



December 7, 2016

Andrew A. Levy, Esq
21 Benedict Place
Greenwich, CT 06830

Re: Subsurface Investigation Summary Report
Metal Finishing Inc.
4000 88th Street NE, Marysville, WA
Project No. 160157-01

Dear Mr. Levy:

Aspect Consulting, LLC (Aspect) has prepared this summary report to document the results of the subsurface investigation conducted at the Metal Finishing Inc. facility located at 4000 88th Street Northeast in Marysville, Washington (herein referred to as the Subject Site). The investigation was conducted to determine the presence or absence of heavy metals and other contaminants of potential concern (COPCs) in soil and groundwater associated with historical operations on and adjacent to the Subject Site. This summary report provides a brief description of the site location and background, a summary of the soil investigation activities, and a discussion of the results.

The results of the investigation did not identify concentrations of metals, total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCs) exceeding applicable Washington State Model Toxics Control Act (MTCA) cleanup levels based on unrestricted (residential) land use, in the soil and groundwater samples collected during the investigation, with one exception. Arsenic was detected in a soil sample collected at boring IB-4, an interior boring located within a small outbuilding identified as the Still/Rectifier Building. The concentration of arsenic was reported to be 91 milligrams per kilogram (mg/kg), which exceeds the MTCA Method A cleanup level of 20 mg/kg (for both unrestricted/residential use and industrial use). The arsenic was detected in a sample collected by Aspect from 1 foot beneath the concrete floor slab of the building. A sample collected from the same boring at 5 feet bgs did not contain arsenic above the laboratory reporting limit of 11 mg/kg. A sample collected from a second boring completed next to boring IB-4, to allow for sample collection by another consultant, did not contain arsenic above the reporting limit in the same approximate depth interval. Based on this data, the presence of arsenic at concentrations exceeding the MTCA cleanup level is limited in extent and the presence of a building over the soil prevents exposure to site workers through the direct contact pathway.

Site Background and Description

The Subject Site is approximately 2.1 acres of a 21.43-acre property located at the southwest corner of the intersection of 88th Street Southeast and State Avenue/US Highway 99 in Marysville, Washington (Figure 1). The property is bound to the north by 88th Street Northeast, to the east by

BNSF railroad tracks beyond which is State Avenue/US Highway 99, to the south by mixed residential and commercial use, and to the west by green space and Quilceda Creek. Three developed areas on the property are used for industrial/commercial use and currently include Quil Ceda Tanning, Metal Finishing Inc., and Nordstrom Heating and Air.

The Subject Site was reportedly developed in 1975 by Pacific Metals, whose specific operations are unknown. Prior to development, the Subject Site was undeveloped forested land. Metal Finishing Inc. has operated on the Subject Site since the early 1990s.

The adjacent Quil Ceda Tanning is listed on the Washington State Department of Ecology (Ecology) Confirmed and Suspected Contaminated Sites List (CSCSL). Quil Ceda Tanning operated between 1932 and 2011 and reportedly included leather tanning, production and manufacturing, including wholesale and retail operations. A 2012 Site Hazard Assessment (SHA) identified concentrations of hexavalent chromium in soil at concentrations above applicable state cleanup levels and indicated that concentrations were also suspected to be present in groundwater and surface water.

Investigation Activities

The soil investigation activities included the following:

- Excavation of nine 6-foot-deep test pits to observe and document shallow soil conditions and to collect soil samples for laboratory analysis;
- Advancement of eight 15-foot-deep soil borings to observe and document subsurface soil conditions and collect soil samples for laboratory analysis;
- Advancement of four soil borings, to depths of approximately 5 feet below the water table, to collect soil and groundwater reconnaissance samples for laboratory analysis;
- Advancement of four 5-foot-deep soil borings in interior areas of the two buildings to collect soil samples for laboratory analysis;
- Laboratory analysis of select soil and groundwater samples collected from the test pits and borings for Priority Pollutant Metals, hexavalent chromium, VOCs, SVOCs and TPH.

Test pits TP-1 through TP-9 were excavated by Clearcreek Contractors on August 15, 2016. Prior to excavation, surface vegetation was cleared if necessary to access the exploration location. Each test pit was excavated to a total depth of 6 feet below ground surface (bgs). Soil borings SB-1 through SB-8 were drilled by ESN Northwest on August 17, 2016. The borings were advanced to 15 feet bgs in areas proximal to the building and operations area on the Subject site (Figure 2).

Soil borings SB-9 through SB-12 were drilled by Holocene on October 11, 2016 and October 12, 2016. The borings were advanced to total depths ranging from 26.5 to 31.5 feet bgs (approximately 5 feet below the depth to groundwater at the time of drilling). Groundwater samples were collected from a temporary well screen, after a sufficient volume of water had been purged to minimize turbidity. Shallow soil borings IB-1 through IB-4 were drilled by Holocene on October 12, 2016. The borings were advanced to 5 feet bgs in the interior of the buildings.

Soil types were observed and classified by an Aspect geologist according to the Unified Soil Classification System (USCS) and field screened using a photoionization detector (PID) to measure volatile organic vapors in soil. Field screening also included visual observation of soil for potential staining and/or the presence of metallic material. The test pit logs and boring logs, documenting the subsurface conditions and results of field screening, are included as Attachment A.

The outside test pit and boring locations are depicted on Figure 2. Because of dense vegetation, the boundaries of the Subject Site were difficult to determine in the field. As a result, a number of explorations were completed outside of the Subject Site boundary. The observed conditions in all of the explorations are discussed herein; however, soil samples collected from explorations completed outside of the Subject Site boundary were not submitted for laboratory analysis. The interior boring locations are depicted on Figure 3.

Results

The regional geology in the vicinity of the Subject Site is mapped as Recessional Marine Deposits or Marysville Sand Member and described as well-drained, stratified to massive outwash sand, containing a little fine gravel, silt and clay (USGS, 1985). The soil observed in test pits and borings consisted primarily of sand, with varying but minor amounts of silt and gravel, from the ground surface to the total depth explored of 31.5 feet bgs (Attachment A), which is consistent with the reported regional geology. Anthropogenic debris (plastic and paper garbage) was observed in test pit TP-8 at a depth of approximately 3 to 3.5 feet bgs. Besides this observed debris, all the soil appeared to be undisturbed native soil and there were no visual observations, odors, or elevated PID measurements that would indicate the potential presence of the COPCs in soil. Groundwater was encountered in SB-9 through SB-12 at depths ranging from 20 to 25 feet bgs.

The soil laboratory analytical results for metals are presented in Table 1. The soil analytical results for other detected COPCs are presented in Table 2. The groundwater analytical results for metals and other detected COPCs are presented in Table 3. The laboratory analytical reports, presenting the full results for all analyses, are included as Attachment B.

The metals reported to be present in the soil samples analyzed consist of arsenic, cadmium, chromium, copper, lead, nickel, and zinc (Table 1). The soil sample collected from boring IB-4 at a depth of 1 foot bgs contained arsenic at a concentration of 91 mg/kg, which is above the MTCA cleanup level of 20 mg/kg for both unrestricted (residential) land use and industrial land use. A sample collected from the same boring at 5 feet bgs did not contain arsenic above the laboratory reporting limit of 11 mg/kg (Table 1). A sample collected from a second boring, completed approximately 2 feet from boring IB-4 to allow for sample collection by another consultant, did not contain arsenic above the reporting limit in the same approximate depth interval. Based on this data, the presence of arsenic at concentrations exceeding the MTCA cleanup level is limited in extent and the presence of a building over the soil prevents exposure to site workers through the direct contact pathway. It is our opinion that neither release reporting or cleanup would be warranted under MTCA to address the arsenic in soil at boring IB-4.

The reported concentrations of all the other metals are consistent with Washington State Natural Background Soil Metals Concentrations (Ecology, 1994) and/or below the MTCA cleanup levels (Table 1). Hexavalent chromium was not detected above the laboratory reporting limit in any of the

samples analyzed (Table 1). The other COPCs detected in soil consist of oil-range TPH, tetrachloroethene and trichloroethene, bis-2-ethylhexyladipate and dimethyl phthalate, pyrene and naphthalenes; the detected concentrations are all below the applicable MTCA soil cleanup levels (Table 2).

The groundwater laboratory analytical results are presented in Table 3. The analytes reported to be present in the groundwater samples analyzed consist of lead, naphthalenes, benzo(a)anthracene, tetrachloroethene, and trichloroethene. The detected concentrations of these analytes are all below the applicable MTCA cleanup levels for groundwater (Table 3).

Limitations

Work for this project was performed for Andrew A. Levy, Esq. (Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This letter does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

References

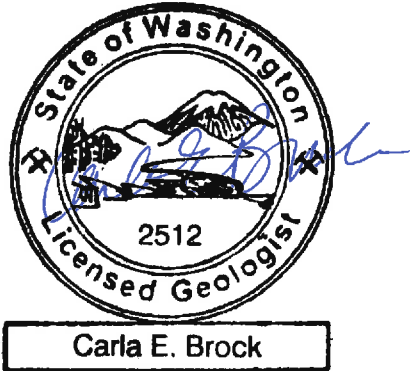
US Geological Survey, 1985. Geologic map of the Marysville quadrangle, Snohomish County, Washington. Miscellaneous Field Studies Map MF-1743.

Mr. Andrew A. Levy, Esq.
December 7, 2016

Project No. 160157-01

Sincerely,

Aspect consulting, LLC



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Attachments: Table 1 - Summary of Soil Analytical Data for Metals
Table 2 - Summary of Soil Analytical Data for Other Constituents
Table 3 - Summary of Groundwater Analytical Data
Figure 1 - Site Vicinity Map
Figure 2 - Exploration Locations
Figure 3 - Interior Boring Locations
Attachment A - Test Pit and Boring Logs
Attachment B - Laboratory Analytical Reports

V:\160157 Metal Finishing Inc\Deliverables\Subsurface Investigation Summary Report.docx

TABLES

Table 1 - Summary of Soil Analytical Data for Metals

Metal Finishing Inc., Marysville, Washington
Project No. 160157-01

Exploration Identification	Sample Name	Sample Date	Sample Depth (feet bgs) ¹	Analytical Results (milligrams per kilogram)													
				Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Hexavalent Chromium
Test Pit Explorations																	
TP-2	TP-2-1'	8/15/2016	1-1.5	<5.4	<11	<0.54	<0.54	41	18	7.6	<0.27	45	<11	<1.1	<2.7	44	<1.1
TP-2	TP-2-5'	8/15/2016	5-5.5	<5.1	<10	<0.51	<0.51	32	16	<5.1	<0.26	44	<10	<1.0	<2.6	36	<1.0
TP-5	TP-5-1.5'	8/15/2016	1.5-2	<5.2	<10	<0.52	<0.52	38	20	<5.2	<0.26	48	<10	<1.0	<2.6	36	--
TP-5	TP-5-5'	8/15/2016	5-5.5	<5.2	<10	<0.52	<0.52	45	20	<5.2	<0.26	55	<10	<1.0	<2.6	38	--
TP-6	TP-6-1.5'	8/15/2016	1.5-2	<5.4	<11	<0.54	<0.54	37	19	<5.4	<0.27	38	<11	<1.1	<2.7	52	--
TP-6	TP-6-5'	8/15/2016	5-5.5	<5.1	<10	<0.51	<0.51	54	19	<5.1	<0.26	49	<10	<1.0	<2.6	36	--
TP-9	TP-9-1.5'	8/15/2016	1.5-2	<5.4	<11	<0.54	<0.54	38	15	<5.4	<0.27	41	<11	<1.1	<2.7	47	--
TP-9	TP-9-5'	8/15/2016	5-5.5	<5.2	<10	<0.52	<0.52	39	19	<5.2	<0.26	48	<10	<1.0	<2.6	37	--
Soil Boring Explorations																	
SB-2	SB-2 18-24"	8/17/2016	1.5-2	<5.3	<11	<0.53	<0.53	32	17	<5.3	<0.26	42	<11	<1.1	<2.6	35	<1.1
SB-3	SB-3 18-24"	8/17/2016	1.5-2	<5.3	<11	<0.53	<0.53	40	21	<5.3	<0.27	44	<11	<1.1	<2.7	41	--
SB-4	SB-4 18-24"	8/17/2016	1.5-2	<5.2	<10	<0.52	<0.52	34	17	<5.2	<0.26	46	<10	<1.0	<2.6	34	<1.0
SB-5	SB-5 18-24"	8/17/2016	1.5-2	<5.3	<11	<0.53	<0.53	43	19	<5.3	<0.26	45	<11	<1.1	<2.6	40	--
SB-6	SB-6 18-24"	8/17/2016	1.5-2	<5.1	<10	<0.51	<0.51	34	20	<5.1	<0.26	46	<10	<1.0	<2.6	36	--
SB-9	SB-9-16	10/11/2016	16	<5.3	<11	<0.53	<0.53	33	16	<5.3	<0.27	41	<11	<1.1	<1.3	37	<1.1
SB-10	SB-10-16	10/11/2016	16	<5.3	<11	<0.53	<0.53	28	16	<5.3	<0.26	37	<11	<1.1	<1.3	35	<1.1
SB-11	SB-11-16	10/11/2016	16	<5.4	<11	<0.54	<0.54	32	14	<5.4	<0.27	44	<11	<1.1	<1.3	31	<1.1
SB-12	SB-12-16	10/12/2016	16	<5.2	<10	<0.52	<0.52	32	15	<5.2	<0.26	42	<10	<1.0	<1.3	31	<1.1
Interior Borings																	
IB-1	IB-1-1	10/11/2016	1	<5.2	<10	<0.52	<0.52	43	20	<5.2	<0.26	51	<10	<1.0	<1.3	34	<1.1
IB-1	IB-1-5	10/11/2016	5	<5.1	<10	<0.51	<0.51	39	17	<5.1	<0.26	45	<10	<1.0	<1.3	29	<1.1
IB-2	IB-2-1	10/11/2016	1	<5.5	<11	<0.55	<0.55	38	17	5.8	<0.28	44	<11	<1.1	<1.4	35	<1.1
IB-2	IB-2-5	10/11/2016	5	<5.1	<10	<0.51	<0.51	37	17	<5.1	<0.26	47	<10	<1.0	<1.3	32	<1.1
IB-3	IB-3-1	10/11/2016	1	<5.4	<11	<0.54	<0.54	32	12	<5.4	<0.27	36	<11	<1.1	<1.3	24	<1.1
IB-3	IB-3-5	10/11/2016	5	<5.4	<11	<0.54	<0.54	35	16	5.6	<0.27	43	<11	<1.1	<1.3	37	<1.1
IB-4	IB-4-1	10/11/2016	1	<5.4	91	<0.54	0.59	25	93	15	<0.27	77	<11	<1.1	<1.3	240	<1.1
IB-4	IB-4-5	10/11/2016	5	<5.5	<11	<0.55	<0.55	35	21	<5.5	<0.27	41	<11	<1.1	<1.4	36	<1.1
Washington State Natural Background Soil Metals Concentrations ²				5	7	0.6	1	48	36	24	0.07	48	0.78	0.61	NA	85	NA
MTCA Soil Cleanup Levels ³				32	20	160	2	2,000	3,200	250	2	1,600	400	400	0.81	24,000	19

Notes
Shaded cells highlight analytes detected above the laboratory reporting limit
< Indicates analyte not detected above the stated laboratory reporting limit
-- Indicates sample not analyzed
¹Depth of soil sample collected in feet below ground surface (bgs)
²Natural Background Soil Metals Concentrations in Washington State, Ecology 1994. Values for Puget Sound used where available, statewide values used where regional values are not avaiable
³Department of Ecology Model Toxics Control Act (MTCA) Cleanup Regulation soil cleanup levels for unrestricted land use. MTCA Method A used where available, MTCA Method B used elsewhere.

