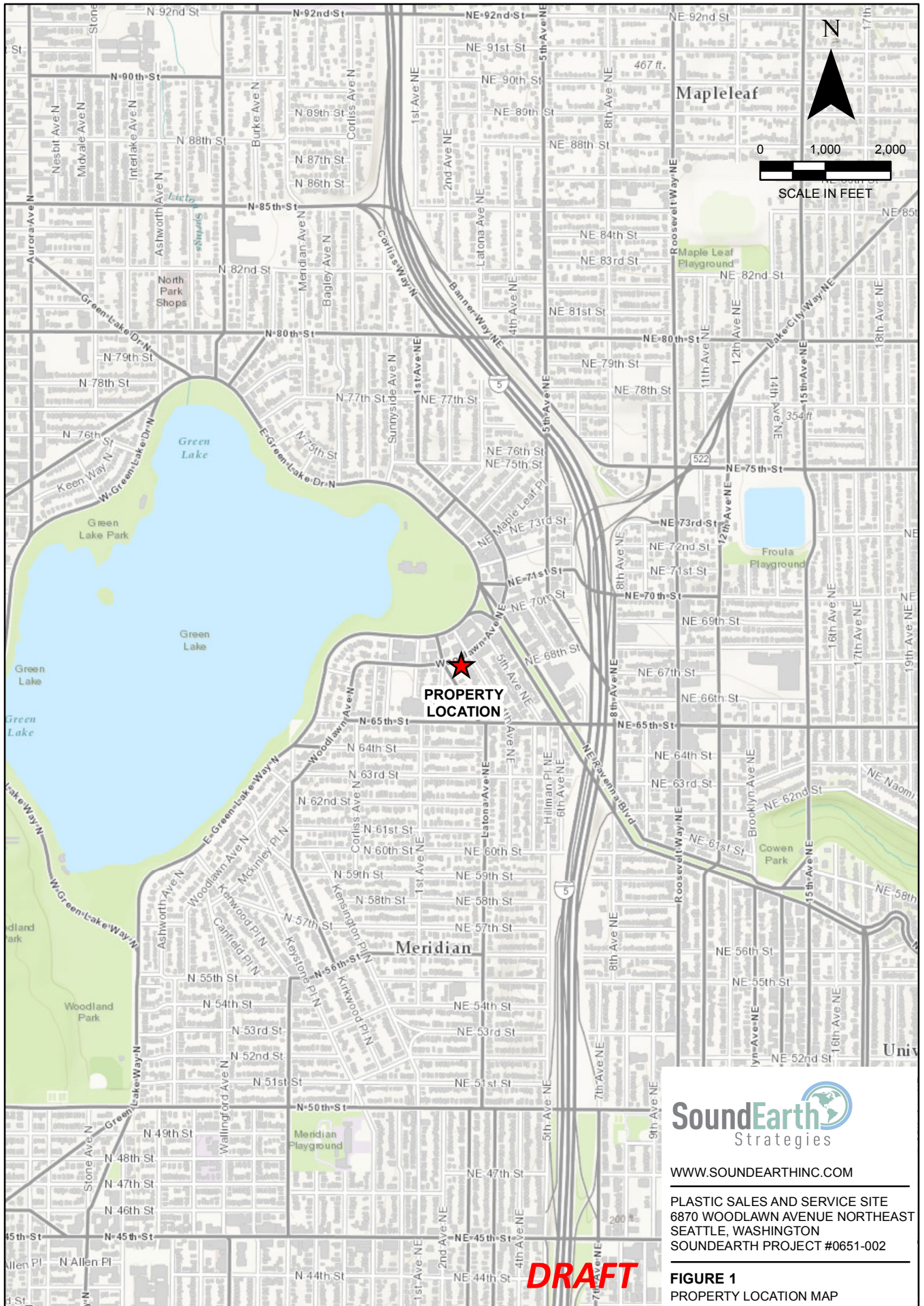
**DRAFT**

Tom Cammarata, LG, LHG

Attachments: Figure 1, Property Location Map  
Figure 2, Post-ERH Boring Locations and Area Planned for Mass Removal  
Table 1, Summary of Soil Analytical Results for Soil Borings  
A, Soil Boring Logs  
B, Laboratory Analytical Reports  
*OnSite Environmental, Inc. #1804-197*  
*OnSite Environmental, Inc. #1804-215*  
*OnSite Environmental, Inc. #1804-226*

TJC:rt

## **FIGURES**



**PROPERTY  
LOCATION**

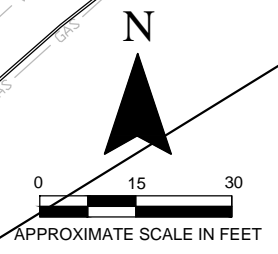


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PLASTIC SALES AND SERVICE SITE  
6870 WOODLAWN AVENUE NORTHEAST  
SEATTLE, WASHINGTON  
SOUNDEARTH PROJECT #0651-002

**FIGURE 1**  
PROPERTY LOCATION MAP

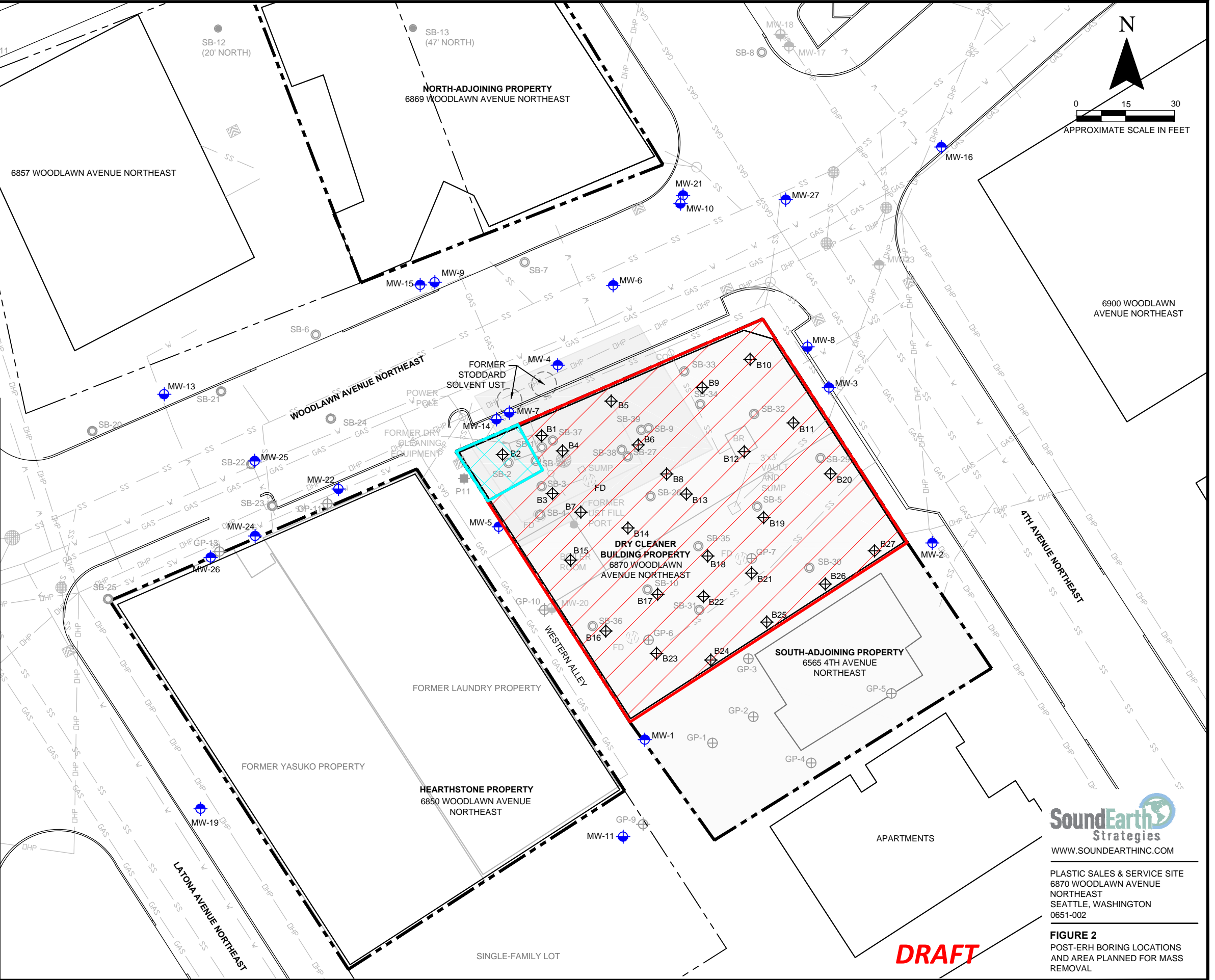
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**LEGEND**

- CATCH BASIN
- MANHOLE
- SHALLOW-ZONE MONITORING WELL
- DEEP-ZONE MONITORING WELL
- DECOMMISSIONED WELL
- DIRECT-PUSH BORING (GEOENGINEERS, 2002/2003)
- DIRECT-PUSH BORING (GEOENGINEERS, 2004)
- DIRECT-PUSH BORING (FARALLON, 2004)
- DIRECT-PUSH BORING (FARALLON, 2006/2007)
- DIRECT-PUSH BORING (FARALLON, 2010)
- DIRECT-PUSH BORING (SOUNDEARTH, 2008)
- DIRECT-PUSH BORING (SOUNDEARTH, 2009)
- POST-ERH BORING LOCATION
- STORMWATER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY LINE
- PARCEL BOUNDARY
- AREA REQUESTING CONTAINED-IN DETERMINATION
- AREA EXCLUDED FROM CONTAINED-IN DETERMINATION
- FLOOR DRAIN
- ERH ELECTRICAL RESISTANCE HEATING
- PCE TETRACHLORETHENE
- mg/kg MILLIGRAM PER KILOGRAM
- TMP TEMPERATURE MONITORING POINT
- UST UNDERGROUND STORAGE TANK

FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010



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PLASTIC SALES & SERVICE SITE  
 6870 WOODLAWN AVENUE  
 NORTHEAST  
 SEATTLE, WASHINGTON  
 0651-002

**FIGURE 2**  
 POST-ERH BORING LOCATIONS  
 AND AREA PLANNED FOR MASS  
 REMOVAL

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**TABLE**



**Table 1**  
**Summary of Soil Analytical Results for Soil Borings**  
**Plastic Sales and Service Site**  
**6870 Woodlawn Avenue Northeast**  
**Seattle, Washington**

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Well/Boring ID	Feet bgs	Sample ID	Date Sampled	Analytical Results <sup>(1)</sup> (mg/kg)					Analytical Results <sup>(2)</sup> (mg/L)		
				Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	Tetrachloroethene	Trichloroethene	Vinyl Chloride
B1	6	B1-6	04/17/18	0.17	<0.025	0.033	<0.025	<0.025	NA	NA	NA
	14	B1-14	04/17/18	0.40	<0.025	0.15	<0.025	<0.025	NA	NA	NA
B2	5	B2-5	04/17/18	27,000	28	1.8	<0.92	<0.92	45	<1	<1
	10	B2-10	04/17/18	0.77	<0.037	0.16	<0.037	<0.037	NA	NA	NA
	14	B2-14	04/17/18	0.97	<0.034	0.19	<0.034	<0.034	NA	NA	NA
B3	7	B3-7	04/17/18	0.78	<0.038	<0.038	<0.038	<0.038	NA	NA	NA
	15	B3-15	04/17/18	0.19	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B4	6	B4-6	04/17/18	<0.025	<0.025	0.033	<0.025	<0.025	NA	NA	NA
	9.5	B4-9.5	04/17/18	<0.025	<0.025	0.049	<0.025	<0.025	NA	NA	NA
	16	B4-16	04/17/18	<0.025	<0.025	0.059	<0.025	<0.025	NA	NA	NA
B5	6	B5-6	04/17/18	0.11	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B5-10	04/17/18	7.4	0.19	<0.050	<0.050	<0.050	NA	NA	NA
	14	B5-14	04/17/18	0.52	0.066	<0.025	<0.025	<0.025	NA	NA	NA
B6	2.5	B6-2.5	04/17/18	0.77	<0.046	<0.046	<0.046	<0.046	NA	NA	NA
	7.5	B6-7.5	04/17/18	0.90	0.096	<0.054	<0.054	<0.054	NA	NA	NA
	12	B6-12	04/17/18	0.17	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B7	6	B7-6	04/17/18	1.9	<0.050	<0.050	<0.050	<0.050	NA	NA	NA
	10	B7-10	04/17/18	3.5	<0.048	<0.048	<0.048	<0.048	NA	NA	NA
	14	B7-14	04/17/18	0.32	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B8	6	B8-6	04/17/18	0.55	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B8-10	04/17/18	0.23	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B8-14	04/17/18	0.11	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B9	6	B9-6	04/17/18	4.0	<0.053	<0.053	<0.053	<0.053	NA	NA	NA
	10	B9-10	04/17/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B9-14	04/17/18	0.063	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B10	6	B10-6	04/17/18	0.88	<0.060	<0.060	<0.060	<0.060	NA	NA	NA
	10	B10-10	04/17/18	2.2	<0.053	<0.053	<0.053	<0.053	NA	NA	NA
	14	B10-14	04/17/18	0.22	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B11	2.5	B11-2.5	04/18/18	0.59	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	6	B11-6	04/18/18	0.59	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B11-10	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B11-14	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Toxicity Characteristic (20x rule for soil)				14	10	NE	NE	4			
Toxicity Characteristic TCLP Regulatory Threshold (mg/L)									0.7	0.5	0.2



**Table 1**  
**Summary of Soil Analytical Results for Soil Borings**  
**Plastic Sales and Service Site**  
**6870 Woodlawn Avenue Northeast**  
**Seattle, Washington**

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Well/Boring ID	Feet bgs	Sample ID	Date Sampled	Analytical Results <sup>(1)</sup> (mg/kg)					Analytical Results <sup>(2)</sup> (mg/L)		
				Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	Tetrachloroethene	Trichloroethene	Vinyl Chloride
B12	6	B12-6	04/18/18	1.1	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B12-10	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B12-14	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B13	6	B13-6	04/18/18	2.1	<0.054	<0.054	<0.054	<0.054	NA	NA	NA
	10	B13-10	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B13-14	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B14	2.5	B14-2.5	04/18/18	2.1	<0.079	<0.079	<0.079	<0.079	NA	NA	NA
	6	B14-6	04/18/18	0.67	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B14-10	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B14-14	04/18/18	0.83	<0.043	0.097	<0.043	<0.043	NA	NA	NA
	16	B14-16	04/18/18	1.1	<0.044	<0.048	<0.044	<0.044	NA	NA	NA
B15	6	B15-6	04/18/18	0.84	0.075	<0.052	<0.052	<0.052	NA	NA	NA
	10	B15-10	04/18/18	<0.054	<0.054	1.1	<0.054	<0.054	NA	NA	NA
	14	B15-14	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B16	6	B16-6	04/18/18	0.90	0.46	0.18	<0.047	<0.047	NA	NA	NA
	10	B16-10	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B16-14	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B17	6	B17-6	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B17-10	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B17-14	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B18	6	B18-6	04/18/18	0.74	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B18-10	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B18-14	04/18/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B19	6	B19-6	04/19/18	0.24	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B19-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B19-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B20	6	B20-6	04/19/18	0.40	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B20-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B20-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B21	6	B21-6	04/19/18	0.15	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B21-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B21-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B22	2.5	B22-2.5	04/19/18	0.041	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	6	B22-6	04/19/18	0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B22-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B22-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
Toxicity Characteristic (20x rule for soil)				14	10	NE	NE	4			
Toxicity Characteristic TCLP Regulatory Threshold (mg/L)									0.7	0.5	0.2





**Table 1**  
**Summary of Soil Analytical Results for Soil Borings**  
**Plastic Sales and Service Site**  
**6870 Woodlawn Avenue Northeast**  
**Seattle, Washington**

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Well/Boring ID	Feet bgs	Sample ID	Date Sampled	Analytical Results <sup>(1)</sup> (mg/kg)					Analytical Results <sup>(2)</sup> (mg/L)		
				Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	Tetrachloroethene	Trichloroethene	Vinyl Chloride
B23	6	B23-6	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B23-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B23-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B24	6	B24-6	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B24-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B24-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B25	2.5	B25-2.5	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	6	B25-6	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B25-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B25-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B26	2.5	B26-2.5	04/19/18	<b>0.085</b>	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	6	B26-6	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B26-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B26-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	16	B26-16	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
B27	2.5	B27-2.5	04/19/18	<b>0.10</b>	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	6	B27-6	04/19/18	<0.041	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	10	B27-10	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	14	B27-14	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
	16	B27-16	04/19/18	<0.025	<0.025	<0.025	<0.025	<0.025	NA	NA	NA
<b>Toxicity Characteristic (20x rule for soil)</b>				<b>14</b>	<b>10</b>	<b>NE</b>	<b>NE</b>	<b>4</b>			
<b>Toxicity Characteristic TCLP Regulatory Threshold (mg/L)</b>									<b>0.7</b>	<b>0.5</b>	<b>0.2</b>

**NOTES:**

Samples analyzed by OnSite Environmental, Inc. in Redmond, Washington.

**Bold** denotes detected concentration equal or above laboratory limit.

**Red** denotes concentration above value exceed 14 mg/kg tetrachloroethene and/or TCLP exceeds 0.7 mg/L.

<sup>(1)</sup>Samples analyzed by EPA Method 8260C.

<sup>(2)</sup>Samples analyzed for TCLP by EPA Method 1131/8260C and is below Toxicity Characteristic.

< = not detected at a concentration exceeding the laboratory reporting limit

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

NA = not applicable

NE = not established

TCLP = Toxicity Characteristic Leaching Procedure

**ATTACHMENT A  
SOIL BORING LOGS**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 5 ft south of NW property corner  
**Well Location E/W:** 23 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B1**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 10 feet bgs  
**Water Depth After Completion:** -- feet bgs

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Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			80						
5				0.0	B1-6				
			100	0.0					
10				0.0					
			100	0.0	B1-14				
15				0.0					
			100	0.0					
								Boring terminated at 16 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 5 ft south of NW property corner  
**Well Location E/W:** 10 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B2**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 10 feet bgs  
**Water Depth After Completion:** -- feet bgs

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Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			75						
5				>15000	B2-6				
			95						
10				6.9	B2-10				
			100						
15				3.0	B2-14				
								Boring terminated at 15 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 15 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 22.5 ft south of NW property corner  
**Well Location E/W:** 17 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B3**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 10 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			75	1.4					
5				76.8					
				1.1	B3-7				
			100						
10				0.0					
			100						
15				0.1	B3-15				
			100						
								Boring terminated at 16 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 13 ft south of NW property corner  
**Well Location E/W:** 27 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B4**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 10 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			80	0.3					
5				1.1	B4-6				
			90						
10				0.2	B4-9.5				
			100						
15				1.8	B4-16				
			100						
								Boring terminated at 16 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 4 ft south of NW property corner  
**Well Location E/W:** 47 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B5**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 6 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			70						
5				0.0	B5-6				
			65						
10				0.0	B5-10				
			100						
15				0.0	B5-14				
								Boring terminated at 15 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 15 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 20 ft south of NW property corner  
**Well Location E/W:** 47 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B6**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 5 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
3			60	0.8	B6-2.5				
8			100	2.0	B6-7.5				
12			100	1.8	B6-12				
15								Boring terminated at 15 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 15 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**





**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 30 ft south of NW property corner  
**Well Location E/W:** 21 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B7**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 8 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
5			80	0.4	B7-6				
10			100	0.3	B7-10				
15			100	0.0	B7-14			Boring terminated at 15 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 15 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 30 ft south of NW property corner  
**Well Location E/W:** 49 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B8**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 8 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
5			50	0.3	B8-6				
10			100	0.1	B8-10				
15			100	0.2	B8-14				
								Boring terminated at 15 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 15 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**DRAFT**

**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 13 ft south of NW property corner  
**Well Location E/W:** 75 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B9**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 8 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			75	0.2					
5				1.6	B9-6				
			100	0.2	B9-10				
10				0.2	B9-14				
			100						
15				0.2					
								Boring terminated at 15 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 15 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**DRAFT**

**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/17/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 13 ft south of NW property corner  
**Well Location E/W:** 90 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/17/18

**BORING LOG | B10**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 8 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			80	0.0					
5				0.2	B10-6				
			100						
10				1.1	B10-10				
			100						
15				0.3	B10-14				
								Boring terminated at 15 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 15 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 32 ft south of NW property corner  
**Well Location E/W:** 92 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG** | **B11**

**Site Address:** 6870 woodlawn Ave NE  
 Seattle, Washington

**Water Depth At Time of Drilling:** 4 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			100	12	B11-2.5				
5				1.1	B11-6				
			100						
10				0.2	B11-10				
			100						
15				0.0	B11-14				
			100	0.1	B11-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Concrete  
**Well Location N/S:** 32 ft south of NW property corner  
**Well Location E/W:** 74 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG | B12**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 10 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			50	0.1	B12-2.5				
5				0.0	B12-6				
			100						
10				0.2	B12-10				
			100						
15				0.1	B12-14				
			100	0.1	B12-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and sealed with concrete.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 33 ft south of NW property corner  
**Well Location E/W:** 50 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG | B13**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 10 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			75	0.3	B13-2.5				
5				0.6	B13-6				
			100						
10				0.1	B13-10				
			100						
15				0.2	B13-14				
			100	0.1	B13-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 33 ft south of NW property corner  
**Well Location E/W:** 31 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG | B14**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 7 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			60	0.3	B14-2.5				
5				0.1	B14-6				
			100						
10				0.1	B14-10				
			100						
				0.8	B14-14				
15				0.4	B14-16				
			100						
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**





**DRAFT**

**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 33 ft south of NW property corner  
**Well Location E/W:** 10 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG | B15**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 7 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			20						
5				0.1	B15-6				
			60						
10				0.0	B15-10				
			75						
				0.0	B15-14				
15				0.0	B15-16				
			50						
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 67.5 ft south of NW property corner  
**Well Location E/W:** 7.5 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG | B16**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 7 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			70	0.0	B16-2.5				
5				0.0	B16-6				
			100						
10				0.0	B16-10				
			100						
15				0.0	B16-14				
			60	0.1	B16-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 67 ft south of NW property corner  
**Well Location E/W:** 28 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG | B17**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 7 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			65	0.3	B17-2.5				
5				0.1	B17-6				
			100						
10				0.0	B17-10				
			100						
15				0.0	B17-14				
			70	0.0	B17-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/18/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 66 ft south of NW property corner  
**Well Location E/W:** 46 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/18/18

**BORING LOG | B18**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 7 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			75	0.1	B18-2.5				
5				0.2	B18-6				
			100						
10				0.1	B18-10				
			100						
15				0.1	B18-14				
			100	0.0	B18-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 65 ft south of NW property corner  
**Well Location E/W:** 67.5 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B19**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 10 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			70	0.4	B19-2.5				
5				0.5	B19-6				
			100						
10				0.3	B19-10				
			100						
15				0.5	B19-14				
			80	0.1	B19-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 65 ft south of NW property corner  
**Well Location E/W:** 94 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B20**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 5 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			60	0.2	B20-2.5				
5				0.2	B20-6				
			100						
10				0.2	B20-10				
			100						
15				0.2	B20-14				
			80	0.2	B20-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 69 ft south of NW property corner  
**Well Location E/W:** 38 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B22**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 5 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			50	0.2	B22-2.5				
5				0.4	B22-6				
			100						
10				0.2	B22-10				
			100						
15				0.4	B22-14				
			90	0.3	B22-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 69 ft south of NW property corner  
**Well Location E/W:** 38 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B22**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 5 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			50	0.2	B22-2.5				
5				0.4	B22-6				
			100						
10				0.2	B22-10				
			100						
				0.4	B22-14				
15				0.3	B22-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**





**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 74 ft south of NW property corner  
**Well Location E/W:** 16.5 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG** | **B23**

**Site Address:** 6870 woodlawn Ave NE  
 Seattle, Washington

**DRAFT**

**Water Depth At Time of Drilling:** 6 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			65	0.2	B23-2.5				
5				0.2	B23-6				
			100						
10				0.1	B23-10				
			100						
15				0.0	B23-14				
			85	0.1	B23-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 90 ft south of NW property corner  
**Well Location E/W:** 30 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B24**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 6 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			75	0.0	B24-2.5				
5				0.0	B24-6				
			100						
10				0.0	B24-10				
			100						
15				0.0	B24-14				
			80	0.1	B24-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 90 ft south of NW property corner  
**Well Location E/W:** 50 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B25**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 6 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			75	0.2	B25-2.5				
5				0.4	B25-6				
			100						
10				0.2	B25-10				
			100						
15				0.1	B25-14				
			100	0.5	B25-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 90 ft south of NW property corner  
**Well Location E/W:** 74 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B26**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 6 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			70	0.8	B26-2.5				
5				0.5	B26-6				
			100						
10				0.3	B26-10				
			100						
15				0.1	B26-14				
			100	0.9	B26-16				
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**



**Project:** Hearthstone  
**Project Number:** 0651-002  
**Logged by:** SNW  
**Date Started:** 4/19/18  
**Surface Conditions:** Gravel  
**Well Location N/S:** 90 ft south of NW property corner  
**Well Location E/W:** 90 ft east of NW property corner  
**Reviewed by:** TSB/TJC  
**Date Completed:** 4/19/18

**BORING LOG | B27**

**Site Address:** 6870 woodlawn Ave NE  
Seattle, Washington

**Water Depth At Time of Drilling:** 6 feet bgs  
**Water Depth After Completion:** -- feet bgs

**DRAFT**

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								No lithology description recorded	
			60	0.4	B27-2.5				
5				0.3	B27-6				
			100						
10				0.5	B27-10				
			100						
				0.3	B27-14				
15				0.4	B27-16				
			100						
								Boring terminated at 16 ft bgs. Backfilled with bentonite and gravel.	

**Drilling Co./Driller:** Holocene/ Mitch  
**Drilling Equipment:** Geoprobe 7822DT  
**Sampler Type:** 2.25in/5ft macro and liner  
**Hammer Type/Weight:** Not Applicable lbs  
**Total Boring Depth:** 16 feet bgs  
**Total Well Depth:** Not Applicable feet bgs  
**State Well ID No.:** Not Applicable

**Well/Auger Diameter:** Not Applicable inches  
**Well Screened Interval:** Not Applicable feet bgs  
**Screen Slot Size:** Not Applicable inches  
**Filter Pack Used:** Not Applicable  
**Surface Seal:** Concrete  
**Annular Seal:** Bentonite  
**Monument Type:** Not Applicable

**Notes/Comments:**

**ATTACHMENT B  
LABORATORY ANALYTICAL REPORTS**

***OnSite Environmental, Inc. #1804-197***



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

May 1, 2018

Tom Cammarata  
Sound Earth Strategies  
2811 Fairview Avenue East, Suite 2000  
Seattle, WA 98102

Re: Analytical Data for Project 0651-002  
Laboratory Reference No. 1804-197

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 18, 2018.

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

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

Sincerely,

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

David Baumeister  
Project Manager

Enclosures



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

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



Date of Report: May 1, 2018  
Samples Submitted: April 18, 2018  
Laboratory Reference: 1804-197  
Project: 0651-002

### Case Narrative

Samples were collected on April 17, 2018 and received by the laboratory on April 18, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

#### Volatiles EPA 8260C Analysis

The client requested PQL of 0.025ppm is not achievable for some compounds for samples B2-5, B2-10, B2-14, B3-7, B5-10, B6-2.5, B6-7.5, B7-6, B7-10, B9-6, B10-6 and B10-10 due to the necessary dilution of these samples.

All four internal standards did not meet acceptance criteria for low-level analysis for sample B5-14. Leaks in the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. The second VOA vial provided for low-level analysis was damaged. Therefore, the sample was extracted from a 4-ounce jar for low-level analysis. Some loss of volatiles may have occurred. The reported results for Trichloroethene and Tetrachloroethene are not affected.