Table 2 - Summary of Soil Analytical Data for Other Constituents

Metal Finishing Inc., Marysville, Washington

Project No. 160157-01

Exploration Identification	Sample Name	Sample Date	Sample Depth (feet bgs) ¹	Analytical Results (milligrams per kilogram)									
				TPH	VOCs		SVOCs						
				Oil-Range	Tetrachloroethene	Trichloroethene	bis-2-ethylhexyladipate	Dimethylphthalate	Pyrene	Naphthalene	1-methylnaphthalene	2-methylnaphthalene	
Test Pit Explorations													
TP-2	TP-2-1'	8/15/2016	1-1.5	--	--	--	--	--	--	--	--	--	
TP-2	TP-2-5'	8/15/2016	5-5.5	<51	<0.00081	<0.00081	--	--	--	--	--	--	
TP-5	TP-5-1.5'	8/15/2016	1.5-2	--	--	--	--	--	--	--	--	--	
TP-5	TP-5-5'	8/15/2016	5-5.5	91	<0.00076	<0.00076	--	--	--	--	--	--	
TP-6	TP-6-1.5'	8/15/2016	1.5-2	--	--	--	--	--	--	--	--	--	
TP-6	TP-6-5'	8/15/2016	5-5.5	<51	<0.00082	<0.00082	--	--	--	--	--	--	
TP-9	TP-9-1.5'	8/15/2016	1.5-2	--	--	--	--	--	--	--	--	--	
TP-9	TP-9-5'	8/15/2016	5-5.5	<52	<0.00073	<0.00073	--	--	--	--	--	--	
Soil Borings													
SB-2	SB-2 18-24"	8/17/2016	1.5-2	--	--	--	--	--	--	--	--	--	
SB-3	SB-3 18-24"	8/17/2016	1.5-2	--	--	--	--	--	--	--	--	--	
SB-4	SB-4 18-24"	8/17/2016	1.5-2	--	--	--	--	--	--	--	--	--	
SB-5	SB-5 18-24"	8/17/2016	1.5-2	--	--	--	--	--	--	--	--	--	
SB-6	SB-6 18-24"	8/17/2016	1.5-2	--	--	--	--	--	--	--	--	--	
SB-9	SB-9-16	10/11/2016	16	--	<0.00097	<0.00097	<0.035	<0.035	<0.0071	<0.0071	<0.0071	<0.0071	
SB-10	SB-10-16	10/11/2016	16	--	<0.0011	<0.0011	<0.035	<0.035	<0.0071	<0.0071	<0.0071	<0.0071	
SB-11	SB-11-16	10/11/2016	16	--	<0.0011	<0.0011	<0.036	<0.036	<0.0072	0.018	0.02	0.034	
SB-12	SB-12-16	10/12/2016	16	--	<0.0012	<0.0012	<0.035	<0.035	<0.0070	<0.0070	<0.0070	<0.0070	
Interior Borings													
IB-1	IB-1-1	10/11/2016	1	--	0.0019	<0.0018	0.22	<0.035	<0.0070	<0.0070	<0.0070	<0.0070	
IB-1	IB-1-5	10/11/2016	5	--	<0.0010	<0.0010	0.097	<0.034	<0.0069	<0.0069	<0.0069	<0.0069	
IB-2	IB-2-1	10/11/2016	1	--	0.0064	0.0048	0.062	<0.037	<0.0074	<0.0074	<0.0074	<0.0074	
IB-2	IB-2-5	10/11/2016	5	--	<0.0014	<0.0014	0.21	<0.034	<0.0068	<0.0068	<0.0068	<0.0068	
IB-3	IB-3-1	10/11/2016	1	--	<0.0011	<0.0011	0.15	<0.036	<0.0072	<0.0072	<0.0072	<0.0072	
IB-3	IB-3-5	10/11/2016	5	--	0.0063	0.0042	0.056	<0.036	0.013	<0.0072	<0.0072	<0.0072	
IB-4	IB-4-1	10/11/2016	1	--	<0.0011	<0.0011	0.35	0.045	0.010	<0.0072	<0.0072	<0.0072	
IB-4	IB-4-5	10/11/2016	5	--	<0.0010	<0.0010	0.047	<0.037	<0.073	<0.0073	<0.0073	<0.0073	
MTCA Soil Cleanup Levels ²				2,000	0.05	0.03	833	NE	2,400	5			

Notes

NE = not established

Shaded cells highlight analytes detected above the laboratory reporting limit

< Indicates analyte not detected above the stated laboratory reporting limit

-- Indicates sample not analyzed

¹Depth of soil sample collected in feet below ground surface (bgs)³Department of Ecology Model Toxics Control Act (MTCA) Cleanup Regulation soil cleanup levels for unrestricted land use. MTCA Method A used where available, MTCA Method B used elsewhere.

Table 3 - Summary of Groundwater Analytical Data

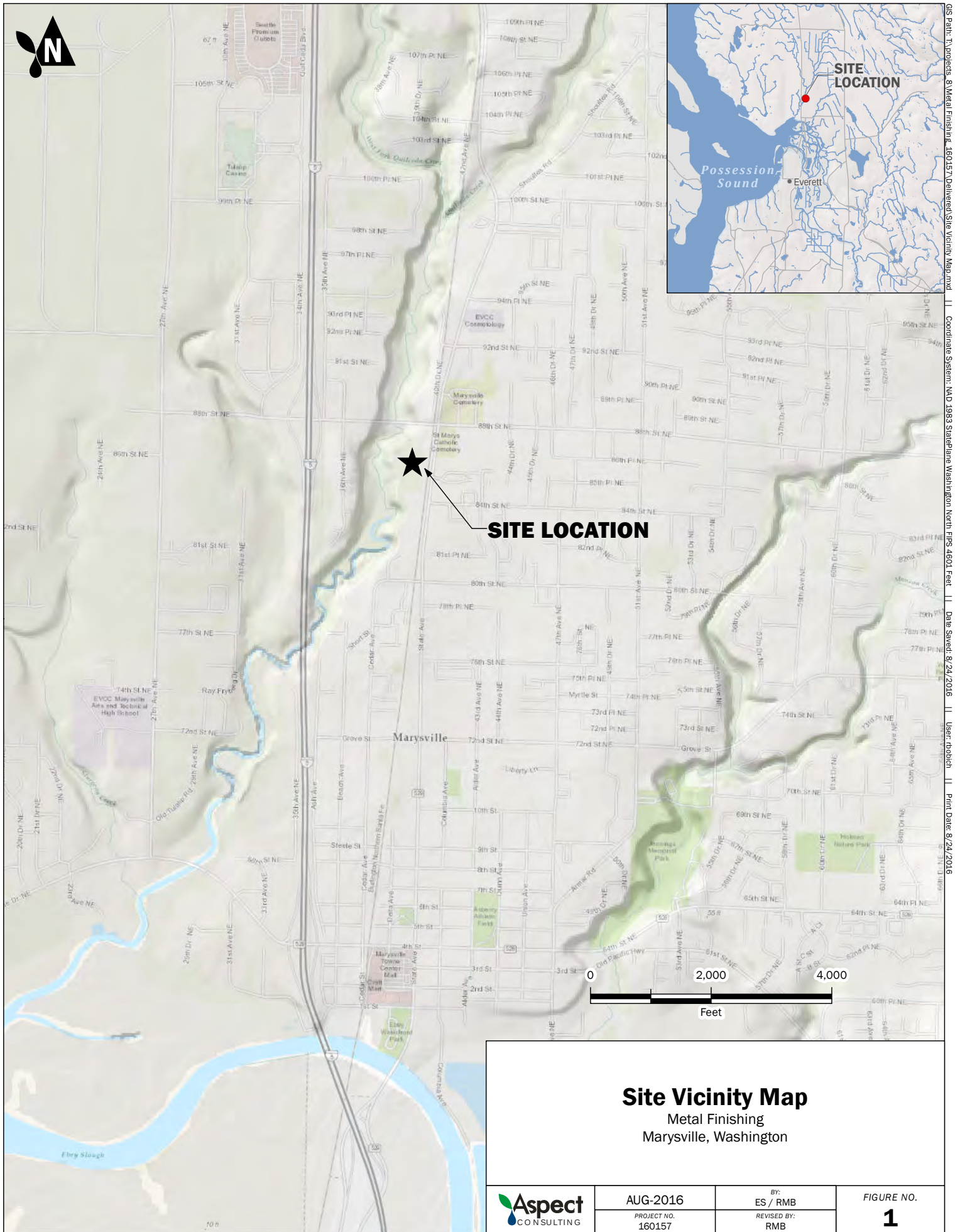
Metal Finishing Inc., Marysville, Washington
Project No. 160157-01

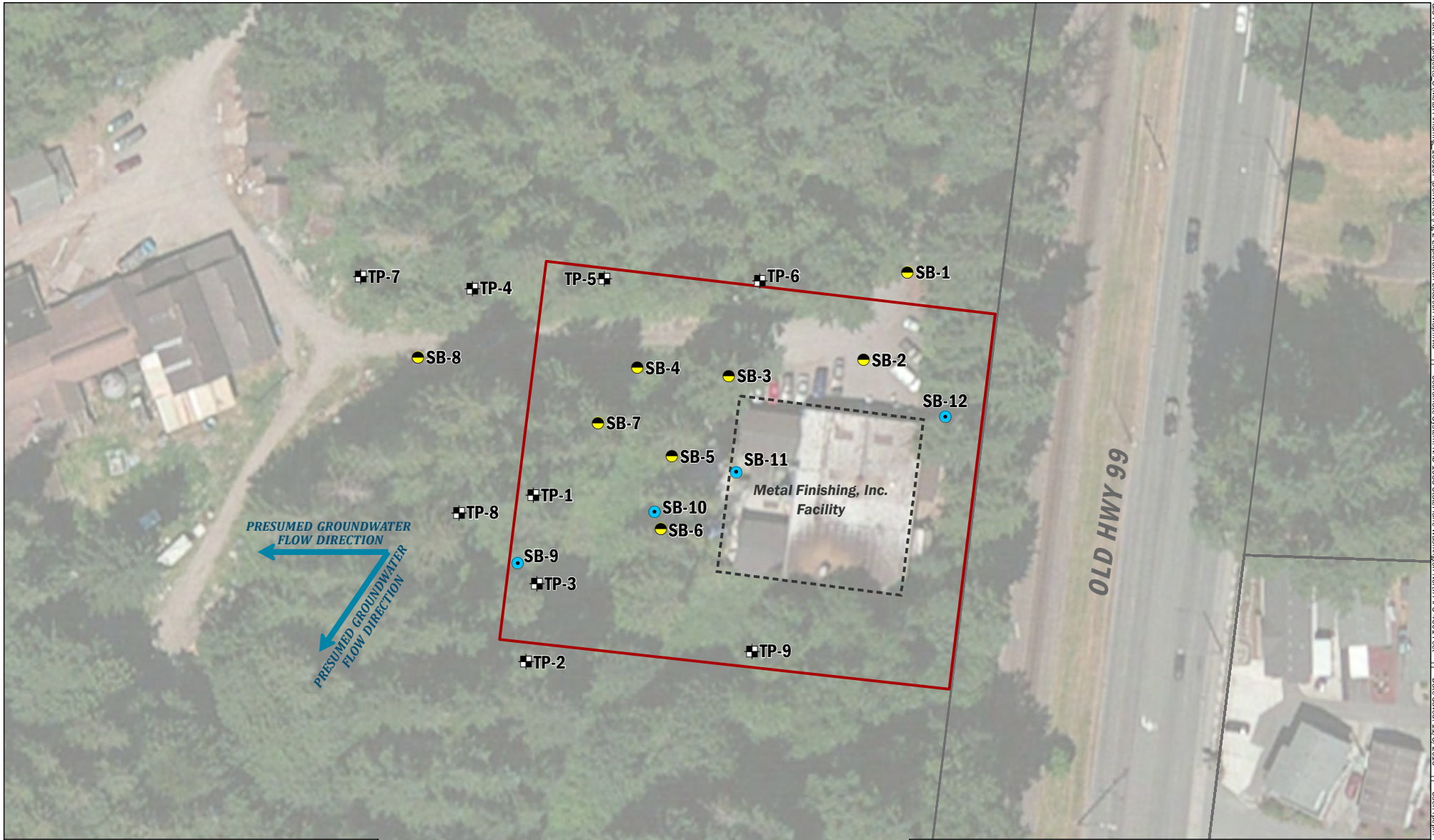
Exploration Identification	Sample Name	Sample Date	Sample Depth (feet bgs) ¹	Analytical Results (µg/L)																								
				Dissolved Metals														SVOCs				VOCs						
				Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Hexavalent Chromium	Naphthalene	1-methylnaphthalene	2-methylnaphthalene	benzo(a)anthracene	Tetrachloroethene	Trichloroethene					
Soil Borings																												
SB-9	SB-9-10112016	10/11/2016	25-30	<5.0	<3.0	<10	<4.0	<10	<10	<1.0	<0.50	<20	<5.0	<10	<5.0	<25	<10	1.3	0.28	0.68	0.011	<0.20	<0.20					
SB-10	SB-10-10112016	10/11/2016	25-30	<5.0	<3.0	<10	<4.0	<10	<10	<1.0	<0.50	<20	<5.0	<10	<5.0	<25	<10	0.66	0.16	0.37	<0.0099	<0.20	0.32					
SB-11	SB-11-10112016	10/11/2016	20-30	<5.0	<3.0	<10	<4.0	<10	<10	1.2	<0.50	<20	<5.0	<10	<5.0	<25	<10	0.25	<0.095	<0.095	<0.0095	1.5	2.3					
SB-12	SB-12-10122016	10/12/2016	18-23	<5.0	<3.0	<10	<4.0	<10	<10	2.0	<0.50	<20	<5.0	<10	<5.0	<25	<10	0.15	<0.095	0.12	0.012	<0.20	<0.20					
MTCA Groundwater Cleanup Levels ²				6.4	5	32	5	50	640	15	2	320	80	80	0.16	4,800	48	160			0.12	5	5					

Notes
Shaded cells highlight analytes detected above the laboratory reporting limit
< Indicates analyte not detected above the stated laboratory reporting limit
-- Indicates sample not analyzed

¹Depth of groundwater sample collected in feet below ground surface (bgs)
²Department of Ecology Model Toxics Control Act (MTCA) Cleanup Regulation cleanup levels for groundwater. MTCA Method A used where available, MTCA Method B used elsewhere.

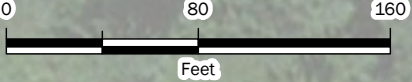
FIGURES





-  Test Pit
-  Soil Boring
-  Soil Boring with Groundwater Data
-  Subject Site
-  Parcel



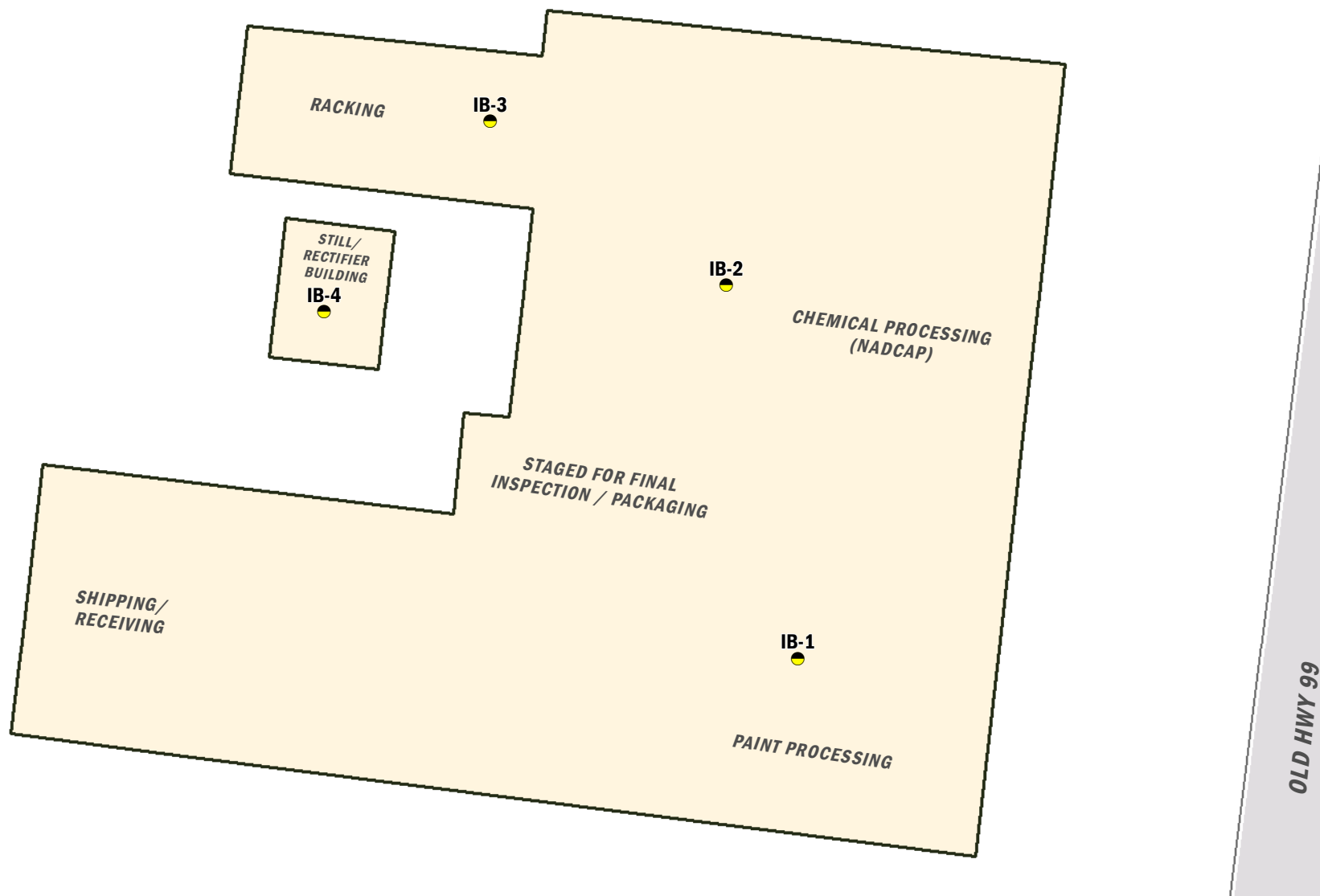


0 80 160
Feet

Exploration Locations

Metal Finishing
Marysville, Washington

	NOV-2016	BY: ES / RMB	FIGURE NO. 2
	PROJECT NO. 160157	REVISED BY: RMB	



 Interior Boring

 MFI Building

 Parcel

NOTE: BUILDING AND BORING LOCATIONS ARE APPROXIMATE.

Interior Boring Locations

Metal Finishing
Marysville, Washington



OCT-2016

PROJECT NO.
160157

BY:
ES / RMB
REVISED BY:
RMB

FIGURE NO.

3

ATTACHMENT A

Test Pit and Boring Logs

Coarse-Grained Soils - More than 50% ⁽¹⁾ Retained on No. 200 Sieve			Terms Describing Relative Density and Consistency			
Gravels - More than 50% ⁽¹⁾ of Coarse Fraction Retained on No. 4 Sieve	⁽⁵⁾	GW	Coarse-Grained Soils	Density	SPT ⁽²⁾ blows/foot	Test Symbols FC = Fines Content G = Grain Size M = Moisture Content A = Atterberg Limits C = Consolidation DD = Dry Density K = Permeability Str = Shear Strength Env = Environmental PiD = Photoionization Detector
				Very Loose	0 to 4	
Sands - 50% ⁽¹⁾ or More of Coarse Fraction Passes No. 4 Sieve	⁽⁵⁾	GP		Loose	4 to 10	
		GM		Medium Dense	10 to 30	
		GC		Dense	30 to 50	
				Very Dense	>50	
		Fine-Grained Soils	⁽⁵⁾	Consistency	SPT ⁽²⁾ blows/foot	
				Very Soft	0 to 2	
Soft	2 to 4					
Medium Stiff	4 to 8					
Stiff	8 to 15					
Very Stiff	15 to 30					
	Hard	>30				
Component Definitions						
Descriptive Term			Size Range and Sieve Number			
Boulders			Larger than 12"			
Cobbles			3" to 12"			
Gravel			3" to No. 4 (4.75 mm)			
Coarse Gravel			3" to 3/4"			
Fine Gravel			3/4" to No. 4 (4.75 mm)			
Sand			No. 4 (4.75 mm) to No. 200 (0.075 mm)			
Coarse Sand			No. 4 (4.75 mm) to No. 10 (2.00 mm)			
Medium Sand			No. 10 (2.00 mm) to No. 40 (0.425 mm)			
Fine Sand			No. 40 (0.425 mm) to No. 200 (0.075 mm)			
Silt and Clay			Smaller than No. 200 (0.075 mm)			
⁽³⁾ Estimated Percentage			Moisture Content			
Percentage by Weight			Dry - Absence of moisture, dusty, dry to the touch			
<5			Slightly Moist - Perceptible moisture			
5 to 15			Moist - Damp but no visible water			
15 to 30			Very Moist - Water visible but not free draining			
30 to 49			Wet - Visible free water, usually from below water table			
Symbols			Grouted Transducer			
Sampler Type			Blows/6" or portion of 6"			
2.0" OD Split-Spoon Sampler (SPT)			Sampler Type Description			
Bulk sample			Continuous Push			
Grab Sample			Non-Standard Sampler			
			3.0" OD Thin-Wall Tube Sampler (including Shelby tube)			
			Portion not recovered			
⁽¹⁾ Percentage by dry weight			⁽⁵⁾ Combined USCS symbols used for fines between 5% and 15% as estimated in General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)			
⁽²⁾ (SPT) Standard Penetration Test (ASTM D-1586)			⁽⁴⁾ Depth of groundwater			
⁽³⁾ In General Accordance with Standard Practice for Description and Identification of Soils (ASTM D-2488)			ATD = At time of drilling Static water level (date)			
			BGS = below ground surface			

Classifications of soils in this report are based on visual field and/or laboratory observations, which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field or laboratory testing unless presented herein. Visual-manual and/or laboratory classification methods of ASTM D-2487 and D-2488 were used as an identification guide for the Unified Soil Classification System.

	Exploration Log Key		DATE:	PROJECT NO.
			DESIGNED BY:	
			DRAWN BY:	FIGURE NO.
			REVISED BY:	A-1



Metal Finishing - 160157

Boring Log

Project Address & Site Specific Location

4000 88th Street NE Marysville, WA 98270, SE 1/4 of building

Coordinates

NA

Exploration Number

IB-1

Contractor

Holocene

Equipment

Jackhammer

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Kevin

Exploration Method(s)

Direct push

Work Start/Completion Dates

10/18/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Concrete patch				Concrete		
1			IB-1-1			Moist, light brown, gravelly, silty SAND (SM); fine to medium sand.		1
2						Moist, light brown, silty SAND (SM); fine sand, trace rootlets.		2
3		Borehole backfilled with bentonite chips	IB-1-3					3
4								4
5			IB-1-5			Moist, light gray-light gray SAND (SP); fine to medium sand.		5
6						Bottom of exploration at 6 ft. bgs.		6

Legend

- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB

Boring Log
IB-1

Sheet 1 of 1



Metal Finishing - 160157

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, Center of chem processing line

Boring Log

Coordinates

NA

Exploration Number

IB-2

Contractor

Holocene

Equipment

Jackhammer

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Kevin

Exploration Method(s)

Direct push

Work Start/Completion Dates

10/18/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Concrete patch				Concrete		
1			IB-2-1			Moist, brown, silty SAND (SM); fine to medium sand.		1
2						Moist, light brown, slightly silty SAND (SP-SM); fine to medium sand		2
3		Borehole backfilled with bentonite chips	IB-2-3					3
4								4
5			IB-2-5					5
6						Bottom of exploration at 6 ft. bgs.		6

Legend

- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB

Boring Log
IB-2
Sheet 1 of 1



Metal Finishing - 160157

Boring Log

Project Address & Site Specific Location

Coordinates

Exploration Number

4000 88th Street NE Marysville, WA 98270, Adjacent to chem storage

NA

IB-3

Contractor

Equipment

Sampling Method

Ground Surface (GS) Elev.

Cascade

Jackhammer

Percussion hammer

NA

Operator

Exploration Method(s)

Work Start/Completion Dates

Top of Casing Elev.

Depth to Water (Below GS)

Keith

Direct push

10/18/2016

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Concrete patch				Concrete		
1			IB-3-1			Moist, dark brown, silty SAND (SM); fine sand		1
2						With rootlets		2
						Becomes light brown		
3		Borehole backfilled with bentonite chips	IB-3-3					3
4								4
5			IB-3-5					5
6								6
							Bottom of exploration at 6 ft. bgs.	

Legend

- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB

Boring Log
IB-3

Sheet 1 of 1



Metal Finishing - 160157

Project Address & Site Specific Location

4000 88th Street NE Marysville, WA 98270, In still/rectifier building

Boring Log

Coordinates

NA

Exploration Number

IB-4

Contractor

Cascade

Equipment

Jackhammer

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Keith

Exploration Method(s)

Direct push

Work Start/Completion Dates

10/18/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Concrete patch				Concrete		
1			IB-4-1		PID= 0	Moist, brown, silty GRAVEL (GM); crushed rock		1
2					PID= 0			2
3		Borehole backfilled with bentonite chips	IB-4-3		PID= 0	Moist, brown to reddish brown, silty SAND (SM); fine sand		3
4					PID= 0			4
5			IB-4-5		PID= 0			5
6					PID= 0	Moist, gray to brown, SAND (SP); fine to medium sand		6
					PID= 0			
							Bottom of exploration at 6 ft. bgs.	

Legend

- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB

Boring Log
IB-4

Sheet 1 of 1

**Metal Finishing - 160157****Boring Log**

Project Address & Site Specific Location

4000 88th Street NE Marysville, WA 98270, North of shop, in road.

Coordinates

NA

Exploration Number

SB-01

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							Moist, brown, silty SAND (SM); fine to medium sand	
		Borehole backfilled with bentonite chips			PID= 0			
5							Moist, gray SAND (SP); fine to medium sand, trace silt, trace gravel	5
					PID= 0			
10							Becomes medium to coarse sand	10
					PID= 0			
15							Bottom of exploration at 15 ft. bgs.	15

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Boring Log**
SB-01

Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, North of shop, outside
garage entrance.

Boring Log

Coordinates

NA

Exploration Number

SB-02

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Borehole backfilled with bentonite chips		SB-2-1.5-2- 081716 PP Metals, (Cr VI)	PID= 0		Moist, brown, silty SAND (SM); fine to medium sand	
5					PID= 0		Moist, gray SAND (SP); medium sand, trace silt	5
10					PID= 0		Moist, gray-brown, slightly sandy SILT (ML)	10
15					PID= 0		Moist, gray SAND (SP); medium to coarse sand, trace silt	15
							Bottom of exploration at 15 ft. bgs.	

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab Sample

Water
Level

No Water Encountered

See Exploration Log Key for
explanation of symbolsLogged by: ECS
Approved by: CEB**Boring Log****SB-02**
Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, North of shop, outside fence.

Boring Log

Coordinates

NA

Exploration Number

SB-03

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		Borehole backfilled with bentonite chips		SB-3-1.5-2-081716 PP Metals	PID= 0		Moist, brown, silty SAND (SM); fine to medium sand	
5							Moist, gray, SAND (SP); fine to medium sand, trace silt	5
					PID= 0		Becomes medium to coarse sand	
10					PID= 0		Becomes fine to medium sand, trace silt, trace gravel	10
15							Bottom of exploration at 15 ft. bgs.	15

Legend

- No Soil Sample Recovery
- ▨ Continuous core 1.85" ID
- ✎ Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Boring Log
SB-03**

Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location

4000 88th Street NE Marysville, WA 98270, Northwest of shop.

Boring Log

Coordinates

NA

Exploration Number

SB-04

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							Moist, brown, silty SAND (SM); fine to medium sand	
		Borehole backfilled with bentonite chips		SB-4-1.5-2-081716 PP metals	PID= 0		Moist, gray SAND (SP); fine to medium sand, trace silt	
5								5
							Becomes medium to coarse sand	
10					PID= 0			10
15					PID= 0			15
							Bottom of exploration at 15 ft. bgs.	

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Boring Log****SB-04**
Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, West of shop, outside fence.

Boring Log

Coordinates

NA

Exploration Number

SB-05

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							Moist, brown, silty SAND (SM); fine to medium sand	
		Borehole backfilled with bentonite chips		SB-5-1.5-2-081716 PP metals	PID= 0		Moist, gray SAND (SP); fine to medium sand, trace silt	
5								5
					PID= 0		Iron oxide staining 7-8.5 ft bgs	
10							Becomes fine to coarse sand	10
					PID= 0			
15							Bottom of exploration at 15 ft. bgs.	15

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Boring Log****SB-05**
Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, Near southwest corner of shop.

Boring Log

Coordinates

NA

Exploration Number

SB-06

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							Moist, brown silty SAND (SM); fine to medium sand	
		Borehole backfilled with bentonite chips		SB-6-1.5-2-081716 PP metals	PID= 0		Moist, gray SAND (SP); fine to medium sand, trace silt	
5								5
					PID= 0			
10								10
					PID= 0			
15							Bottom of exploration at 15 ft. bgs.	15

Legend

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Boring Log
SB-06**

Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, West of shop, in gravel driveway.

Boring Log

Coordinates

NA

Exploration Number

SB-07

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							Moist, brown silty SAND (SM); fine to medium sand	
		Borehole backfilled with bentonite chips			PID= 0			
5							Moist, gray SAND (SP); fine to medium sand, trace silt	5
					PID= 0			
10							Iron oxide staining	
							Becomes fine to coarse sand.	10
					PID= 0			
15							Bottom of exploration at 15 ft. bgs.	15

Legend

- No Soil Sample Recovery
- ▨ Continuous core 1.85" ID
- ✎ Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Boring Log**
SB-07

Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, South side of road
between shop and tannery.

Boring Log

Coordinates

NA

Exploration Number

SB-08

Contractor

ESN Northwest

Equipment

Direct push rig

Sampling Method

Percussion hammer

Ground Surface (GS) Elev.

NA

Operator

Brian

Exploration Method(s)

Direct push

Work Start/Completion Dates

8/17/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							Moist, brown silty SAND (SM); fine to medium sand	
							Moist, gray SAND (SP); fine to medium sand, trace silt	
		Borehole backfilled with bentonite chips		SB-8-1.5-2- 081716 PP metals	PID= 0		Becomes medium to coarse sand	
5								5
					PID= 0			
10								10
					PID= 0			
15								15
							Bottom of exploration at 15 ft. bgs.	

Legend

- No Soil Sample Recovery
- ▨ Continuous core 1.85" ID
- ✎ Grab Sample

Water
Level

No Water Encountered

See Exploration Log Key for
explanation of symbolsLogged by: ECS
Approved by: CEB**Boring Log
SB-08**

Sheet 1 of 1

**Metal Finishing - 160157**Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, 100 ft SW of SW corner of bldg**Boring Log**

Coordinates

NA

Exploration Number

SB-09

Contractor

Holocene

Equipment

Mobile B59 rotary truck mount

Sampling Method

Autohammer; 140 lb hammer; 30" drop

Ground Surface (GS) Elev.