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



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B1-6</b>					
Laboratory ID:	04-197-01					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	0.033	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.17	0.047	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B1-14</b>					
Laboratory ID:	04-197-02					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	0.15	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.40	0.039	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B2-5</b>					
Laboratory ID:	04-197-03					
Vinyl Chloride	ND	0.92	EPA 8260C	4-18-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.92	EPA 8260C	4-18-18	4-19-18	
(cis) 1,2-Dichloroethene	1.8	0.92	EPA 8260C	4-18-18	4-19-18	
Trichloroethene	28	0.92	EPA 8260C	4-18-18	4-19-18	
Tetrachloroethene	27000	180	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B2-10</b>					
Laboratory ID:	04-197-04					
Vinyl Chloride	ND	0.037	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.037	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	0.16	0.037	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.037	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	0.77	0.037	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B2-14</b>					
Laboratory ID:	04-197-05					
Vinyl Chloride	ND	0.034	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.034	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	0.19	0.034	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.034	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	0.97	0.034	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B3-7</b>					
Laboratory ID:	04-197-06					
Vinyl Chloride	ND	0.038	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.038	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.038	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.038	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	0.78	0.038	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B3-15</b>					
Laboratory ID:	04-197-07					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.19	0.035	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B4-6</b>					
Laboratory ID:	04-197-08					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	0.033	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B4-9.5</b>					
Laboratory ID:	04-197-09					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	0.049	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B4-16</b>					
Laboratory ID:	04-197-10					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	0.059	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B5-6</b>					
Laboratory ID:	04-197-11					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.11	0.054	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B5-10</b>					
Laboratory ID:	04-197-12					
Vinyl Chloride	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	0.19	0.050	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	7.4	0.050	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B5-14</b>					
Laboratory ID:	04-197-13					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	0.066	0.053	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	0.52	0.053	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B6-2.5</b>					
Laboratory ID:	04-197-14					
Vinyl Chloride	ND	0.046	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.046	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.046	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.046	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	0.77	0.046	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B6-7.5</b>					
Laboratory ID:	04-197-15					
Vinyl Chloride	ND	0.054	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.054	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.054	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	0.096	0.054	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	0.90	0.054	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B6-12</b>					
Laboratory ID:	04-197-16					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.17	0.053	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B7-6</b>					
Laboratory ID:	04-197-17					
Vinyl Chloride	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	1.9	0.050	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B7-10</b>					
Laboratory ID:	04-197-18					
Vinyl Chloride	ND	0.048	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.048	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.048	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.048	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	3.5	0.048	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B7-14</b>					
Laboratory ID:	04-197-19					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	0.32	0.050	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B8-6</b>					
Laboratory ID:	04-197-20					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.55	0.054	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B8-10</b>					
Laboratory ID:	04-197-21					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	0.23	0.056	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B8-14</b>					
Laboratory ID:	04-197-22					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.11	0.050	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B9-6</b>					
Laboratory ID:	04-197-23					
Vinyl Chloride	ND	0.053	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.053	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.053	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.053	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	4.0	0.053	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B9-10</b>					
Laboratory ID:	04-197-24					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B9-14</b>					
Laboratory ID:	04-197-25					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.063	0.060	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>78-130</i>				



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 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B10-6</b>					
Laboratory ID:	04-197-26					
Vinyl Chloride	ND	0.060	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.060	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.060	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.060	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	0.88	0.060	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
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 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B10-10</b>					
Laboratory ID:	04-197-27					
Vinyl Chloride	ND	0.053	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.053	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.053	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.053	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	2.2	0.053	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B10-14</b>					
Laboratory ID:	04-197-28					
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	0.22	0.025	EPA 8260C	4-19-18	4-19-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Laboratory ID: MB0418S1</b>						
Vinyl Chloride	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				
<b>Laboratory ID: MB0418S2</b>						
Vinyl Chloride	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
Trichloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
Tetrachloroethene	ND	0.050	EPA 8260C	4-18-18	4-18-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
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 Laboratory Reference: 1804-197  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID: MB0419S2						
Vinyl Chloride	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Trichloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-19-18	4-19-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	75-131				
<i>Toluene-d8</i>	96	83-130				
<i>4-Bromofluorobenzene</i>	95	78-130				
Laboratory ID: MB0423S2						
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	75-131				
<i>Toluene-d8</i>	98	83-130				
<i>4-Bromofluorobenzene</i>	92	78-130				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0418S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0446</b>	<b>0.0378</b>	0.0500	0.0500	89	76	58-126	17	20	
Benzene	<b>0.0460</b>	<b>0.0401</b>	0.0500	0.0500	92	80	72-122	14	19	
Trichloroethene	<b>0.0453</b>	<b>0.0405</b>	0.0500	0.0500	91	81	75-120	11	20	
Toluene	<b>0.0453</b>	<b>0.0401</b>	0.0500	0.0500	91	80	78-123	12	19	
Chlorobenzene	<b>0.0431</b>	<b>0.0376</b>	0.0500	0.0500	86	75	75-120	14	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					101	103	75-131			
<i>Toluene-d8</i>					102	104	83-130			
<i>4-Bromofluorobenzene</i>					99	100	78-130			
Laboratory ID:	SB0418S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0357</b>	<b>0.0433</b>	0.0500	0.0500	71	87	58-126	19	20	
Benzene	<b>0.0419</b>	<b>0.0484</b>	0.0500	0.0500	84	97	72-122	14	19	
Trichloroethene	<b>0.0412</b>	<b>0.0489</b>	0.0500	0.0500	82	98	75-120	17	20	
Toluene	<b>0.0418</b>	<b>0.0489</b>	0.0500	0.0500	84	98	78-123	16	19	
Chlorobenzene	<b>0.0410</b>	<b>0.0475</b>	0.0500	0.0500	82	95	75-120	15	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					104	99	75-131			
<i>Toluene-d8</i>					108	97	83-130			
<i>4-Bromofluorobenzene</i>					108	100	78-130			





Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:		SB0419S2								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0407</b>	<b>0.0465</b>	0.0500	0.0500	81	93	58-126	13	20	
Benzene	<b>0.0432</b>	<b>0.0478</b>	0.0500	0.0500	86	96	72-122	10	19	
Trichloroethene	<b>0.0433</b>	<b>0.0490</b>	0.0500	0.0500	87	98	75-120	12	20	
Toluene	<b>0.0438</b>	<b>0.0476</b>	0.0500	0.0500	88	95	78-123	8	19	
Chlorobenzene	<b>0.0390</b>	<b>0.0435</b>	0.0500	0.0500	78	87	75-120	11	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					104	99	75-131			
<i>Toluene-d8</i>					104	102	83-130			
<i>4-Bromofluorobenzene</i>					98	99	78-130			
Laboratory ID:		SB0423S2								
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0452</b>	<b>0.0433</b>	0.0500	0.0500	90	87	58-126	4	20	
Benzene	<b>0.0487</b>	<b>0.0472</b>	0.0500	0.0500	97	94	72-122	3	19	
Trichloroethene	<b>0.0510</b>	<b>0.0495</b>	0.0500	0.0500	102	99	75-120	3	20	
Toluene	<b>0.0485</b>	<b>0.0484</b>	0.0500	0.0500	97	97	78-123	0	19	
Chlorobenzene	<b>0.0472</b>	<b>0.0449</b>	0.0500	0.0500	94	90	75-120	5	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					103	102	75-131			
<i>Toluene-d8</i>					105	104	83-130			
<i>4-Bromofluorobenzene</i>					100	102	78-130			



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

**TCLP VOLATILES**  
**EPA 1311/8260C**

Matrix: TCLP Extract  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>B2-5</b>					
Laboratory ID:	04-197-03					
Vinyl Chloride	ND	1000	EPA 8260C	4-30-18	5-1-18	
Trichloroethene	ND	1000	EPA 8260C	4-30-18	5-1-18	
Tetrachloroethene	45000	1000	EPA 8260C	4-30-18	5-1-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>78-125</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

**TCLP VOLATILES  
 EPA 1311/8260C  
 METHOD BLANK QUALITY CONTROL**

Matrix: TCLP Extract  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0430T1					
Vinyl Chloride	ND	2.0	EPA 8260C	4-30-18	5-1-18	
Trichloroethene	ND	2.0	EPA 8260C	4-30-18	5-1-18	
Tetrachloroethene	ND	2.0	EPA 8260C	4-30-18	5-1-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	95	78-125				



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

**TCLP VOLATILES  
 EPA 1311/8260C  
 SB/SBD QUALITY CONTROL**

Matrix: TCLP Extract  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0501T1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.56	8.51	10.0	10.0	86	85	63-126	1	21	
Benzene	9.40	9.33	10.0	10.0	94	93	78-122	1	19	
Trichloroethene	8.82	8.95	10.0	10.0	88	90	63-120	1	20	
Toluene	9.34	9.49	10.0	10.0	93	95	79-124	2	19	
Chlorobenzene	8.29	8.45	10.0	10.0	83	85	78-120	2	19	
<i>Surrogate:</i>										
Dibromofluoromethane					103	100	75-127			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					99	99	78-125			



Date of Report: May 1, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-197  
 Project: 0651-002