NA

Operator

Kevin

Exploration Method(s)
8.5-in OD Hollow-stem Auger

Work Start/Completion Dates

10/11/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)
24.6' (Static)
25' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5		Borehole backfilled with bentonite chips	S1		SPT= 5, 6, 7 PID= 0 PID= 0 PID= 0		Topsoil; forest duff.	5
10			S2		SPT= 8, 12, 11 PID= 0 PID= 0 PID= 0		Medium dense, moist, gray-brown, slightly silty SAND (SP-SM); fine to medium sand, trace coarse sand.	10
15			S3	SB-09-16 VOCs, SVOCs, PP metals, Cr VI	SPT= 7, 7, 9 PID= 0 PID= 0 PID= 0		Medium dense, moist, gray SAND (SP); fine to medium sand, predominantly fine	15
20			S4		SPT= 7, 10, 13 PID= 0 PID= 0 PID= 0		Becomes fine sand, trace silt	20
25		10/11/2016 10/11/2016	S5	SB-09-26 SB-09-10112016 VOCs, SVOCs, PP metals (D), Cr V1 (D)	SPT= 6, 8, 6		Becomes wet	25
30			S6	SB-09-31	SPT= 3, 6, 11		Medium dense, wet, gray, silty SAND (SM); fine sand	30
							Bottom of exploration at 31.5 ft. bgs.	

Legend

Split Barrel 2" X 1.375" (SPT)

Water Level

Static Water Level

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB**Boring Log****SB-09**

Sheet 1 of 1



Metal Finishing - 160157

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, 20 ft W of SW corner of bldg

Boring Log

Coordinates

NA

Exploration Number

SB-10

Contractor

Holocene

Equipment

Mobile B59 rotary truck mount

Sampling Method

Autohammer; 140 lb hammer; 30" drop

Ground Surface (GS) Elev.

NA

Operator

Kevin

Exploration Method(s)
8.5-in OD Hollow-stem Auger

Work Start/Completion Dates

10/11/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)
22.8' (ATD)
25' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5			S1	SB-10-6	SPT= 3,6,8 PID= 0 PID= 0 PID= 0		Topsoil Medium dense, moist, light brown, silty SAND (SM); fine to medium grained sand, trace coarse sand.	5
10		Borehole backfilled with bentonite chips	S2	SB-10-11	SPT= 7,9,9 PID= 0 PID= 0 PID= 0		Medium dense, moist, light gray-brown, SAND (SP); fine to medium grained sand.	10
15			S3	SB-10-16 VOCs, SVOC, PP metals	SPT= 7,10,10 PID= 0 PID= 0 PID= 0			15
20			S4	SB-10-21	SPT= 9,10,12 PID= 0 PID= 0 PID= 0		Medium dense, moist, light brown, slightly silty SAND (SP-SM)	20
25		10/11/2016	S5	SB-10-26 SB-10-10112016 VOCs, SVOCs, PP metals (D), Cr V1 (D)	SPT= 5,7,8		Becomes wet and gray-brown	25
30		10/11/2016	S6	SB-10-31	SPT= 5,6,8		4-6 inch beds light brown and dark brown sand	30
							Bottom of exploration at 31.5 ft. bgs.	

Legend

Split Barrel 2" X 1.375" (SPT)

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB

Boring Log

SB-10
Sheet 1 of 1



Metal Finishing - 160157

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, 10 ft W of still/recifier shed

Boring Log

Coordinates

NA

Exploration Number

SB-11

Contractor

Holocene

Equipment

Mobile B59 rotary. truck mount

Sampling Method

Autohammer; 140 lb hammer; 30" drop

Ground Surface (GS) Elev.

NA

Operator

Kevin

Exploration Method(s)
8.5-in OD Hollow-stem Auger

Work Start/Completion Dates

10/11/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

25' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5		Borehole backfilled with bentonite chips	S1	SB-11-6	SPT= 3,6,8 PID= 0 PID= 0 PID= 0	GRAVEL (GP); crushed rock	Medium dense, moist, light brown, silty SAND (SM); fine grained sand.	5
10			S2	SB-11-11	SPT= 7,9,9 PID= 0 PID= 0 PID= 0		Medium dense, moist, light brown SAND (SP); fine to medium grained sand.	10
15			S3	SB-11-16 VOCs, SVOC, PP metals, Cr VI	SPT= 7,10,10 PID= 0 PID= 0 PID= 0			15
20			S4	SB-11-21	SPT= 9,10,12 PID= 0 PID= 0 PID= 0		Medium dense, moist, light brown silty SAND (SM); fine grained sand. 1 inch bed of silt	20
25		10/11/2016	S5	SB-11-10112016 VOCs, SVOCs, PP metals (D), Cr V1 (D)	SPT= 5,7,8		Medium dense, wet, brown, slightly silty SAND (SP-SM); fine to medium grained sand.	25
30			S6		SPT= 5, 7, 12		Medium dense, wet, brown, silty SAND (SM); fine to medium grained sand. Becomes very silty Bottom of exploration at 31.5 ft. bgs.	30

Legend

Split Barrel 2" X 1.375" (SPT)

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB

Boring Log
SB-11
Sheet 1 of 1

**Metal Finishing - 160157**Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, 20 ft NE of NE corner of bldg**Boring Log**

Coordinates

NA

Exploration Number

SB-12

Contractor

Holocene

Equipment

Mobile B59 rotary truck mount

Sampling Method

Autohammer; 140 lb hammer; 30" drop

Ground Surface (GS) Elev.

NA

Operator

Kevin

Exploration Method(s)
8.5-in OD Hollow-stem Auger

Work Start/Completion Dates

10/12/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

20' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
5		Borehole backfilled with bentonite chips	S1	SB-12-6	SPT= 2,2,2 PID= 3 PID= 3 PID= 10		GRAVEL (GP); crushed rock Loose, moist, light brown, SAND (SP); fine grained sand. Trace roots	5
10			S2	SB-12-11	SPT= 4,6,7 PID= 0 PID= 0 PID= 0		Becomes light brown-gray, very fine sand	10
15			S3	SB-12-16 VOCs, SVOC, PP metals, Cr VI	SPT= 4,7,8 PID= 0 PID= 0 PID= 0		Becomes light-gray, fine to medium sand	15
20		10/12/2016	S4	SB-12-10122016 VOCs, SVOCs, PP metals (D), Cr V1 (D) SB-12-21	SPT= 4,6,5 PID= 0 PID= 0 PID= 0		Medium dense, wet, brown, slightly silty SAND (SP-SM); fine to medium grained sand.	20
25			S5		SPT= 8,12,14		Becomes gray	25
30							Bottom of exploration at 26.5 ft. bgs.	30

Legend

Split Barrel 2" X 1.375" (SPT)

Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: Mv
Approved by: CEB**Boring Log****SB-12**
Sheet 1 of 1

**Metal Finishing - 160157****Test Pit Log**

Project Address & Site Specific Location

4000 88th Street NE Marysville, WA 98270, West of shop.

Coordinates

NA

Exploration Number

TP-1

Contractor

Clear Creek Contractors

Equipment

Excavator or Backhoe

Sampling Method

Grab

Ground Surface (GS) Elev.

NA

Operator

Exploration Method(s)

Backhoe or trackhoe

Work Start/Completion Dates

8/15/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1		Test pit backfilled with excavated soil.					Moist, brown, slightly silty SAND (SP-SM); fine to medium sand	1
2					PID= 0			2
3							Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt	3
4								4
5					PID= 0			5
6							Bottom of exploration at 6 ft. bgs.	6

Legend Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Test Pit Log****TP-1**

Sheet 1 of 1

**Metal Finishing - 160157**

Project Address & Site Specific Location

4000 88th Street NE Marysville, WA 98270, Southwest of shop.

Test Pit Log

Coordinates

NA

Exploration Number

TP-2

Contractor

Clear Creek Contractors

Equipment

Excavator or Backhoe

Sampling Method

Grab

Ground Surface (GS) Elev.

NA

Operator

Exploration Method(s)

Backhoe or trackhoe

Work Start/Completion Dates

8/15/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1		Test pit backfilled with excavated soil.		PP Metals, Cr (VI)	PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand, white PVC pipe at 3.5 feet bgs	1
2								2
3								3
4				PP Metals, Cr (VI), TPH, HVOCs	PID= 0		Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt	4
5								5
6								6
							Bottom of exploration at 6 ft. bgs.	

Legend Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Test Pit Log
TP-2**

Sheet 1 of 1

**Metal Finishing - 160157***Project Address & Site Specific Location*

4000 88th Street NE Marysville, WA 98270, Southwest of shop.

Test Pit Log*Coordinates*

NA

*Exploration Number***TP-3***Contractor*

Clear Creek Contractors

Equipment

Excavator or Backhoe

Sampling Method

Grab

Ground Surface (GS) Elev.

NA

*Operator**Exploration Method(s)*

Backhoe or trackhoe

Work Start/Completion Dates

8/15/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)	
1		Test pit backfilled with excavated soil.			PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand	1	
2									2
3									3
4							Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt	4	
5						PID= 0		5	
6								Bottom of exploration at 6 ft. bgs.	6

Legend Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Test Pit Log
TP-3**

Sheet 1 of 1

		Metal Finishing - 160157				Test Pit Log			
		<i>Project Address & Site Specific Location</i> 4000 88th Street NE Marysville, WA 98270, North side of road between shop and tannery.				<i>Coordinates</i> NA		<i>Exploration Number</i> TP-4	
<i>Contractor</i> Clear Creek Contractors		<i>Equipment</i> Excavator or Backhoe		<i>Sampling Method</i> Grab		<i>Ground Surface (GS) Elev.</i> NA		No Water Encountered	
<i>Operator</i>		<i>Exploration Method(s)</i> Backhoe or trackhoe		<i>Work Start/Completion Dates</i> 8/15/2016		<i>Top of Casing Elev.</i> NA			
Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description		Depth (ft)
1		Test pit backfilled with excavated soil.			PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand, roots		1
2									2
3							Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt		3
4									4
5									5
6							Bottom of exploration at 6 ft. bgs.		6

Legend

Grab Sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS

Approved by: CEB

Test Pit Log

TP-4

Sheet 1 of 1

ASPECT STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\METAL FINISHING-160157.GPJ December 5, 2016

		Metal Finishing - 160157 <i>Project Address & Site Specific Location</i> 4000 88th Street NE Marysville, WA 98270, North side of road between shop and tannery.				Test Pit Log	
						Coordinates NA	Exploration Number TP-5
Contractor Clear Creek Contractors		Equipment Excavator or Backhoe	Sampling Method Grab		Ground Surface (GS) Elev. NA		Depth to Water (Below GS) No Water Encountered
Operator		Exploration Method(s) Backhoe or trackhoe	Work Start/Completion Dates 8/15/2016		Top of Casing Elev. NA		

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1		Test pit backfilled with excavated soil.		PP Metals, Cr (VI)	PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand, roots	1
2							Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt	2
3								3
4								4
5								5
6								6
							Bottom of exploration at 6 ft. bgs.	

Legend  Grab Sample	No Water Encountered	See Exploration Log Key for explanation of symbols Logged by: ECS Approved by: CEB	Test Pit Log TP-5 Sheet 1 of 1

ASPECT STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\METAL FINISHING-160157.GPJ December 5, 2016

**Metal Finishing - 160157****Test Pit Log**

Project Address & Site Specific Location
4000 88th Street NE Marysville, WA 98270, North side of road between
shop and tannery.

Coordinates

NA

Exploration Number

TP-6

Contractor

Clear Creek Contractors

Equipment

Excavator or Backhoe

Sampling Method

Grab

Ground Surface (GS) Elev.

NA

Operator

Exploration Method(s)

Backhoe or trackhoe

Work Start/Completion Dates

8/15/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1		Test pit backfilled with excavated soil.		PP Metals	PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand, roots	1
2								
3							Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt	3
4								4
5				PP Metals, Cr (VI), TPH, HVOCs	PID= 0			5
6							Bottom of exploration at 6 ft. bgs.	6

Legend

Grab Sample

Water
Level

No Water Encountered

See Exploration Log Key for
explanation of symbolsLogged by: ECS
Approved by: CEB**Test Pit Log
TP-6**

Sheet 1 of 1

		Metal Finishing - 160157 <i>Project Address & Site Specific Location</i> 4000 88th Street NE Marysville, WA 98270, East of tannery.				Test Pit Log <i>Coordinates</i> NA			<i>Exploration Number</i> TP-7	
		<i>Contractor</i> Clear Creek Contractors		<i>Equipment</i> Excavator or Backhoe		<i>Sampling Method</i> Grab		<i>Ground Surface (GS) Elev.</i> NA		<i>Depth to Water (Below GS)</i> No Water Encountered
<i>Operator</i>		<i>Exploration Method(s)</i> Backhoe or trackhoe		<i>Work Start/Completion Dates</i> 8/15/2016		<i>Top of Casing Elev.</i> NA				
Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description			Depth (ft)
1		Test pit backfilled with excavated soil.			PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand, roots			1
2							Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt			2
3										3
4										4
5										5
6							Bottom of exploration at 6 ft. bgs.			6
Legend  Grab Sample		No Water Encountered		See Exploration Log Key for explanation of symbols Logged by: ECS Approved by: CEB			Test Pit Log TP-7 Sheet 1 of 1			

ASPECT STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\METAL FINISHING-160157.GPJ December 5, 2016

**Metal Finishing - 160157****Test Pit Log**

Project Address & Site Specific Location

4000 88th Street NE Marysville, WA 98270, West of shop.

Coordinates

NA

Exploration Number

TP-8

Contractor

Clear Creek Contractors

Equipment

Excavator or Backhoe

Sampling Method

Grab

Ground Surface (GS) Elev.

NA

Operator

Exploration Method(s)

Backhoe or trackhoe

Work Start/Completion Dates

8/15/2016

Top of Casing Elev.

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1		Test pit backfilled with excavated soil.			PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand	1
2					PID= 0			2
3					PID= 0		Silty sand mixed with paper and plastic debris, garbage-like odor, 3-3.5 ft bgs.	3
4							Moist, gray, slightly gravelly SAND (SP); medium sand, trace silt	4
5					PID= 0			5
6							Bottom of exploration at 6 ft. bgs.	6

Legend

Grab Sample

Water Level

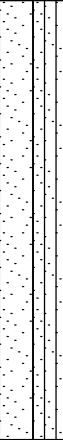
No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ECS
Approved by: CEB**Test Pit Log****TP-8**

Sheet 1 of 1

		Metal Finishing - 160157				Test Pit Log			
		<i>Project Address & Site Specific Location</i> 4000 88th Street NE Marysville, WA 98270, South of shop.				<i>Coordinates</i> NA		<i>Exploration Number</i> TP-9	
<i>Contractor</i> Clear Creek Contractors		<i>Equipment</i> Excavator or Backhoe		<i>Sampling Method</i> Grab		<i>Ground Surface (GS) Elev.</i> NA		TP-9	
<i>Operator</i> 		<i>Exploration Method(s)</i> Backhoe or trackhoe		<i>Work Start/Completion Dates</i> 8/15/2016		<i>Top of Casing Elev.</i> NA			
								<i>Depth to Water (Below GS)</i> No Water Encountered	

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
1		 Test pit backfilled with excavated soil.		PP Metals	PID= 0		Moist, brown slightly silty SAND (SP-SM); fine to medium sand	1
2								
3								3
4								4
5				PP Metals, TPH, HVOCs	PID= 0			5
6							Bottom of exploration at 6 ft. bgs.	6

Legend  Grab Sample	Water Level 	No Water Encountered	See Exploration Log Key for explanation of symbols Logged by: ECS Approved by: CEB	Test Pit Log TP-9 Sheet 1 of 1

ATTACHMENT B

Laboratory Analytical Reports



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

August 30, 2016

Carla Brock
Aspect Consulting
401 2nd Avenue South, Suite 201
Seattle, WA 98104

Re: Analytical Data for Project 160157
Laboratory Reference No. 1608-210

Dear Carla:

Enclosed are the analytical results and associated quality control data for samples submitted on August 16, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 30, 2016
Samples Submitted: August 16, 2016
Laboratory Reference: 1608-210
Project: 160157

Case Narrative

Samples were collected on August 15, 2016 and received by the laboratory on August 16, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH Gx/BTEX and Halogenated Volatiles EPA 8260C Analysis

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

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: August 30, 2016
 Samples Submitted: August 16, 2016
 Laboratory Reference: 1608-210
 Project: 160157

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: TP-2-5'						
Laboratory ID:	08-210-04					
Benzene	ND	0.020	EPA 8021B	8-23-16	8-23-16	
Toluene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
Ethyl Benzene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
m,p-Xylene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
o-Xylene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
Gasoline	ND	4.1	NWTPH-Gx	8-23-16	8-23-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	68-129				
Client ID: TP-5-5'						
Laboratory ID:	08-210-10					
Benzene	ND	0.020	EPA 8021B	8-23-16	8-23-16	
Toluene	ND	0.043	EPA 8021B	8-23-16	8-23-16	
Ethyl Benzene	ND	0.043	EPA 8021B	8-23-16	8-23-16	
m,p-Xylene	ND	0.043	EPA 8021B	8-23-16	8-23-16	
o-Xylene	ND	0.043	EPA 8021B	8-23-16	8-23-16	
Gasoline	ND	4.3	NWTPH-Gx	8-23-16	8-23-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	68-129				
Client ID: TP-6-5'						
Laboratory ID:	08-210-12					
Benzene	ND	0.020	EPA 8021B	8-23-16	8-23-16	
Toluene	ND	0.039	EPA 8021B	8-23-16	8-23-16	
Ethyl Benzene	ND	0.039	EPA 8021B	8-23-16	8-23-16	
m,p-Xylene	ND	0.039	EPA 8021B	8-23-16	8-23-16	
o-Xylene	ND	0.039	EPA 8021B	8-23-16	8-23-16	
Gasoline	ND	3.9	NWTPH-Gx	8-23-16	8-23-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	96	68-129				



Date of Report: August 30, 2016
 Samples Submitted: August 16, 2016
 Laboratory Reference: 1608-210
 Project: 160157

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-9-5'					
Laboratory ID:	08-210-19					
Benzene	ND	0.020	EPA 8021B	8-23-16	8-23-16	
Toluene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
Ethyl Benzene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
m,p-Xylene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
o-Xylene	ND	0.041	EPA 8021B	8-23-16	8-23-16	
Gasoline	ND	4.1	NWTPH-Gx	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>89</i>	<i>68-129</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 16, 2016
 Laboratory Reference: 1608-210
 Project: 160157

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
Benzene	ND	0.020	EPA 8021B	8-23-16	8-23-16	
Toluene	ND	0.050	EPA 8021B	8-23-16	8-23-16	
Ethyl Benzene	ND	0.050	EPA 8021B	8-23-16	8-23-16	
m,p-Xylene	ND	0.050	EPA 8021B	8-23-16	8-23-16	
o-Xylene	ND	0.050	EPA 8021B	8-23-16	8-23-16	
Gasoline	ND	5.0	NWTPH-Gx	8-23-16	8-23-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	68-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-278-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	10.2	10.4	NA	NA	NA	2	30	
Surrogate:								
Fluorobenzene				92	94	68-129		

SPIKE BLANKS

Laboratory ID:	SB0823S1									
	SB	SBD	SB	SBD	SB	SBD				
Benzene	0.934	0.988	1.00	1.00	93	99	76-124	6	17	
Toluene	0.942	0.990	1.00	1.00	94	99	78-124	5	16	
Ethyl Benzene	0.950	0.999	1.00	1.00	95	100	77-123	5	17	
m,p-Xylene	0.964	1.01	1.00	1.00	96	101	78-124	5	17	
o-Xylene	0.950	0.996	1.00	1.00	95	100	76-123	5	18	
Surrogate:										
Fluorobenzene					94	97	68-129			



Date of Report: August 30, 2016
 Samples Submitted: August 16, 2016
 Laboratory Reference: 1608-210
 Project: 160157

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-2-5'					
Laboratory ID:	08-210-04					
Diesel Range Organics	ND	26	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	ND	51	NWTPH-Dx	8-23-16	8-24-16	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	70	50-150				

Client ID:	TP-5-5'					
Laboratory ID:	08-210-10					
Diesel Range Organics	ND	26	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	91	52	NWTPH-Dx	8-23-16	8-24-16	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	71	50-150				

Client ID:	TP-6-5'					
Laboratory ID:	08-210-12					
Diesel Range Organics	ND	26	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	ND	51	NWTPH-Dx	8-23-16	8-24-16	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	59	50-150				

Client ID:	TP-9-5'					
Laboratory ID:	08-210-19					
Diesel Range Organics	ND	26	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	ND	52	NWTPH-Dx	8-23-16	8-24-16	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	84	50-150				



Date of Report: August 30, 2016
 Samples Submitted: August 16, 2016
 Laboratory Reference: 1608-210
 Project: 160157

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-23-16	8-24-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	63	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags	
DUPLICATE											
Laboratory ID:	08-249-01										
	ORIG	DUP									
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA		
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA		
Surrogate:											
o-Terphenyl						78	76	50-150			



Date of Report: August 30, 2016
 Samples Submitted: August 16, 2016
 Laboratory Reference: 1608-210
 Project: 160157

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-2-5'					
Laboratory ID:	08-210-04					
Dichlorodifluoromethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0040	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0040	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0040	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0040	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-2-5'					
Laboratory ID:	08-210-04					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-5-5'					
Laboratory ID:	08-210-10					
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0038	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0038	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0038	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0038	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-5-5'					
Laboratory ID:	08-210-10					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>119</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-6-5'					
Laboratory ID:	08-210-12					
Dichlorodifluoromethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0041	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0041	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0041	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0041	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-6-5'					
Laboratory ID:	08-210-12					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-9-5'					
Laboratory ID:	08-210-19					
Dichlorodifluoromethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0037	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0037	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0037	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0037	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TP-9-5'					
Laboratory ID:	08-210-19					
1,1,2-Trichloroethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00073	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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HALOGENATED VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0823S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	



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HALOGENATED VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0823S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	RPD Limit	Flags
					Recovery						
SPIKE BLANKS											
Laboratory ID:	SB0823S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0458	0.0484	0.0500	0.0500	92	97	68-126	6		15	
Benzene	0.0464	0.0495	0.0500	0.0500	93	99	70-121	6		15	
Trichloroethene	0.0483	0.0486	0.0500	0.0500	97	97	75-120	1		15	
Toluene	0.0502	0.0496	0.0500	0.0500	100	99	80-120	1		15	
Chlorobenzene	0.0472	0.0484	0.0500	0.0500	94	97	76-120	3		15	
Surrogate:											
Dibromofluoromethane					94	100	76-131				
Toluene-d8					101	98	80-126				
4-Bromofluorobenzene					90	91	60-146				



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-03					
Client ID:	TP-2-1'					
Antimony	ND	5.4	6010C	8-25-16	8-25-16	
Arsenic	ND	11	6010C	8-25-16	8-25-16	
Beryllium	ND	0.54	6010C	8-25-16	8-25-16	
Cadmium	ND	0.54	6010C	8-25-16	8-25-16	
Chromium	41	0.54	6010C	8-25-16	8-25-16	
Copper	18	1.1	6010C	8-25-16	8-25-16	
Lead	7.6	5.4	6010C	8-25-16	8-25-16	
Mercury	ND	0.27	7471B	8-25-16	8-25-16	
Nickel	45	2.7	6010C	8-25-16	8-25-16	
Selenium	ND	11	6010C	8-25-16	8-25-16	
Silver	ND	1.1	6010C	8-25-16	8-25-16	
Thallium	ND	2.7	6020A	8-25-16	8-25-16	
Zinc	44	2.7	6010C	8-25-16	8-25-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-04					
Client ID:	TP-2-5'					
Antimony	ND	5.1	6010C	8-25-16	8-25-16	
Arsenic	ND	10	6010C	8-25-16	8-25-16	
Beryllium	ND	0.51	6010C	8-25-16	8-25-16	
Cadmium	ND	0.51	6010C	8-25-16	8-25-16	
Chromium	32	0.51	6010C	8-25-16	8-25-16	
Copper	16	1.0	6010C	8-25-16	8-25-16	
Lead	ND	5.1	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	44	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	10	6010C	8-25-16	8-25-16	
Silver	ND	1.0	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	36	2.6	6010C	8-25-16	8-25-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-09					
Client ID:	TP-5-1.5'					
Antimony	ND	5.2	6010C	8-25-16	8-25-16	
Arsenic	ND	10	6010C	8-25-16	8-25-16	
Beryllium	ND	0.52	6010C	8-25-16	8-25-16	
Cadmium	ND	0.52	6010C	8-25-16	8-25-16	
Chromium	38	0.52	6010C	8-25-16	8-25-16	
Copper	20	1.0	6010C	8-25-16	8-25-16	
Lead	ND	5.2	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	48	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	10	6010C	8-25-16	8-25-16	
Silver	ND	1.0	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	36	2.6	6010C	8-25-16	8-25-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-10					
Client ID:	TP-5-5'					
Antimony	ND	5.2	6010C	8-25-16	8-25-16	
Arsenic	ND	10	6010C	8-25-16	8-25-16	
Beryllium	ND	0.52	6010C	8-25-16	8-25-16	
Cadmium	ND	0.52	6010C	8-25-16	8-25-16	
Chromium	45	0.52	6010C	8-25-16	8-25-16	
Copper	20	1.0	6010C	8-25-16	8-25-16	
Lead	ND	5.2	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	55	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	10	6010C	8-25-16	8-25-16	
Silver	ND	1.0	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	38	2.6	6010C	8-25-16	8-25-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-11					
Client ID:	TP-6-1.5'					
Antimony	ND	5.4	6010C	8-25-16	8-25-16	
Arsenic	ND	11	6010C	8-25-16	8-25-16	
Beryllium	ND	0.54	6010C	8-25-16	8-25-16	
Cadmium	ND	0.54	6010C	8-25-16	8-25-16	
Chromium	37	0.54	6010C	8-25-16	8-25-16	
Copper	19	1.1	6010C	8-25-16	8-25-16	
Lead	ND	5.4	6010C	8-25-16	8-25-16	
Mercury	ND	0.27	7471B	8-25-16	8-25-16	
Nickel	38	2.7	6010C	8-25-16	8-25-16	
Selenium	ND	11	6010C	8-25-16	8-25-16	
Silver	ND	1.1	6010C	8-25-16	8-25-16	
Thallium	ND	2.7	6020A	8-25-16	8-25-16	
Zinc	52	2.7	6010C	8-25-16	8-25-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-12					
Client ID:	TP-6-5'					
Antimony	ND	5.1	6010C	8-25-16	8-25-16	
Arsenic	ND	10	6010C	8-25-16	8-25-16	
Beryllium	ND	0.51	6010C	8-25-16	8-25-16	
Cadmium	ND	0.51	6010C	8-25-16	8-25-16	
Chromium	54	0.51	6010C	8-25-16	8-25-16	
Copper	19	1.0	6010C	8-25-16	8-25-16	
Lead	ND	5.1	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	49	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	10	6010C	8-25-16	8-25-16	
Silver	ND	1.0	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	36	2.6	6010C	8-25-16	8-25-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-18					
Client ID:	TP-9-1.5'					
Antimony	ND	5.4	6010C	8-25-16	8-25-16	
Arsenic	ND	11	6010C	8-25-16	8-25-16	
Beryllium	ND	0.54	6010C	8-25-16	8-25-16	
Cadmium	ND	0.54	6010C	8-25-16	8-25-16	
Chromium	38	0.54	6010C	8-25-16	8-25-16	
Copper	15	1.1	6010C	8-25-16	8-25-16	
Lead	ND	5.4	6010C	8-25-16	8-25-16	
Mercury	ND	0.27	7471B	8-25-16	8-25-16	
Nickel	41	2.7	6010C	8-25-16	8-25-16	
Selenium	ND	11	6010C	8-25-16	8-25-16	
Silver	ND	1.1	6010C	8-25-16	8-25-16	
Thallium	ND	2.7	6020A	8-25-16	8-25-16	
Zinc	47	2.7	6010C	8-25-16	8-25-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-210-19					
Client ID:	TP-9-5'					
Antimony	ND	5.2	6010C	8-25-16	8-25-16	
Arsenic	ND	10	6010C	8-25-16	8-25-16	
Beryllium	ND	0.52	6010C	8-25-16	8-25-16	
Cadmium	ND	0.52	6010C	8-25-16	8-25-16	
Chromium	39	0.52	6010C	8-25-16	8-25-16	
Copper	19	1.0	6010C	8-25-16	8-25-16	
Lead	ND	5.2	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	48	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	10	6010C	8-25-16	8-25-16	
Silver	ND	1.0	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	37	2.6	6010C	8-25-16	8-25-16	



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**TOTAL METALS
 EPA 6010C/6020A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
 Date Analyzed: 8-25-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0825SH1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Thallium	6020A	ND	2.5
Zinc	6010C	ND	2.5



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**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
Date Analyzed: 8-25-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0825S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



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**TOTAL METALS
 EPA 6010C/6020A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	37.4	35.5	5	0.50	
Copper	16.2	15.4	5	1.0	
Lead	7.00	7.45	6	5.0	
Nickel	41.2	40.0	3	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Thallium	ND	ND	NA	2.5	
Zinc	40.6	38.9	4	2.5	



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**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



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**TOTAL METALS
 EPA 6010C/6020A
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	104	104	105	105	1	
Arsenic	100	102	102	106	106	4	
Beryllium	50.0	43.2	86	44.3	89	2	
Cadmium	50.0	46.9	94	47.9	96	2	
Chromium	100	122	84	124	87	2	
Copper	50.0	64.3	96	65.5	99	2	
Lead	250	228	88	232	90	2	
Nickel	100	130	89	133	92	3	
Selenium	100	93.1	93	99.7	100	7	
Silver	25.0	23.0	92	23.6	94	3	
Thallium	50.0	42.8	86	43.3	87	1	
Zinc	100	133	92	138	97	4	



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**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.449	90	0.430	86	4	



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**TOTAL METALS
 EPA 6010C/6020A
 SPIKE BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
 Date Analyzed: 8-25-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: SB0825SH1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Antimony	6010C	100	112	112
Arsenic	6010C	100	104	104
Beryllium	6010C	50.0	51.2	102
Cadmium	6010C	50.0	50.2	100
Chromium	6010C	100	101	101
Copper	6010C	50.0	54.4	109
Lead	6010C	250	242	97
Nickel	6010C	100	103	103
Selenium	6010C	100	111	111
Silver	6010C	25.0	25.9	103
Thallium	6020A	50.0	48.8	98
Zinc	6010C	100	102	102



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**TOTAL MERCURY
EPA 7471B
SPIKE BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
Date Analyzed: 8-25-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0825S1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Mercury	7471B	0.500	0.428	86



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**SOLUBLE HEXAVALENT CHROMIUM
 WATER EXTRACTION
 EPA 7196A**

Matrix: Soil
 Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: 08-210-03						
Client ID: TP-2-1'						
Hexavalent Chromium	ND	1.1	7196A mod	8-30-16	8-30-16	
Lab ID: 08-210-09						
Client ID: TP-5-1.5'						
Hexavalent Chromium	ND	1.0	7196A mod	8-30-16	8-30-16	



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**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0830S2

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A mod	ND	1.0



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Laboratory Reference: 1608-210
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-210-09

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	1.0	



Date of Report: August 30, 2016
Samples Submitted: August 16, 2016
Laboratory Reference: 1608-210
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-210-09

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	5.00	3.98	80	3.91	78	2	



Date of Report: August 30, 2016
Samples Submitted: August 16, 2016
Laboratory Reference: 1608-210
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
SPIKE BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0830S2

Analyte	Method	Spike Level	SB	Percent Recovery
Hexavalent Chromium	7196A mod	5.00	5.35	107



Date of Report: August 30, 2016
Samples Submitted: August 16, 2016
Laboratory Reference: 1608-210
Project: 160157

% MOISTURE

Date Analyzed: 8-24-16

Client ID	Lab ID	% Moisture
TP-2-1'	08-210-03	8
TP-2-5'	08-210-04	3
TP-5-1.5'	08-210-09	4
TP-5-5'	08-210-10	4
TP-6-1.5'	08-210-11	7
TP-6-5'	08-210-12	2
TP-9-1.5'	08-210-18	8
TP-9-5'	08-210-19	3





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





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Environmental Inc.