### % MOISTURE

Date Analyzed: 4-19&23-18

Client ID	Lab ID	% Moisture
B1-6	04-197-01	17
B1-14	04-197-02	9
B2-5	04-197-03	19
B2-10	04-197-04	12
B2-14	04-197-05	8
B3-7	04-197-06	15
B3-15	04-197-07	9
B4-6	04-197-08	20
B4-9.5	04-197-09	12
B4-16	04-197-10	10
B5-6	04-197-11	18
B5-10	04-197-12	16
B5-14	04-197-13	16
B6-2.5	04-197-14	13
B6-7.5	04-197-15	16
B6-12	04-197-16	15
B7-6	04-197-17	15
B7-10	04-197-18	15
B7-14	04-197-19	7
B8-6	04-197-20	18
B8-10	04-197-21	13
B8-14	04-197-22	16
B9-6	04-197-23	16
B9-10	04-197-24	15
B9-14	04-197-25	19
B10-6	04-197-26	15
B10-10	04-197-27	12



Date of Report: May 1, 2018  
Samples Submitted: April 18, 2018  
Laboratory Reference: 1804-197  
Project: 0651-002

### % MOISTURE

Date Analyzed: 4-19&23-18

Client ID	Lab ID	% Moisture
B10-14	04-197-28	14





### Data Qualifiers and Abbreviations

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



Company: Sound Earth Strategies  
Project Number: 0651-002  
Project Name: Hearth Stone  
Project Manager: Tom Cammarata  
Sampled by: SNwa GRM

**Turnaround Request (in working days)**  
(Check One)

Same Day     1 Day  
 2 Days     3 Days  
 Standard (7 Days)  
(TPH analysis 5 Days)  
 \_\_\_\_\_ (other)

Laboratory Number: **04-197**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	B1-6	4/17/18	0845	S	4
2	B1-14		0853	S	4
3	B2-5		0930	S	4
4	B2-10		0935	S	4
5	B2-14		0945	S	4
6	B3-7		1010	S	4
7	B3-15		1020	S	4
8	B4-6		1050	S	4
9	B4-9.5		1055	S	4
10	B4-16		1105	S	4

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C <i>*PCE + TCE cis/trans-PCE-VC</i>	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TCLP PCE, TCE, VC	% Moisture
4					Y														6
4					Y														6
4					X													(X)	6
4					X														X
4					X														X
4					X														6
4					X														6
4					X														6
4					X														X

Signature	Company	Date	Time	Comments/Special Instructions
<u>Sandra Wilts</u>	<u>SES</u>	<u>4/17/18</u>	<u>1550</u>	<p>*PCE Reporting Limit = 0.025 mg/kg + Preliminary Results &gt; 14 mg/kg not CLP  * - PCE, TCE, cis/trans-PCE, VC (X) Added 4/25/18 - DB (STA)</p>
<u>Van Spdy</u>	<u>Spdy</u>	<u>4/17/18</u>	<u>1550</u>	
<u>Van Spdy</u>	<u>Spdy</u>	<u>4/17/18</u>	<u>1630</u>	
<u>Walter L. Green</u>	<u>OSE</u>	<u>4/17/18</u>	<u>1630</u>	
Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>				
Reviewed/Date				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>





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

# Chain of Custody

Company: Sound Earth Strategies  
Project Number: 0651-002  
Project Name: Hearthstone  
Project Manager: Tom Cammarata  
Sampled by: SNW & GRM

**Turnaround Request (in working days)**

(Check One)

Same Day       1 Day

2 Days           3 Days

Standard (7 Days)  
(TPH analysis 5 Days)

\_\_\_\_\_ (other)

Laboratory Number: **04-197**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-GX	NWTPH-DX (□ Acid / SG Clean-up)	Volatiles 8260C <u>*PCE*</u>	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
11	B5-6	4/17/18	1215	S	4					X													X
12	B5-10		1220	S	4					X													X
13	B5-14		1225	S	4					X													X
14	B6-2.5		1235	S	4					X													X
15	B6-7.5		1240	S	4					X													X
16	B6-12		1245	S	4					X													X
17	B7-6		1320	S	4					X													X
18	B7-10		1322	S	4					X													X
19	B7-14		1330	S	4					X													X
20	B8-6		1400	S	4					X													X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>[Signature]</u>	<u>SES</u>	<u>4/17/18</u>	<u>1550</u>	*PCE Reporting Limit = 0.025 mg/kg † Any preliminary Results > 14 mg/kg run TCLP
Received	<u>[Signature]</u>	<u>Spdy</u>	<u>4/17/18</u>	<u>1550</u>	
Relinquished	<u>[Signature]</u>	<u>Spdy</u>	<u>4/17/18</u>	<u>1630</u>	
Received	<u>[Signature]</u>	<u>OSE</u>	<u>4/17/18</u>	<u>1630</u>	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

# Chain of Custody

 Company: Sand Earth Strategies  
 Project Number: 0651-002  
 Project Name: Hearthstone  
 Project Manager: Tom Cammarata  
 Sampled by: SNW & GRM

Turnaround Request (in working days)	
(Check One)	
<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day
<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days
<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)	
<input type="checkbox"/> _____ (other)	

 Laboratory Number: **04-197**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticicides 8081B	Organophosphorus Pesticicides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
21	B8-10	4/17/18	1410	S	4					X														X
22	B8-14		1412							X														X
23	B9-6		1430							X														X
24	B9-10		1433							X														X
25	B9-14		1437							X														X
26	B10-6		1445							X														X
27	B10-10		1455							X														X
28	B10-14		1500							X														X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Sarah Witt</u>	<u>SES</u>	<u>4/17/18</u>	<u>1550</u>	* PCE Reporting Limit = 0.025 † Preliminary Result > 14 mg/kg; run TCLP
Received	<u>Van</u>	<u>spdy</u>	<u>4/17/18</u>	<u>1550</u>	
Relinquished	<u>Van</u>	<u>spdy</u>	<u>4/17/18</u>	<u>1630</u>	
Received	<u>Walter Lee</u>	<u>OSE</u>	<u>4/17/18</u>	<u>1630</u>	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

# Sample/Cooler Receipt and Acceptance Checklist

Client: SES  
 Client Project Name/Number: 0651-002  
 OnSite Project Number: 04-197

Initiated by: KL  
 Date Initiated: 4/17/18

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	Yes	<input checked="" type="radio"/> No	Temperature: <u>9</u>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	Client	<input checked="" type="radio"/> Courier	UPS/FedEx	OSE Pickup Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	<input checked="" type="radio"/> Yes	No	N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	<u>1</u>	N/A

### Explain any discrepancies:


- 1 - Discuss issue in Case Narrative
- 2 - Process Sample As-is
- 3 - Client contacted to discuss problem
- 4 - Sample cannot be analyzed or client does not wish to proceed

***OnSite Environmental, Inc. #1804-215***



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

April 27, 2018

Tom Cammarata  
Sound Earth Strategies  
2811 Fairview Avenue East, Suite 2000  
Seattle, WA 98102

Re: Analytical Data for Project 0651-002  
Laboratory Reference No. 1804-215

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 18, 2018.

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

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

Sincerely,

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

David Baumeister  
Project Manager

Enclosures



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

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

Date of Report: April 27, 2018  
Samples Submitted: April 18, 2018  
Laboratory Reference: 1804-215  
Project: 0651-002

### Case Narrative

Samples were collected on April 18, 2018 and received by the laboratory on April 18, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

#### Volatiles EPA 8260C Analysis

The client-requested PQL of 0.025 ppm is not achievable for some compounds for samples B13-6, B14-2.5, B14-14, B14-16, B15-6, B15-10 and B16-6 due to the necessary dilution of these samples.

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



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B11-2.5</b>					
Laboratory ID:	04-215-01					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	0.59	0.090	EPA 8260C	4-20-18	4-20-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B11-6</b>					
Laboratory ID:	04-215-02					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	0.59	0.052	EPA 8260C	4-20-18	4-20-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				





Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B11-10</b>					
Laboratory ID:	04-215-03					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B11-14</b>					
Laboratory ID:	04-215-04					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B12-6</b>					
Laboratory ID:	04-215-07					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	1.1	0.051	EPA 8260C	4-20-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B12-10</b>					
Laboratory ID:	04-215-08					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B12-14</b>					
Laboratory ID:	04-215-09					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B13-6</b>					
Laboratory ID:	04-215-12					
Vinyl Chloride	ND	0.054	EPA 8260C	4-20-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.054	EPA 8260C	4-20-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.054	EPA 8260C	4-20-18	4-23-18	
Trichloroethene	ND	0.054	EPA 8260C	4-20-18	4-23-18	
Tetrachloroethene	2.1	0.054	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B13-10</b>					
Laboratory ID:	04-215-13					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B13-14</b>					
Laboratory ID:	04-215-14					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-130</i>				





Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B14-2.5</b>					
Laboratory ID:	04-215-16					
Vinyl Chloride	ND	0.079	EPA 8260C	4-20-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.079	EPA 8260C	4-20-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.079	EPA 8260C	4-20-18	4-23-18	
Trichloroethene	ND	0.079	EPA 8260C	4-20-18	4-23-18	
Tetrachloroethene	2.1	0.079	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B14-6</b>					
Laboratory ID:	04-215-17					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	0.67	0.062	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B14-10</b>					
Laboratory ID:	04-215-18					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B14-14</b>					
Laboratory ID:	04-215-19					
Vinyl Chloride	ND	0.043	EPA 8260C	4-20-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.043	EPA 8260C	4-20-18	4-23-18	
(cis) 1,2-Dichloroethene	0.097	0.043	EPA 8260C	4-20-18	4-23-18	
Trichloroethene	ND	0.043	EPA 8260C	4-20-18	4-23-18	
Tetrachloroethene	0.83	0.043	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B14-16</b>					
Laboratory ID:	04-215-20					
Vinyl Chloride	ND	0.044	EPA 8260C	4-20-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.044	EPA 8260C	4-20-18	4-23-18	
(cis) 1,2-Dichloroethene	0.048	0.044	EPA 8260C	4-20-18	4-23-18	
Trichloroethene	ND	0.044	EPA 8260C	4-20-18	4-23-18	
Tetrachloroethene	1.1	0.044	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B15-6</b>					
Laboratory ID:	04-215-21					
Vinyl Chloride	ND	0.052	EPA 8260C	4-20-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.052	EPA 8260C	4-20-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.052	EPA 8260C	4-20-18	4-23-18	
Trichloroethene	0.075	0.052	EPA 8260C	4-20-18	4-23-18	
Tetrachloroethene	0.84	0.052	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B15-10</b>					
Laboratory ID:	04-215-22					
Vinyl Chloride	ND	0.054	EPA 8260C	4-20-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.054	EPA 8260C	4-20-18	4-23-18	
(cis) 1,2-Dichloroethene	1.1	0.054	EPA 8260C	4-20-18	4-23-18	
Trichloroethene	ND	0.054	EPA 8260C	4-20-18	4-23-18	
Tetrachloroethene	ND	0.054	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B15-14</b>					
Laboratory ID:	04-215-23					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				





Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B16-6</b>					
Laboratory ID:	04-215-26					
Vinyl Chloride	ND	0.047	EPA 8260C	4-20-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.047	EPA 8260C	4-20-18	4-23-18	
(cis) 1,2-Dichloroethene	0.18	0.047	EPA 8260C	4-20-18	4-23-18	
Trichloroethene	0.46	0.047	EPA 8260C	4-20-18	4-23-18	
Tetrachloroethene	0.90	0.047	EPA 8260C	4-20-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B16-10</b>					
Laboratory ID:	04-215-27					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B16-14</b>					
Laboratory ID:	04-215-28					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B17-6</b>					
Laboratory ID:	04-215-31					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B17-10</b>					
Laboratory ID:	04-215-32					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B17-14</b>					
Laboratory ID:	04-215-33					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B18-6</b>					
Laboratory ID:	04-215-36					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	0.74	0.057	EPA 8260C	4-20-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B18-10</b>					
Laboratory ID:	04-215-37					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>78-130</i>				





Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B18-14</b>					
Laboratory ID:	04-215-38					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0420S3					
Vinyl Chloride	ND	0.050	EPA 8260C	4-20-18	4-20-18	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-20-18	4-20-18	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260C	4-20-18	4-20-18	
Trichloroethene	ND	0.050	EPA 8260C	4-20-18	4-20-18	
Tetrachloroethene	ND	0.050	EPA 8260C	4-20-18	4-20-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0423S1					
Vinyl Chloride	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Trichloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-23-18	4-23-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0424S3					
Vinyl Chloride	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Trichloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-24-18	4-24-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0425S1					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>122</i>	<i>78-130</i>				



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0420S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0384</b>	<b>0.0373</b>	0.0500	0.0500	77	75	58-126	3	20	
Benzene	<b>0.0461</b>	<b>0.0461</b>	0.0500	0.0500	92	92	72-122	0	19	
Trichloroethene	<b>0.0468</b>	<b>0.0484</b>	0.0500	0.0500	94	97	75-120	3	20	
Toluene	<b>0.0455</b>	<b>0.0469</b>	0.0500	0.0500	91	94	78-123	3	19	
Chlorobenzene	<b>0.0442</b>	<b>0.0443</b>	0.0500	0.0500	88	89	75-120	0	18	
<i>Surrogate:</i>										
Dibromofluoromethane					105	95	75-131			
Toluene-d8					104	96	83-130			
4-Bromofluorobenzene					108	99	78-130			



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0423S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0365</b>	<b>0.0355</b>	0.0500	0.0500	73	71	58-126	3	20	
Benzene	<b>0.0480</b>	<b>0.0447</b>	0.0500	0.0500	96	89	72-122	7	19	
Trichloroethene	<b>0.0488</b>	<b>0.0464</b>	0.0500	0.0500	98	93	75-120	5	20	
Toluene	<b>0.0480</b>	<b>0.0452</b>	0.0500	0.0500	96	90	78-123	6	19	
Chlorobenzene	<b>0.0450</b>	<b>0.0420</b>	0.0500	0.0500	90	84	75-120	7	18	
<i>Surrogate:</i>										
Dibromofluoromethane					109	93	75-131			
Toluene-d8					112	93	83-130			
4-Bromofluorobenzene					115	97	78-130			



Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0424S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0337</b>	<b>0.0331</b>	0.0500	0.0500	67	66	58-126	2	20	
Benzene	<b>0.0452</b>	<b>0.0448</b>	0.0500	0.0500	90	90	72-122	1	19	
Trichloroethene	<b>0.0463</b>	<b>0.0464</b>	0.0500	0.0500	93	93	75-120	0	20	
Toluene	<b>0.0444</b>	<b>0.0445</b>	0.0500	0.0500	89	89	78-123	0	19	
Chlorobenzene	<b>0.0420</b>	<b>0.0428</b>	0.0500	0.0500	84	86	75-120	2	18	
<i>Surrogate:</i>										
Dibromofluoromethane					97	93	75-131			
Toluene-d8					98	94	83-130			
4-Bromofluorobenzene					102	97	78-130			





Date of Report: April 27, 2018  
 Samples Submitted: April 18, 2018  
 Laboratory Reference: 1804-215  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0425S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0428</b>	<b>0.0416</b>	0.0500	0.0500	86	83	58-126	3	20	
Benzene	<b>0.0528</b>	<b>0.0518</b>	0.0500	0.0500	106	104	72-122	2	19	
Trichloroethene	<b>0.0512</b>	<b>0.0527</b>	0.0500	0.0500	102	105	75-120	3	20	
Toluene	<b>0.0521</b>	<b>0.0486</b>	0.0500	0.0500	104	97	78-123	7	19	
Chlorobenzene	<b>0.0490</b>	<b>0.0475</b>	0.0500	0.0500	98	95	75-120	3	18	
<i>Surrogate:</i>										
Dibromofluoromethane					99	93	75-131			
Toluene-d8					97	91	83-130			
4-Bromofluorobenzene					102	96	78-130			



Date of Report: April 27, 2018  
Samples Submitted: April 18, 2018  
Laboratory Reference: 1804-215  
Project: 0651-002

### % MOISTURE

Date Analyzed: 4-24-18

Client ID	Lab ID	% Moisture
B11-2.5	04-215-01	37
B11-6	04-215-02	18
B11-10	04-215-03	15
B11-14	04-215-04	18
B12-6	04-215-07	12
B12-10	04-215-08	12
B12-14	04-215-09	16
B13-6	04-215-12	19
B13-10	04-215-13	16
B13-14	04-215-14	15
B14-6	04-215-17	18
B14-10	04-215-18	14
B14-14	04-215-19	9
B14-16	04-215-20	9
B15-6	04-215-21	15
B15-10	04-215-22	18
B15-14	04-215-23	10
B16-6	04-215-26	14
B16-10	04-215-27	14
B16-14	04-215-28	10
B17-6	04-215-31	16
B17-10	04-215-32	13
B17-14	04-215-33	11
B18-6	04-215-36	19
B18-10	04-215-37	13
B18-14	04-215-38	14





### Data Qualifiers and Abbreviations

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





# Chain of Custody

 Company: Sand Earth Strategies  
 Project Number: 0651-002  
 Project Name: Heathstone  
 Project Manager: Tom Cammarata  
 Sampled by: SNW eGRM

Turnaround Request (in working days)	
(Check One)	
<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day
<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days
<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)	
<input type="checkbox"/> _____ (other)	

 Laboratory Number: **04-215**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	B13-2.5	4/18/18	1035	S	4
12	B13-6		1040		
13	B13-10		1042		
14	B13-14		1055		
15	B13-16		1105		
16	B14-2.5		1125		
17	B14-6		1130		
18	B14-10		1135		
19	B14-14		1140		
20	B14-16		1150		

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

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>SES</u>	<u>4/18/18</u>	<u>1545</u>	*PCE Reporting Limit = 0.025 mg/kg
<u>[Signature]</u>	<u>Alpha</u>	<u>4/18/18</u>	<u>1545</u>	† Preliminary Results > 14 mg/kg run TCLP
<u>[Signature]</u>	<u>Alpha</u>	<u>4/18/18</u>	<u>1647</u>	Report PCE, TCE, cis/trans
<u>[Signature]</u>	<u>OSE</u>	<u>4/18/18</u>	<u>1647</u>	1,2 DCE and VC.
				X added 4-19-18 KL
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



Analytical Laboratory Testing Services  
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# Chain of Custody

Company: Sound Earth Strategies  
Project Number: 0051-002  
Project Name: Hearthstone  
Project Manager: Tom Cammarata  
Sampled by: SNW & GRM

**Turnaround Request (in working days)**

(Check One)

Same Day     1 Day

2 Days     3 Days

Standard (7 Days)  
(TPH analysis 5 Days)

\_\_\_\_\_ (other)

**Laboratory Number: 04-215**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
21	B15-6	4/18/18	1230	S	4					X														X
22	B15-10		1232							X														X
23	B15-14		1235							X														X
24	B15-16		1245																					
25	B16-2.5		1335																					
26	B16-6		1340							X														X
27	B16-10		1345							X														X
28	B16-14		1352							X														X
29	B16-16		1400																					
30	B17-2.5		1415																					

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Sarah Wells</i>	SES	4/18/18	1545	* PCE Reporting Limit = 0.025 mg/kg
Received	<i>[Signature]</i>	Alpha	4/18/18	1545	T Preliminary Results > 14 mg/kg run TCLP
Relinquished	<i>[Signature]</i>	Alpha	4/18/18	16:47	report PCE, TCE, cis/trans
Received	<i>Hester Lirrei</i>	OSE	4/18/18	16:47	1,2 DCE and VC
Relinquished					x added 4-19-18 KL
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



# Sample/Cooler Receipt and Acceptance Checklist

Client: SES

Client Project Name/Number: 0651-002

OnSite Project Number: 04-215

Initiated by: KL

Date Initiated: 4/18/18

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1 2 3 4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1 2 3 4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No		1 2 3 4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	Temperature: <u>1, 3</u>	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A		
1.7 How were the samples delivered?	Client	<input checked="" type="radio"/> Courier	UPS/FedEx	OSE Pickup Other

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No	1 2 3 4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	<input checked="" type="radio"/> N/A
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	<input checked="" type="radio"/> N/A
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No	1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No	1 2 3 4
3.8 Was method 5035A used?	<input checked="" type="radio"/> Yes	No	N/A
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	# <u>1</u>		N/A

### Explain any discrepancies:


1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed



***OnSite Environmental, Inc. #1804-226***



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

May 1, 2018

Tom Cammarata  
Sound Earth Strategies  
2811 Fairview Avenue East, Suite 2000  
Seattle, WA 98102

Re: Analytical Data for Project 0651-002  
Laboratory Reference No. 1804-226

Dear Tom:

Enclosed are the analytical results and associated quality control data for samples submitted on April 19, 2018.

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

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

Sincerely,

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

David Baumeister  
Project Manager

Enclosures



---

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

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

Date of Report: May 1, 2018  
Samples Submitted: April 19, 2018  
Laboratory Reference: 1804-226  
Project: 0651-002

### Case Narrative

Samples were collected on April 19, 2018 and received by the laboratory on April 19, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B19-6</b>					
Laboratory ID:	04-226-02					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	0.24	0.051	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B19-10</b>					
Laboratory ID:	04-226-03					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B19-14</b>					
Laboratory ID:	04-226-04					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B20-6</b>					
Laboratory ID:	04-226-07					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	0.40	0.058	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B20-10</b>					
Laboratory ID:	04-226-08					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B20-14</b>					
Laboratory ID:	04-226-09					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B21-6</b>					
Laboratory ID:	04-226-12					
Vinyl Chloride	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Trichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Tetrachloroethene	0.15	0.046	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B21-10</b>					
Laboratory ID:	04-226-13					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B21-14</b>					
Laboratory ID:	04-226-14					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B22-2.5</b>					
Laboratory ID:	04-226-16					
Vinyl Chloride	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Trichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Tetrachloroethene	0.041	0.025	EPA 8260C	4-30-18	4-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B22-6</b>					
Laboratory ID:	04-226-17					
Vinyl Chloride	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Trichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Tetrachloroethene	0.025	0.025	EPA 8260C	4-30-18	4-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B22-10</b>					
Laboratory ID:	04-226-18					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B22-14</b>					
Laboratory ID:	04-226-19					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B23-6</b>					
Laboratory ID:	04-226-22					
Vinyl Chloride	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Trichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B23-10</b>					
Laboratory ID:	04-226-23					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B23-14</b>					
Laboratory ID:	04-226-24					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B24-6</b>					
Laboratory ID:	04-226-27					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B24-10</b>					
Laboratory ID:	04-226-28					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B24-14</b>					
Laboratory ID:	04-226-29					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B25-2.5</b>					
Laboratory ID:	04-226-31					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B25-6</b>					
Laboratory ID:	04-226-32					
Vinyl Chloride	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Trichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B25-10</b>					
Laboratory ID:	04-226-33					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B25-14</b>					
Laboratory ID:	04-226-34					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B26-2.5</b>					
Laboratory ID:	04-226-36					
Vinyl Chloride	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Trichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Tetrachloroethene	0.085	0.025	EPA 8260C	4-27-18	4-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B26-6</b>					
Laboratory ID:	04-226-37					
Vinyl Chloride	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Trichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B26-10</b>					
Laboratory ID:	04-226-38					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B26-14</b>					
Laboratory ID:	04-226-39					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>122</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>121</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B26-16</b>					
Laboratory ID:	04-226-40					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B27-2.5</b>					
Laboratory ID:	04-226-41					
Vinyl Chloride	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Trichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Tetrachloroethene	0.10	0.025	EPA 8260C	4-30-18	4-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B27-6</b>					
Laboratory ID:	04-226-42					
Vinyl Chloride	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Trichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Tetrachloroethene	0.041	0.025	EPA 8260C	4-30-18	4-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B27-10</b>					
Laboratory ID:	04-226-43					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B27-14</b>					
Laboratory ID:	04-226-44					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### VOLATILES EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>B27-16</b>					
Laboratory ID:	04-226-45					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0425S1					
Vinyl Chloride	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Trichloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-25-18	4-25-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>122</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0426S1					
Vinyl Chloride	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Trichloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-26-18	4-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID: MB0427S1						
Vinyl Chloride	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Trichloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-27-18	4-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>78-130</i>				



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID: MB0430S1						
Vinyl Chloride	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(trans) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
(cis) 1,2-Dichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Trichloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
Tetrachloroethene	ND	0.025	EPA 8260C	4-30-18	4-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>123</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>129</i>	<i>78-130</i>				





Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0425S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0428</b>	<b>0.0416</b>	0.0500	0.0500	86	83	58-126	3	20	
Benzene	<b>0.0528</b>	<b>0.0518</b>	0.0500	0.0500	106	104	72-122	2	19	
Trichloroethene	<b>0.0512</b>	<b>0.0527</b>	0.0500	0.0500	102	105	75-120	3	20	
Toluene	<b>0.0521</b>	<b>0.0486</b>	0.0500	0.0500	104	97	78-123	7	19	
Chlorobenzene	<b>0.0490</b>	<b>0.0475</b>	0.0500	0.0500	98	95	75-120	3	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	93	75-131			
<i>Toluene-d8</i>					97	91	83-130			
<i>4-Bromofluorobenzene</i>					102	96	78-130			



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0426S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0398</b>	<b>0.0397</b>	0.0500	0.0500	80	79	58-126	0	20	
Benzene	<b>0.0524</b>	<b>0.0532</b>	0.0500	0.0500	105	106	72-122	2	19	
Trichloroethene	<b>0.0548</b>	<b>0.0561</b>	0.0500	0.0500	110	112	75-120	2	20	
Toluene	<b>0.0502</b>	<b>0.0506</b>	0.0500	0.0500	100	101	78-123	1	19	
Chlorobenzene	<b>0.0486</b>	<b>0.0481</b>	0.0500	0.0500	97	96	75-120	1	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>101</i>	<i>101</i>	<i>75-131</i>			
<i>Toluene-d8</i>					<i>102</i>	<i>102</i>	<i>83-130</i>			
<i>4-Bromofluorobenzene</i>					<i>108</i>	<i>105</i>	<i>78-130</i>			



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0427S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0404</b>	<b>0.0398</b>	0.0500	0.0500	81	80	58-126	1	20	
Benzene	<b>0.0520</b>	<b>0.0529</b>	0.0500	0.0500	104	106	72-122	2	19	
Trichloroethene	<b>0.0545</b>	<b>0.0558</b>	0.0500	0.0500	109	112	75-120	2	20	
Toluene	<b>0.0500</b>	<b>0.0515</b>	0.0500	0.0500	100	103	78-123	3	19	
Chlorobenzene	<b>0.0474</b>	<b>0.0483</b>	0.0500	0.0500	95	97	75-120	2	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					93	96	75-131			
<i>Toluene-d8</i>					92	97	83-130			
<i>4-Bromofluorobenzene</i>					95	100	78-130			



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

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

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0430S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0350</b>	<b>0.0345</b>	0.0500	0.0500	70	69	58-126	1	20	
Benzene	<b>0.0529</b>	<b>0.0520</b>	0.0500	0.0500	106	104	72-122	2	19	
Trichloroethene	<b>0.0547</b>	<b>0.0533</b>	0.0500	0.0500	109	107	75-120	3	20	
Toluene	<b>0.0511</b>	<b>0.0493</b>	0.0500	0.0500	102	99	78-123	4	19	
Chlorobenzene	<b>0.0481</b>	<b>0.0468</b>	0.0500	0.0500	96	94	75-120	3	18	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					93	93	75-131			
<i>Toluene-d8</i>					95	94	83-130			
<i>4-Bromofluorobenzene</i>					102	102	78-130			



Date of Report: May 1, 2018  
 Samples Submitted: April 19, 2018  
 Laboratory Reference: 1804-226  
 Project: 0651-002

### % MOISTURE

Date Analyzed: 4-26&27-18

Client ID	Lab ID	% Moisture
B19-6	04-226-02	14
B19-10	04-226-03	12
B19-14	04-226-04	17
B20-6	04-226-07	19
B20-10	04-226-08	13
B20-14	04-226-09	17
B21-6	04-226-12	13
B21-10	04-226-13	13
B21-14	04-226-14	11
B22-2.5	04-226-16	13
B22-6	04-226-17	17
B22-10	04-226-18	15
B22-14	04-226-19	10
B23-6	04-226-22	15
B23-10	04-226-23	13
B23-14	04-226-24	10
B24-6	04-226-27	15
B24-10	04-226-28	17
B24-14	04-226-29	10
B25-2.5	04-226-31	19
B25-6	04-226-32	26
B25-10	04-226-33	12
B25-14	04-226-34	6
B26-2.5	04-226-36	26
B26-6	04-226-37	16
B26-10	04-226-38	15
B26-14	04-226-39	12