Analytical Laboratory Testing Services
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Chain of Custody

Page 2 of 2

Company: Aspect		Turnaround Request (in working days) (Check One)		Laboratory Number: 08-210																					
Project Number: 160157		☐ Same Day ☐ 1 Day																							
Project Name: Metal Finishing, Inc		☐ 2 Days ☐ 3 Days																							
Project Manager: Carla Brock		☒ Standard (7 Days) (RPH analysis 5 Days)																							
Sampled by: Eric Schellenger		☐ (other)																							
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers																				
11	TP-6-1.5'	8/15/16	11:50	soil	1	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / ☐ SO ₂ 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 MICA Metals Priority Pollutant	TCLP Metals	HEM (oil and grease) 1664A	HOLD	Hex chromium	% Moisture
12	TP-6-5'	8/15/16	11:54	soil	5	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
13	TP-7-1.5'	8/15/16	12:33p	soil	1	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
14	TP-7-5'	8/15/16	12:38p	soil	5	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
15	TP-8-1.5'	8/15/16	1:09p	soil	1	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
16	TP-8-3-3.5'	8/15/16	1:18p	soil	1	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
17	TP-8-5'	8/15/16	1:20p	soil	5	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
18	TP-9-1.5'	8/15/16	1:50p	soil	1	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
19	TP-9-5'	8/15/16	1:53p	soil	5	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Signature: <i>[Signature]</i>		Company: Aspect		Date: 8/15/16	Time: 5:30 PM	Comments/Special Instructions																			
Relinquished		Relinquished		Relinquished																					
Received		Received		Received																					
Relinquished		Relinquished		Relinquished																					
Received		Received		Received																					
Relinquished		Relinquished		Relinquished																					
Received		Received		Received																					
Relinquished		Relinquished		Relinquished																					
Received		Received		Received																					
Relinquished		Relinquished		Relinquished																					
Reviewed/Date		Reviewed/Date		Reviewed/Date		Chromatograms with final report ☐ Level III ☐ Level IV ☐																			



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

August 30, 2016

Carla Brock
Aspect Consulting
401 2nd Avenue South, Suite 201
Seattle, WA 98104

Re: Analytical Data for Project 160157
Laboratory Reference No. 1608-234

Dear Carla:

Enclosed are the analytical results and associated quality control data for samples submitted on August 17, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

Case Narrative

Samples were collected on August 17, 2016 and received by the laboratory on August 17, 2016. 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: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-234-04					
Client ID:	SB-2 18-24"					
Antimony	ND	5.3	6010C	8-25-16	8-25-16	
Arsenic	ND	11	6010C	8-25-16	8-25-16	
Beryllium	ND	0.53	6010C	8-25-16	8-25-16	
Cadmium	ND	0.53	6010C	8-25-16	8-25-16	
Chromium	32	0.53	6010C	8-25-16	8-25-16	
Copper	17	1.1	6010C	8-25-16	8-25-16	
Lead	ND	5.3	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	42	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	11	6010C	8-25-16	8-25-16	
Silver	ND	1.1	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	35	2.6	6010C	8-25-16	8-25-16	



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-234-07					
Client ID:	SB-3 18-24"					
Antimony	ND	5.3	6010C	8-25-16	8-25-16	
Arsenic	ND	11	6010C	8-25-16	8-25-16	
Beryllium	ND	0.53	6010C	8-25-16	8-25-16	
Cadmium	ND	0.53	6010C	8-25-16	8-25-16	
Chromium	40	0.53	6010C	8-25-16	8-25-16	
Copper	21	1.1	6010C	8-25-16	8-25-16	
Lead	ND	5.3	6010C	8-25-16	8-25-16	
Mercury	ND	0.27	7471B	8-25-16	8-25-16	
Nickel	44	2.7	6010C	8-25-16	8-25-16	
Selenium	ND	11	6010C	8-25-16	8-25-16	
Silver	ND	1.1	6010C	8-25-16	8-25-16	
Thallium	ND	2.7	6020A	8-25-16	8-25-16	
Zinc	41	2.7	6010C	8-25-16	8-25-16	



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-234-10					
Client ID:	SB-4 18-24"					
Antimony	ND	5.2	6010C	8-25-16	8-25-16	
Arsenic	ND	10	6010C	8-25-16	8-25-16	
Beryllium	ND	0.52	6010C	8-25-16	8-25-16	
Cadmium	ND	0.52	6010C	8-25-16	8-25-16	
Chromium	34	0.52	6010C	8-25-16	8-25-16	
Copper	17	1.0	6010C	8-25-16	8-25-16	
Lead	ND	5.2	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	46	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	10	6010C	8-25-16	8-25-16	
Silver	ND	1.0	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	34	2.6	6010C	8-25-16	8-25-16	



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-234-13					
Client ID:	SB-5 18-24"					
Antimony	ND	5.3	6010C	8-25-16	8-25-16	
Arsenic	ND	11	6010C	8-25-16	8-25-16	
Beryllium	ND	0.53	6010C	8-25-16	8-25-16	
Cadmium	ND	0.53	6010C	8-25-16	8-25-16	
Chromium	43	0.53	6010C	8-25-16	8-25-16	
Copper	19	1.1	6010C	8-25-16	8-25-16	
Lead	ND	5.3	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	45	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	11	6010C	8-25-16	8-25-16	
Silver	ND	1.1	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	40	2.6	6010C	8-25-16	8-25-16	



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-234-16					
Client ID:	SB-6 18-24"					
Antimony	ND	5.1	6010C	8-25-16	8-25-16	
Arsenic	ND	10	6010C	8-25-16	8-25-16	
Beryllium	ND	0.51	6010C	8-25-16	8-25-16	
Cadmium	ND	0.51	6010C	8-25-16	8-25-16	
Chromium	34	0.51	6010C	8-25-16	8-25-16	
Copper	20	1.0	6010C	8-25-16	8-25-16	
Lead	ND	5.1	6010C	8-25-16	8-25-16	
Mercury	ND	0.26	7471B	8-25-16	8-25-16	
Nickel	46	2.6	6010C	8-25-16	8-25-16	
Selenium	ND	10	6010C	8-25-16	8-25-16	
Silver	ND	1.0	6010C	8-25-16	8-25-16	
Thallium	ND	2.6	6020A	8-25-16	8-25-16	
Zinc	36	2.6	6010C	8-25-16	8-25-16	



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
 Date Analyzed: 8-25-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0825SH1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Thallium	6020A	ND	2.5
Zinc	6010C	ND	2.5



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
Date Analyzed: 8-25-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0825S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	37.4	35.5	5	0.50	
Copper	16.2	15.4	5	1.0	
Lead	7.00	7.45	6	5.0	
Nickel	41.2	40.0	3	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Thallium	ND	ND	NA	2.5	
Zinc	40.6	38.9	4	2.5	



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	104	104	105	105	1	
Arsenic	100	102	102	106	106	4	
Beryllium	50.0	43.2	86	44.3	89	2	
Cadmium	50.0	46.9	94	47.9	96	2	
Chromium	100	122	84	124	87	2	
Copper	50.0	64.3	96	65.5	99	2	
Lead	250	228	88	232	90	2	
Nickel	100	130	89	133	92	3	
Selenium	100	93.1	93	99.7	100	7	
Silver	25.0	23.0	92	23.6	94	3	
Thallium	50.0	42.8	86	43.3	87	1	
Zinc	100	133	92	138	97	4	



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-25-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-210-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.449	90	0.430	86	4	



Date of Report: August 30, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-234
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A
 SPIKE BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
 Date Analyzed: 8-25-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: SB0825SH1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Antimony	6010C	100	112	112
Arsenic	6010C	100	104	104
Beryllium	6010C	50.0	51.2	102
Cadmium	6010C	50.0	50.2	100
Chromium	6010C	100	101	101
Copper	6010C	50.0	54.4	109
Lead	6010C	250	242	97
Nickel	6010C	100	103	103
Selenium	6010C	100	111	111
Silver	6010C	25.0	25.9	103
Thallium	6020A	50.0	48.8	98
Zinc	6010C	100	102	102



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**TOTAL MERCURY
EPA 7471B
SPIKE BLANK QUALITY CONTROL**

Date Extracted: 8-25-16
Date Analyzed: 8-25-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0825S1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Mercury	7471B	0.500	0.428	86



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A**

Matrix: Soil
Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	08-234-04					
Client ID:	SB-2 18-24"					
Hexavalent Chromium	ND	1.1	7196A mod	8-30-16	8-30-16	
Lab ID:	08-234-10					
Client ID:	SB-4 18-24"					
Hexavalent Chromium	ND	1.0	7196A mod	8-30-16	8-30-16	



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0830S2

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A mod	ND	1.0



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-210-09

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	1.0	



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-210-09

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	5.00	3.98	80	3.91	78	2	



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
SPIKE BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0830S2

Analyte	Method	Spike Level	SB	Percent Recovery
Hexavalent Chromium	7196A mod	5.00	5.35	107



Date of Report: August 30, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-234
Project: 160157

% MOISTURE

Date Analyzed: 8-25-16

Client ID	Lab ID	% Moisture
SB-2 18-24"	08-234-04	5
SB-3 18-24"	08-234-07	6
SB-4 18-24"	08-234-10	4
SB-5 18-24"	08-234-13	5
SB-6 18-24"	08-234-16	3





Data Qualifiers and Abbreviations

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





MVA Onsite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3861 • www.onsite-env.com

Chain of Custody

Company: **Aspect**

Project Number: **160157**

Project Name: **Metal Finishing**

Project Manager: **Carla Brock**

Sampled by: **Eric Schellenger**

Lab ID: **Sample Identification**

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

Laboratory Number: **08-234**

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 MFOA Metals	Priority Pollutant
TCLP Metals	
HEM (oil and grease) 1664A	
Hex Chromium	
% Moisture	

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 MFOA Metals	TCLP Metals	HEM (oil and grease) 1664A	Hex Chromium	% Moisture
1	SB-1 18-24"	8/17/16	8:38	Soil	1																			
2	SB-1 7-7.5'	8/17/16	8:41	Soil	1																			
3	SB-1 11-12'	8/17/16	8:44	Soil	1																			
4	SB-2 18-24"	8/17/16	8:54	Soil	1																			
5	SB-2 7-7.5'	8/17/16	8:56	Soil	1																			
6	SB-2 12-12.5'	8/17/16	8:59	Soil	1																			
7	SB-3 18-24"	8/17/16	9:09	Soil	1																			
8	SB-3 7-7.5'	8/17/16	9:11	Soil	1																			
9	SB-3 11-12'	8/17/16	9:14	Soil	1																			
10	SB-4 18-24"	8/17/16	9:22	Soil	1																			

Signature

Company

Date

Time

Comments/Special Instructions

Eric Schellenger

Aspect

8/17/16

2:00 PM

(X) Added 8/19/16. DB3 (STA)

Spdy

"

3:35

"

"

4:30

ORC

8/17/16

1630

Relinquished

Received

Reviewed/Date

Data Package: Standard ☐ Level III ☐ Level IV ☐

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐



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Chain of Custody

Page 2 of 3

Company: <u>Aspect</u>		Turnaround Request (in working days) (Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days) (TTPH analysis 5 Days)		
Project Number: <u>160157</u>		☐ (other) _____		
Project Name: <u>Metal Finishing</u>				
Project Manager: <u>Carla Brock</u>				
Sampled by: <u>Eric Schellenger</u>				
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	SB-4 7-7.5'	8/17/16	9:24	Soil
12	SB-4 11-12'	8/17/16	9:27	Soil
13	SB-5 18-24"	8/17/16	9:34	Soil
14	SB-5 7-7.5'	8/17/16	9:37	Soil
15	SB-5 11-12'	8/17/16	9:41	Soil
16	SB-6 18-24"	8/17/16	10:04	Soil
17	SB-6 7-7.5'	8/17/16	10:07	Soil
18	SB-6 11-12'	8/17/16	10:10	Soil
19	SB-7 18-24"	8/17/16	10:18	Soil
20	SB-7 7-7.5'	8/17/16	10:20	Soil
Signature: <u>Eric Schellenger</u>		Company	Aspect	
Received		Date: <u>8/17/16</u> Time: <u>2:00 PM</u>		
Relinquished		Date: <u>8/17/16</u> Time: <u>4:30</u>		
Received		Date: <u>8/17/16</u> Time: <u>1630</u>		
Relinquished		Date: <u>8/17/16</u> Time: <u>1630</u>		
Received		Date: <u>8/17/16</u> Time: <u>1630</u>		
Relinquished		Date: <u>8/17/16</u> Time: <u>1630</u>		
Reviewed/Date		Reviewed/Date		
Reviewed/Date		Reviewed/Date		

Laboratory Number: <u>08-234</u>	
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	<u>Prior to Pollution</u>
TCLP Metals	
HEM (oil and grease) 1664A	
Hex Chromium	
% Moisture	

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐



Chain of Custody

Page 3 of 3

Company: <u>Aspect</u>							(Check One)								
Project Number: <u>160157</u>							☐ Same Day ☐ 1 Day								
							☐ 2 Days ☐ 3 Days								
Project Name: <u>Metal Finishing</u>							☒ Standard (7 Days) (TPH analysis 5 Days)								
Project Manager: <u>Carla Brack</u>															
Sampled by: <u>Eric Schellenger</u>							☐ _____ (other)								
Lab ID	Sample Identification			Date Sampled	Time Sampled	Matrix	Number of Containers								
21	SB-7 12-12.5'			8/7/16	10:22	Soil 1	NWTPH-HCID								
22	SB-8 18-24"			8/7/16	10:46	Soil 1	NWTPH-Gx/BTEX								
23	SB-8 7-7.5'			8/7/16	10:49	Soil 1	NWTPH-Gx								
24	SB-8 12-12.5'			8/7/16	10:53	Soil 1	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 MTOX Metals <u>Prior to PDN</u>								
							TCLP Metals								
							HEM (oil and grease) 1664A								
							<u>Hex-chromium</u>								
							% Moisture								

Relinquished	Signature <u>[Signature]</u>	Company <u>Aspect</u>	Date <u>8/17/16</u>	Time <u>2:00 PM</u>	Comments/Special Instructions
Received	<u>[Signature]</u>		<u>11</u>	<u>335</u>	
Relinquished	<u>11</u>		<u>11</u>	<u>430</u>	
Received	<u>[Signature]</u>		<u>8/17/16</u>	<u>1630</u>	
Relinquished					
Received					
Reviewed/Date					Data Package: Standard ☐ Level III ☐ Level IV ☐

Reviewed/Date	Reviewed/Date	Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 20, 2016

Carla Brock
Aspect Consulting
401 2nd Avenue South, Suite 201
Seattle, WA 98104

Re: Analytical Data for Project 160157
Laboratory Reference No. 1610-112

Dear Carla:

Enclosed are the analytical results and associated quality control data for samples submitted on October 12, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-112
Project: 160157

Case Narrative

Samples were collected on October 11, 2016 and received by the laboratory on October 12, 2016. 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 (soil) Analysis