Date of Report: May 1, 2018  
Samples Submitted: April 19, 2018  
Laboratory Reference: 1804-226  
Project: 0651-002

### % MOISTURE

Date Analyzed: 4-26&27-18

Client ID	Lab ID	% Moisture
B26-16	04-226-40	8
B27-2.5	04-226-41	36
B27-6	04-226-42	19
B27-10	04-226-43	14
B27-14	04-226-44	13
B27-16	04-226-45	15





### Data Qualifiers and Abbreviations

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



# Chain of Custody

Turnaround Request (in working days)		Laboratory Number: <span style="color: red; font-weight: bold;">04-226</span>																				
(Check One)		Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Px (Acid + SG Clean-up) PCE + BTEX	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	SemiVolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Hold	% Moisture	
<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> _____ (other)																						
Lab ID	Sample Identification		Date Sampled	Time Sampled	Matrix																	
1	B19-2.5		4/14/18	0800	S	4																
2	B19-6		0810																		X	
3	B19-10		0812																		X	
4	B19-14		0815																		X	
5	B19-18		0820																			
6	B20-2.5		0840																			
7	B20-6		0845																		X	
8	B20-10		0847																		X	
9	B20-14		0850																		X	
10	B20-16		0900																			
Signature		Company		Date	Time	Comments/Special Instructions																
Relinquished		Sarah Welts		SES	4/14/18	4:10	* PCE Reporting Limit = 0.025 mg/kg † Preliminary Results >14 mg/kg run TCLP. X-Added 4/23/18 - DB (STA)															
Received		Van		spdy	4/19/18	4:10																
Relinquished		Van		spdy	4/19/18	1650																
Received		Katie Lisci		OSE	4/19/18	1650																
Relinquished							Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>															
Received																						
Reviewed/Date		Reviewed/Date		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>																		



# Chain of Custody

Company: Sound Earth Strategies  
Project Number: 0651-002  
Project Name: Hearthstone  
Project Manager: Tom Cammarata  
Sampled by: SNW & GRM

**Turnaround Request (in working days)**

(Check One)

Same Day       1 Day  
 2 Days         3 Days  
 Standard (7 Days)  
(FPH analysis 5 Days)  
 \_\_\_\_\_ (other)

**Laboratory Number: 04-226**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
11	Ba1-2.5	4/19/18	0915	S	4					<u>PCE**</u>														
12	Ba1-6		0920							X														X
13	Ba1-10		0925							X														X
14	Ba1-14		0927							X														X
15	Ba1-16		0930																					
16	Ba2-2.5		1000							X														X
17	Ba2-6		1005							X														X
18	Ba2-10		1007							X														X
19	Ba2-14		1012							X														X
20	Ba2-16		1015																					

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Sarah Welch</u>	<u>SES</u>	<u>4/19/18</u>	<u>4:10</u>	*PCE Repairing Limit = 0.025 mg/kg † Preliminary Results > 14 mg/kg via TCLP
Received	<u>Van</u>	<u>spdy</u>	<u>4/19/18</u>	<u>4:10</u>	
Relinquished	<u>Van</u>	<u>spdy</u>	<u>4/19/18</u>	<u>1650</u>	
Received	<u>White Lisa</u>	<u>OSE</u>	<u>4/19/18</u>	<u>1650</u>	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

# Chain of Custody

Laboratory Number: **04-226**

Company: Sound Earth Strategies  
 Project Number: 0651-002  
 Project Name: Hearthstone  
 Project Manager: Tom Cammarata  
 Sampled by: SMW & GRM

**Turnaround Request (in working days)**

(Check One)

Same Day       1 Day  
 2 Days         3 Days  
 Standard (7 Days)  
 (TPH analysis 5 Days)  
 \_\_\_\_\_ (other)

Number of Containers

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-GxBTEX	NWTPH-Gx	NWTPH-Dx ( <input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
21	Ba3-25	4/19/18	1030	S	4																			
22	Ba3-6		1033							X														X
23	Ba3-10		1035							X														X
24	Ba3-14		1040							X														X
25	Ba3-16		1045																					
26	Ba4-28		1200																					
27	Ba4-6		1203							X														X
28	Ba4-10		1205							X														X
29	Ba4-14		1210							X														X
30	Ba4-16		1215																					

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Sarah Welter</u>	<u>SFS</u>	<u>4/19/18</u>	<u>7:10</u>	*PCE Reporting Limit = 0.025 mg/kg † Preliminary Results > 14 mg/kg run TCLP
Received	<u>Van</u>	<u>Sply</u>	<u>4/19/18</u>	<u>7:10</u>	
Relinquished	<u>Van</u>	<u>Sply</u>	<u>4/19/18</u>	<u>16:50</u>	
Received	<u>Walter Liswed</u>	<u>OSE</u>	<u>4/19/18</u>	<u>16:50</u>	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

Hold

# Chain of Custody

Company: Sound Earth  
 Project Number: 0651-002  
 Project Name: Hearthstone  
 Project Manager: Tom Cammarata  
 Sampled by: SNW & GRM

**Turnaround Request (in working days)**

(Check One)

Same Day       1 Day  
 2 Days         3 Days  
 Standard (7 Days)  
 (TPH analysis 5 Days)  
 \_\_\_\_\_ (other)

**Laboratory Number: 04-226**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytical Parameters														% Moisture						
						NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C <u>PCE*</u>	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals		Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A			
31	Ba5-2.5	4/9/18	1225	S	4					X																X
32	Ba5-6		1230							X																X
33	Ba5-10		1233							X																X
34	Ba5-14		1235							X																X
35	Ba5-16		1240																							
36	Ba6-2.5		1307							X																X
37	Ba6-6		1315							X																X
38	Ba6-10		1317							X																X
39	Ba6-14		1320							X																X
40	Ba6-16		1325							X																X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Sandy Welter</u>	<u>SBS</u>	<u>4/9/18</u>	<u>4:10</u>	*PCE Reporting Limit = 0.005 mg/kg + Preliminary Results > 14 mg/kg run TCLP
Received	<u>Van</u>	<u>Sply</u>	<u>4/9/18</u>	<u>4:10</u>	
Relinquished	<u>Van</u>	<u>oply</u>	<u>4/9/18</u>	<u>1650</u>	
Received	<u>Walter Lisous</u>	<u>OSE</u>	<u>4/9/18</u>	<u>1650</u>	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

# Chain of Custody

Company: Sound Earth Strategies  
 Project Number: 0651-002  
 Project Name: Hearthstone  
 Project Manager: Tom Cammarata  
 Sampled by: SNwe GRM

**Turnaround Request (in working days)**

(Check One)

Same Day       1 Day  
 2 Days       3 Days  
 Standard (7 Days)  
 (TPH analysis 5 Days)  
 \_\_\_\_\_ (other)

Laboratory Number: **04-226**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
41	B27-25	4/19/18	1337	S	4
42	B27-6		1342		
43	B27-10		1345		
44	B27-14		1350		
45	B27-16		1355		

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

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Sarah Muts</u>	<u>SES</u>	<u>4/19/18</u>	<u>4:10</u>	*PCE Regulatory Limit = 0.005 mg/kg † Preliminary Results > 14 mg/kg via TCLP
Received	<u>Van</u>	<u>SPdy</u>	<u>4/19/18</u>	<u>4:10</u>	
Relinquished	<u>Van</u>	<u>SPdy</u>	<u>4/19/18</u>	<u>1650</u>	
Received	<u>White Lissey</u>	<u>OSE</u>	<u>4/19/18</u>	<u>1650</u>	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

# Sample/Cooler Receipt and Acceptance Checklist

Client: SES  
 Client Project Name/Number: 0651-002  
 OnSite Project Number: 04-226

Initiated by: [Signature]  
 Date Initiated: 4/19/18

## 1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	No	<u>N/A</u>	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<u>N/A</u>	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<u>N/A</u>	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<u>Yes</u>	No		1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<u>Yes</u>	No	Temperature: <u>5.5</u>				
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<u>N/A</u>					
1.7 How were the samples delivered?	Client	<u>Courier</u>	UPS/FedEx	OSE Pickup	Other		

## 2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<u>Yes</u>	No		1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<u>Yes</u>	No		1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<u>Yes</u>	No		1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<u>Yes</u>	No		1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<u>Yes</u>	No		1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<u>No</u>		1	2	3	4

## 3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<u>No</u>		1	2	3	4
3.2 Were any sample labels missing or illegible?	Yes	<u>No</u>		1	2	3	4
3.3 Have the correct containers been used for each analysis requested?	<u>Yes</u>	No		1	2	3	4
3.4 Have the samples been correctly preserved?	Yes	No	<u>N/A</u>	1	2	3	4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	<u>N/A</u>	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<u>Yes</u>	No		1	2	3	4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<u>No</u>		1	2	3	4
3.8 Was method 5035A used?	<u>Yes</u>	No	N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	<u>1</u>	N/A	1	2	3	4

### Explain any discrepancies:


1 - Discuss issue in Case Narrative

3 - Client contacted to discuss problem

2 - Process Sample As-is

4 - Sample cannot be analyzed or client does not wish to proceed