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

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: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: SB-9-10112016						
Laboratory ID: 10-112-02						
Dichlorodifluoromethane	ND	0.30	EPA 8260C	10-14-16	10-14-16	
Chloromethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Acetone	ND	7.7	EPA 8260C	10-14-16	10-14-16	
Iodomethane	ND	1.3	EPA 8260C	10-14-16	10-14-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methylene Chloride	ND	2.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-14-16	10-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Butanone	ND	6.8	EPA 8260C	10-14-16	10-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroform	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Benzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Trichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Dibromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	10-14-16	10-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-14-16	10-14-16	
Toluene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	



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

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

Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: SB-9-10112016						
Laboratory ID: 10-112-02						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Hexanone	ND	3.1	EPA 8260C	10-14-16	10-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	10-14-16	10-14-16	
o-Xylene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Styrene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromoform	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Isopropylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Propylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Naphthalene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: SB-10-10112016						
Laboratory ID: 10-112-11						
Dichlorodifluoromethane	ND	0.30	EPA 8260C	10-14-16	10-14-16	
Chloromethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Acetone	ND	7.7	EPA 8260C	10-14-16	10-14-16	
Iodomethane	ND	1.3	EPA 8260C	10-14-16	10-14-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methylene Chloride	ND	2.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-14-16	10-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Butanone	ND	6.8	EPA 8260C	10-14-16	10-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroform	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Benzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Trichloroethene	0.32	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Dibromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	10-14-16	10-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-14-16	10-14-16	
Toluene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	



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

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Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-10-10112016					
Laboratory ID:	10-112-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Hexanone	ND	3.1	EPA 8260C	10-14-16	10-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	10-14-16	10-14-16	
o-Xylene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Styrene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromoform	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Isopropylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Propylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Naphthalene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: SB-11-10112016						
Laboratory ID: 10-112-17						
Dichlorodifluoromethane	ND	0.30	EPA 8260C	10-14-16	10-14-16	
Chloromethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Acetone	ND	7.7	EPA 8260C	10-14-16	10-14-16	
Iodomethane	ND	1.3	EPA 8260C	10-14-16	10-14-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methylene Chloride	ND	2.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-14-16	10-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Butanone	ND	6.8	EPA 8260C	10-14-16	10-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroform	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Benzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Trichloroethene	2.3	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Dibromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	10-14-16	10-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-14-16	10-14-16	
Toluene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	



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Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: SB-11-10112016						
Laboratory ID: 10-112-17						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Tetrachloroethene	1.5	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Hexanone	ND	3.1	EPA 8260C	10-14-16	10-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	10-14-16	10-14-16	
o-Xylene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Styrene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromoform	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Isopropylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Propylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Naphthalene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1014W1						
Dichlorodifluoromethane	ND	0.30	EPA 8260C	10-14-16	10-14-16	
Chloromethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Acetone	ND	7.7	EPA 8260C	10-14-16	10-14-16	
Iodomethane	ND	1.3	EPA 8260C	10-14-16	10-14-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methylene Chloride	ND	2.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-14-16	10-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Butanone	ND	6.8	EPA 8260C	10-14-16	10-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroform	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Benzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Trichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Dibromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	10-14-16	10-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-14-16	10-14-16	
Toluene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1014W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Hexanone	ND	3.1	EPA 8260C	10-14-16	10-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	10-14-16	10-14-16	
o-Xylene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Styrene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromoform	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Isopropylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Propylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Naphthalene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	71-131				
Toluene-d8	103	80-127				
4-Bromofluorobenzene	100	80-125				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB1014W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.3	9.82	10.0	10.0	103	98	62-132	5	20	
Benzene	9.87	9.71	10.0	10.0	99	97	75-121	2	15	
Trichloroethene	9.35	8.73	10.0	10.0	94	87	65-115	7	15	
Toluene	9.55	9.15	10.0	10.0	96	92	78-120	4	15	
Chlorobenzene	9.70	9.19	10.0	10.0	97	92	77-118	5	15	
Surrogate:										
Dibromofluoromethane					100	106	71-131			
Toluene-d8					104	102	80-127			
4-Bromofluorobenzene					98	99	80-125			



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-9-16					
Laboratory ID:	10-112-06					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.0097	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-9-16					
Laboratory ID:	10-112-06					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0019	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-11-16					
Laboratory ID:	10-112-14					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.011	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	



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 Project: 160157

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-11-16					
Laboratory ID:	10-112-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0021	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-131</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-10-16					
Laboratory ID:	10-112-16					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.011	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	



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 Project: 160157

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-10-16					
Laboratory ID:	10-112-16					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0022	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-131</i>				



Date of Report: October 20, 2016
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 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.010	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1017S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0020	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	73-134				
Toluene-d8	104	81-124				
4-Bromofluorobenzene	105	80-131				



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VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB1017S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0408	0.0404	0.0500	0.0500	82	81	66-127	1	15	
Benzene	0.0426	0.0426	0.0500	0.0500	85	85	76-122	0	15	
Trichloroethene	0.0444	0.0459	0.0500	0.0500	89	92	78-120	3	15	
Toluene	0.0443	0.0460	0.0500	0.0500	89	92	83-120	4	15	
Chlorobenzene	0.0449	0.0454	0.0500	0.0500	90	91	81-120	1	15	
Surrogate:										
Dibromofluoromethane					102	96	73-134			
Toluene-d8					99	99	81-124			
4-Bromofluorobenzene					102	98	80-131			



Date of Report: October 20, 2016
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 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-9-10112016					
Laboratory ID:	10-112-02					
n-Nitrosodimethylamine	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Pyridine	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Phenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Aniline	ND	4.9	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2-Chlorophenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,3-Dichlorobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,4-Dichlorobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Benzyl alcohol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,2-Dichlorobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270D	10-13-16	10-13-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270D	10-13-16	10-13-16	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Hexachloroethane	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Nitrobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Isophorone	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2-Nitrophenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,4-Dimethylphenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,4-Dichlorophenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Naphthalene	1.3	0.98	EPA 8270D	10-13-16	10-13-16	
4-Chloroaniline	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Hexachlorobutadiene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2-Methylnaphthalene	0.68	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	0.28	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,3-Dichloroaniline	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2-Chloronaphthalene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2-Nitroaniline	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,4-Dinitrobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Dimethylphthalate	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,3-Dinitrobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,6-Dinitrotoluene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,2-Dinitrobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Acenaphthylene	ND	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	0.98	EPA 8270D	10-13-16	10-13-16	



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SEMIVOLATILES EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-9-10112016					
Laboratory ID:	10-112-02					
2,4-Dinitrophenol	ND	4.9	EPA 8270D	10-13-16	10-13-16	
Acenaphthene	ND	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
4-Nitrophenol	ND	4.9	EPA 8270D	10-13-16	10-13-16	
2,4-Dinitrotoluene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Dibenzofuran	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,3,5,6-Tetrachlorophenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Diethylphthalate	ND	0.98	EPA 8270D	10-13-16	10-13-16	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270D	10-13-16	10-13-16	
4-Nitroaniline	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Fluorene	ND	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270D	10-13-16	10-13-16	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270D	10-13-16	10-13-16	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270D	10-13-16	10-13-16	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Hexachlorobenzene	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Pentachlorophenol	ND	4.9	EPA 8270D	10-13-16	10-13-16	
Phenanthrene	ND	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
Anthracene	ND	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
Carbazole	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Di-n-butylphthalate	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Fluoranthene	ND	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
Benzydine	ND	4.9	EPA 8270D	10-13-16	10-13-16	
Pyrene	ND	0.098	EPA 8270D/SIM	10-13-16	10-13-16	
Butylbenzylphthalate	ND	0.98	EPA 8270D	10-13-16	10-13-16	
bis-2-Ethylhexyladipate	ND	0.98	EPA 8270D	10-13-16	10-13-16	
3,3'-Dichlorobenzidine	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Benzo[a]anthracene	0.011	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
Chrysene	ND	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Di-n-octylphthalate	ND	0.98	EPA 8270D	10-13-16	10-13-16	
Benzo[b]fluoranthene	ND	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[a]pyrene	ND	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.0098	EPA 8270D/SIM	10-13-16	10-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	45	19 - 87				
Phenol-d6	34	10 - 83				
Nitrobenzene-d5	82	35 - 112				
2-Fluorobiphenyl	79	45 - 112				
2,4,6-Tribromophenol	85	37 - 115				
Terphenyl-d14	86	49 - 126				



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SEMIVOLATILES EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-10-10112016					
Laboratory ID:	10-112-11					
n-Nitrosodimethylamine	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Pyridine	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Phenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Aniline	ND	4.9	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2-Chlorophenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,3-Dichlorobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,4-Dichlorobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Benzyl alcohol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,2-Dichlorobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.99	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.99	EPA 8270D	10-13-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.99	EPA 8270D	10-13-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Hexachloroethane	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Nitrobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Isophorone	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2-Nitrophenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,4-Dimethylphenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,4-Dichlorophenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Naphthalene	0.66	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
4-Chloroaniline	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Hexachlorobutadiene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2-Methylnaphthalene	0.37	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	0.16	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,3-Dichloroaniline	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2-Chloronaphthalene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2-Nitroaniline	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,4-Dinitrobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Dimethylphthalate	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,3-Dinitrobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,6-Dinitrotoluene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,2-Dinitrobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Acenaphthylene	ND	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	0.99	EPA 8270D	10-13-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-10-10112016					
Laboratory ID:	10-112-11					
2,4-Dinitrophenol	ND	4.9	EPA 8270D	10-13-16	10-17-16	
Acenaphthene	ND	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
4-Nitrophenol	ND	4.9	EPA 8270D	10-13-16	10-17-16	
2,4-Dinitrotoluene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Dibenzofuran	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Diethylphthalate	ND	0.99	EPA 8270D	10-13-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.99	EPA 8270D	10-13-16	10-17-16	
4-Nitroaniline	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Fluorene	ND	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270D	10-13-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.99	EPA 8270D	10-13-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.99	EPA 8270D	10-13-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Hexachlorobenzene	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Pentachlorophenol	ND	4.9	EPA 8270D	10-13-16	10-17-16	
Phenanthrene	ND	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
Anthracene	ND	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
Carbazole	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Di-n-butylphthalate	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Fluoranthene	ND	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
Benzydine	ND	4.9	EPA 8270D	10-13-16	10-17-16	
Pyrene	ND	0.099	EPA 8270D/SIM	10-13-16	10-13-16	
Butylbenzylphthalate	ND	0.99	EPA 8270D	10-13-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.99	EPA 8270D	10-13-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Benzo[a]anthracene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
Chrysene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Di-n-octylphthalate	ND	0.99	EPA 8270D	10-13-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[a]pyrene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.0099	EPA 8270D/SIM	10-13-16	10-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	49	12 - 89				
Phenol-d6	37	10 - 87				
Nitrobenzene-d5	87	23 - 120				
2-Fluorobiphenyl	79	34 - 114				
2,4,6-Tribromophenol	78	18 - 148				
Terphenyl-d14	83	37 - 126				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-11-10112016					
Laboratory ID:	10-112-17					
n-Nitrosodimethylamine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Pyridine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Phenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Aniline	ND	4.7	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Chlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,3-Dichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,4-Dichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Benzyl alcohol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2-Dichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270D	10-13-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Hexachloroethane	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Nitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Isophorone	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Nitrophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4-Dimethylphenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4-Dichlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Naphthalene	0.25	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
4-Chloroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Hexachlorobutadiene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Methylnaphthalene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,3-Dichloroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Chloronaphthalene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Nitroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,4-Dinitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Dimethylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,3-Dinitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,6-Dinitrotoluene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2-Dinitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Acenaphthylene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-11-10112016					
Laboratory ID:	10-112-17					
2,4-Dinitrophenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
Acenaphthene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
4-Nitrophenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
2,4-Dinitrotoluene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Dibenzofuran	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Diethylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Nitroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Fluorene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Hexachlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Pentachlorophenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
Phenanthrene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Anthracene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Carbazole	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Di-n-butylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Fluoranthene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzydine	ND	4.7	EPA 8270D	10-13-16	10-17-16	
Pyrene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Butylbenzylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Benzo[a]anthracene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Chrysene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Di-n-octylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[a]pyrene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	12 - 89				
Phenol-d6	34	10 - 87				
Nitrobenzene-d5	74	23 - 120				
2-Fluorobiphenyl	70	34 - 114				
2,4,6-Tribromophenol	69	18 - 148				
Terphenyl-d14	76	37 - 126				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1013W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Pyridine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Phenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Aniline	ND	5.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzyl alcohol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachloroethane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Nitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Isophorone	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitrophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Naphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4-Chloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachlorobutadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chloronaphthalene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Dimethylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1013W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Acenaphthene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4-Nitrophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Dibenzofuran	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Diethylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Fluorene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Pentachlorophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Phenanthrene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Anthracene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Carbazole	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Di-n-butylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Fluoranthene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Benzidine	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Pyrene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Butylbenzylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Chrysene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Di-n-octylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	50	19 - 87				
Phenol-d6	38	10 - 83				
Nitrobenzene-d5	79	35 - 112				
2-Fluorobiphenyl	75	45 - 112				
2,4,6-Tribromophenol	85	37 - 115				
Terphenyl-d14	85	49 - 126				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

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

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1013W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	17.1	17.4	40.0	40.0	43	44	25 - 70	2	32	
2-Chlorophenol	30.8	31.8	40.0	40.0	77	80	55 - 99	3	27	
1,4-Dichlorobenzene	14.5	14.5	20.0	20.0	73	73	48 - 93	0	30	
n-Nitroso-di-n-propylamine	15.3	15.4	20.0	20.0	77	77	47 - 108	1	26	
1,2,4-Trichlorobenzene	14.8	15.1	20.0	20.0	74	76	52 - 94	2	24	
4-Chloro-3-methylphenol	32.1	32.7	40.0	40.0	80	82	67 - 108	2	16	
Acenaphthene	16.2	15.5	20.0	20.0	81	78	50 - 113	4	17	
4-Nitrophenol	16.9	16.4	40.0	40.0	42	41	29 - 78	3	37	
2,4-Dinitrotoluene	14.8	14.2	20.0	20.0	74	71	64 - 107	4	19	
Pentachlorophenol	26.5	27.3	40.0	40.0	66	68	35 - 116	3	25	
Pyrene	17.0	16.8	20.0	20.0	85	84	61 - 112	1	15	
Surrogate:										
2-Fluorophenol					56	57	19 - 87			
Phenol-d6					43	44	10 - 83			
Nitrobenzene-d5					84	86	35 - 112			
2-Fluorobiphenyl					80	79	45 - 112			
2,4,6-Tribromophenol					86	87	37 - 115			
Terphenyl-d14					89	86	49 - 126			



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-9-16					
Laboratory ID:	10-112-06					
n-Nitrosodimethylamine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.35	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	



Date of Report: October 20, 2016
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-9-16					
Laboratory ID:	10-112-06					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.35	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	63	18 - 109				
Phenol-d6	66	25 - 111				
Nitrobenzene-d5	72	22 - 113				
2-Fluorobiphenyl	66	30 - 114				
2,4,6-Tribromophenol	59	22 - 116				
Terphenyl-d14	67	33 - 114				



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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-11-16					
Laboratory ID:	10-112-14					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Naphthalene	0.018	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	0.034	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	0.020	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-11-16					
Laboratory ID:	10-112-14					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	71	18 - 109				
Phenol-d6	73	25 - 111				
Nitrobenzene-d5	80	22 - 113				
2-Fluorobiphenyl	72	30 - 114				
2,4,6-Tribromophenol	69	22 - 116				
Terphenyl-d14	72	33 - 114				



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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-10-16					
Laboratory ID:	10-112-16					
n-Nitrosodimethylamine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.35	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-10-16					
Laboratory ID:	10-112-16					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.35	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.035	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0071	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	53	18 - 109				
Phenol-d6	57	25 - 111				
Nitrobenzene-d5	61	22 - 113				
2-Fluorobiphenyl	58	30 - 114				
2,4,6-Tribromophenol	55	22 - 116				
Terphenyl-d14	60	33 - 114				



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SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1017S1						
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.33	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.17	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	



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SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.33	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[j,k]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	71	18 - 109				
Phenol-d6	74	25 - 111				
Nitrobenzene-d5	79	22 - 113				
2-Fluorobiphenyl	74	30 - 114				
2,4,6-Tribromophenol	70	22 - 116				
Terphenyl-d14	76	33 - 114				



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**SEMIVOLATILES EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-121-15										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.813	0.760	1.33	1.33	ND	61	57	25 - 99	7	36	
2-Chlorophenol	0.813	0.761	1.33	1.33	ND	61	57	21 - 104	7	38	
1,4-Dichlorobenzene	0.404	0.362	0.667	0.667	ND	61	54	20 - 110	11	40	
n-Nitroso-di-n-propylamine	0.424	0.381	0.667	0.667	ND	64	57	24 - 100	11	38	
1,2,4-Trichlorobenzene	0.406	0.357	0.667	0.667	ND	61	54	21 - 110	13	40	
4-Chloro-3-methylphenol	0.928	0.841	1.33	1.33	ND	70	63	26 - 109	10	29	
Acenaphthene	0.451	0.403	0.667	0.667	ND	68	60	33 - 99	11	30	
4-Nitrophenol	0.902	0.801	1.33	1.33	ND	68	60	21 - 107	12	29	
2,4-Dinitrotoluene	0.481	0.427	0.667	0.667	ND	72	64	20 - 106	12	30	
Pentachlorophenol	0.552	0.480	1.33	1.33	ND	42	36	20 - 113	14	31	
Pyrene	0.491	0.430	0.667	0.667	ND	74	64	24 - 115	13	28	
Surrogate:											
2-Fluorophenol						57	52	18 - 109			
Phenol-d6						62	58	25 - 111			
Nitrobenzene-d5						68	60	22 - 113			
2-Fluorobiphenyl						66	60	30 - 114			
2,4,6-Tribromophenol						70	60	22 - 116			
Terphenyl-d14						75	65	33 - 114			



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-112-02					
Client ID:	SB-9-10112016					
Antimony	ND	5.0	200.8	10-13-16	10-17-16	
Arsenic	ND	3.0	200.8	10-13-16	10-17-16	
Beryllium	ND	10	200.8	10-13-16	10-17-16	
Cadmium	ND	4.0	200.8	10-13-16	10-17-16	
Chromium	ND	10	200.8	10-13-16	10-17-16	
Copper	ND	10	200.8	10-13-16	10-17-16	
Lead	ND	1.0	200.8	10-13-16	10-17-16	
Mercury	ND	0.50	7470A	10-13-16	10-14-16	
Nickel	ND	20	200.8	10-13-16	10-17-16	
Selenium	ND	5.0	200.8	10-13-16	10-17-16	
Silver	ND	10	200.8	10-13-16	10-17-16	
Thallium	ND	5.0	200.8	10-13-16	10-17-16	
Zinc	ND	25	200.8	10-13-16	10-17-16	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-112-11					
Client ID:	SB-10-10112016					
Antimony	ND	5.0	200.8	10-13-16	10-17-16	
Arsenic	ND	3.0	200.8	10-13-16	10-17-16	
Beryllium	ND	10	200.8	10-13-16	10-17-16	
Cadmium	ND	4.0	200.8	10-13-16	10-17-16	
Chromium	ND	10	200.8	10-13-16	10-17-16	
Copper	ND	10	200.8	10-13-16	10-17-16	
Lead	ND	1.0	200.8	10-13-16	10-17-16	
Mercury	ND	0.50	7470A	10-13-16	10-14-16	
Nickel	ND	20	200.8	10-13-16	10-17-16	
Selenium	ND	5.0	200.8	10-13-16	10-17-16	
Silver	ND	10	200.8	10-13-16	10-17-16	
Thallium	ND	5.0	200.8	10-13-16	10-17-16	
Zinc	ND	25	200.8	10-13-16	10-17-16	



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-112-17					
Client ID:	SB-11-10112016					
Antimony	ND	5.0	200.8	10-13-16	10-17-16	
Arsenic	ND	3.0	200.8	10-13-16	10-17-16	
Beryllium	ND	10	200.8	10-13-16	10-17-16	
Cadmium	ND	4.0	200.8	10-13-16	10-17-16	
Chromium	ND	10	200.8	10-13-16	10-17-16	
Copper	ND	10	200.8	10-13-16	10-17-16	
Lead	1.2	1.0	200.8	10-13-16	10-17-16	
Mercury	ND	0.50	7470A	10-13-16	10-14-16	
Nickel	ND	20	200.8	10-13-16	10-17-16	
Selenium	ND	5.0	200.8	10-13-16	10-17-16	
Silver	ND	10	200.8	10-13-16	10-17-16	
Thallium	ND	5.0	200.8	10-13-16	10-17-16	
Zinc	ND	25	200.8	10-13-16	10-17-16	



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**DISSOLVED METALS
 EPA 200.8/7470A
 METHOD BLANK QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: MB1013F1

Analyte	Method	Result	PQL
Antimony	200.8	ND	5.0
Arsenic	200.8	ND	3.0
Beryllium	200.8	ND	10
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Copper	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50
Nickel	200.8	ND	20
Selenium	200.8	ND	5.0
Silver	200.8	ND	10
Thallium	200.8	ND	5.0
Zinc	200.8	ND	25



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
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 Project: 160157

**DISSOLVED METALS
 EPA 200.8/7470A
 DUPLICATE QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 10-112-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	3.0	
Beryllium	ND	ND	NA	10	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.5	
Nickel	ND	ND	NA	20	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	10	
Thallium	ND	ND	NA	5.0	
Zinc	ND	ND	NA	25	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

**DISSOLVED METALS
 EPA 200.8/7470A
 MS/MSD QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 10-112-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	200	200	100	205	102	2	
Arsenic	200	204	102	204	102	0	
Beryllium	200	197	99	200	100	1	
Cadmium	200	203	101	207	104	2	
Chromium	200	194	97	194	97	0	
Copper	200	194	97	192	96	1	
Lead	200	188	94	191	95	2	
Mercury	12.5	14.1	113	14.9	119	6	
Nickel	200	195	97	195	97	0	
Selenium	200	204	102	208	104	2	
Silver	200	187	93	188	94	0	
Thallium	200	185	92	187	94	1	
Zinc	200	221	111	218	109	2	



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 Laboratory Reference: 1610-112
 Project: 160157

**DISSOLVED METALS
 EPA 200.8/7470A
 SPIKE BLANK QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: SB1013F1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Antimony	200.8	200	204	102
Arsenic	200.8	200	209	105
Beryllium	200.8	200	200	100
Cadmium	200.8	200	205	103
Chromium	200.8	200	193	97
Copper	200.8	200	196	98
Lead	200.8	200	192	96
Mercury	7470A	12.5	12.6	101
Nickel	200.8	200	198	99
Selenium	200.8	200	215	108
Silver	200.8	200	189	95
Thallium	200.8	200	190	95
Zinc	200.8	200	211	106



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-112-06					
Client ID:	SB-9-16					
Antimony	ND	5.3	6010C	10-17-16	10-17-16	
Arsenic	ND	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.53	6010C	10-17-16	10-17-16	
Cadmium	ND	0.53	6010C	10-17-16	10-17-16	
Chromium	33	0.53	6010C	10-17-16	10-17-16	
Copper	16	1.1	6010C	10-17-16	10-17-16	
Lead	ND	5.3	6010C	10-17-16	10-17-16	
Mercury	ND	0.27	7471B	10-18-16	10-18-16	
Nickel	41	2.7	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	37	2.7	6010C	10-17-16	10-17-16	



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 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-112-14					
Client ID:	SB-11-16					
Antimony	ND	5.4	6010C	10-17-16	10-17-16	
Arsenic	ND	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.54	6010C	10-17-16	10-17-16	
Cadmium	ND	0.54	6010C	10-17-16	10-17-16	
Chromium	32	0.54	6010C	10-17-16	10-17-16	
Copper	14	1.1	6010C	10-17-16	10-17-16	
Lead	ND	5.4	6010C	10-17-16	10-17-16	
Mercury	ND	0.27	7471B	10-18-16	10-18-16	
Nickel	44	2.7	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	31	2.7	6010C	10-17-16	10-17-16	



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 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-112-16					
Client ID:	SB-10-16					
Antimony	ND	5.3	6010C	10-17-16	10-17-16	
Arsenic	ND	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.53	6010C	10-17-16	10-17-16	
Cadmium	ND	0.53	6010C	10-17-16	10-17-16	
Chromium	28	0.53	6010C	10-17-16	10-17-16	
Copper	16	1.1	6010C	10-17-16	10-17-16	
Lead	ND	5.3	6010C	10-17-16	10-17-16	
Mercury	ND	0.26	7471B	10-18-16	10-18-16	
Nickel	37	2.6	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	35	2.6	6010C	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A/7471B
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB1017SH1&MB1018S1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Thallium	6020A	ND	1.3
Zinc	6010C	ND	2.5



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	30.8	30.2	2	0.50	
Copper	14.8	14.3	3	1.0	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Nickel	38.4	38.7	1	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Thallium	ND	ND	NA	1.3	
Zinc	35.1	33.1	6	2.5	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	93.8	94	94.0	94	0	
Arsenic	100	96.6	97	97.0	97	0	
Beryllium	50.0	42.6	85	43.2	86	1	
Cadmium	50.0	49.6	99	49.8	100	0	
Chromium	100	125	94	125	94	0	
Copper	50.0	65.1	101	65.8	102	1	
Lead	250	215	86	216	86	0	
Mercury	0.500	0.508	102	0.524	105	3	
Nickel	100	140	102	140	102	0	
Selenium	100	98.7	99	101	101	3	
Silver	25.0	23.1	92	23.1	92	0	
Thallium	50.0	43.1	86	44.0	88	2	
Zinc	100	121	86	122	87	1	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A/7471B
 SPIKE BLANK QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB1017SH1&SB1018S1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Antimony	6010C	100	98.5	99
Arsenic	6010C	100	95.0	95
Beryllium	6010C	50.0	48.2	96
Cadmium	6010C	50.0	51.3	103
Chromium	6010C	100	101	101
Copper	6010C	50.0	53.1	106
Lead	6010C	250	226	90
Mercury	7471B	0.500	0.515	103
Nickel	6010C	100	106	106
Selenium	6010C	100	97.5	98
Silver	6010C	25.0	24.5	98
Thallium	6020A	50.0	45.4	91
Zinc	6010C	100	92.2	92



Date of Report: October 20, 2016
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**HEXAVALENT CHROMIUM
 EPA 7196A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-112-02					
Client ID:	SB-9-10112016					
Hexavalent Chromium	ND	10	7196A		10-12-16	

Lab ID:	10-112-11					
Client ID:	SB-10-10112016					
Hexavalent Chromium	ND	10	7196A		10-12-16	

Lab ID:	10-112-17					
Client ID:	SB-11-10112016					
Hexavalent Chromium	ND	10	7196A		10-12-16	



Date of Report: October 20, 2016
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**HEXAVALENT CHROMIUM
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 10-12-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1012W1

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A	ND	10



Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-112
Project: 160157

**HEXAVALENT CHROMIUM
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Analyzed: 10-12-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-112-17

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	10	



Date of Report: October 20, 2016
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Laboratory Reference: 1610-112
Project: 160157

**HEXAVALENT CHROMIUM
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Analyzed: 10-12-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-112-17

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	200	210	105	215	108	2	



Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
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Project: 160157

**HEXAVALENT CHROMIUM
EPA 7196A
SPIKE BLANK QUALITY CONTROL**

Date Analyzed: 10-12-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: SB1012W1

Analyte	Method	Spike Level	SB	Percent Recovery
Hexavalent Chromium	7196A	200	209	105



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-112
 Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
 WATER EXTRACTION
 EPA 7196A**

Matrix: Soil
 Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: 10-112-06						
Client ID: SB-9-16						
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID: 10-112-14						
Client ID: SB-11-16						
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID: 10-112-16						
Client ID: SB-10-16						
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	



Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-112
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1019S1

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A mod	ND	1.0



Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-112
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	1.0	



Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-112
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	5.00	4.25	85	4.37	87	3	



Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-112
Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
SPIKE BLANK QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB1019S1

Analyte	Method	Spike Level	SB	Percent Recovery
Hexavalent Chromium	7196A mod	5.00	5.07	101



Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-112
Project: 160157

% MOISTURE

Date Analyzed: 10-17-16

Client ID	Lab ID	% Moisture
SB-9-16	10-112-06	6
SB-11-16	10-112-14	7
SB-10-16	10-112-16	6





Data Qualifiers and Abbreviations

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





Chain of Custody

Page 1 of 2

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

Company:

Aspect

Project Number:

160157

Project Name:

Project Manager:

Carla Boek

Sampled by:

Matthew van der Aal

Turnaround Request (in working days)

(Check One)

☐ Same Day

☐ 1 Day

☐ 2 Days

☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

4 day TA
(other)

Laboratory Number:

10-1112

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 HPA Metals
Total MTCA Metals
TCPL Metals
HEM (oil and grease) 1664A

% Moisture

1 *SB-9-21* *11 Oct* *0945* *S* *4*

2 *SB-9-10112016* *11:00* *W* *7*

3 *SB-9-26* *0950* *S* *4*

4 *SB-9-11* *0935* *S* *4*

5 *SB-9-6* *0930* *S* *4*

6 *SB-9-16* *0940* *S* *4*

7 *SB-10-6* *1235* *S* *4*

8 *SB-16-26* *1255* *S* *4*

9 *SB-10-21* *1250* *S* *4*

10 *SB-10-11* *1240* *S* *4*

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Added 10/14/16. 334 day TA

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐



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

Chain of Custody

Page 2 of 2

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com					
Company:		Aspect		Turnaround Request (in working days)	
Project Number:		160157		☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days	
Project Name:				☒ Standard (7 Days) (TPH analysis 5 Days)	
Project Manager:		Carla Bock		☐ _____ (other)	
Sampled by:		Matthew VanderAa			
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	SR-10-A10112016	11 Oct	13:40	M	NWTPH-HCID
12	SR-11-6	"	14:55	S	NWTPH-Gx/BTEX
13	SR-11-11	"	15:00	S	NWTPH-Gx
14	SR-11-16	"	15:05	S	NWTPH-Dx (☐ Acid / SG Clean-up)
15	SR-11-21	"	15:10	S	Volatiles 8260C
16	SR-10-16	"	12:45	S	Halogenated Volatiles 8260C
17	SR-11-10112016	11	14:55	M	EDB EPA 8011 (Waters Only)
			16:00		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 HCB Metals
					Total MTCA Metals
					TCLP Metals
					HEM (oil and grease) 1664A
					% Moisture
Signature		Company		Date	Time
Received		Aspect Consulting		12 Oct	08:00
Relinquished		Speedy		10/12/16	8:00
Received		Speedy		10/12/16	9:25
Relinquished		OSI State		10/12/16	9:25
Received					
Relinquished					
Reviewed/Date		Reviewed/Date		Data Package: Standard ☐ Level III ☐ Level IV ☐	
				Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐	



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

October 20, 2016

Carla Brock
Aspect Consulting
401 2nd Avenue South, Suite 201
Seattle, WA 98104

Re: Analytical Data for Project 160157
Laboratory Reference No. 1610-121

Dear Carla:

Enclosed are the analytical results and associated quality control data for samples submitted on October 12, 2016.

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

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

Sincerely,

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

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: October 20, 2016
Samples Submitted: October 12, 2016
Laboratory Reference: 1610-121
Project: 160157

Case Narrative

Samples were collected on October 12, 2016 and received by the laboratory on October 12, 2016. 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 (soil) Analysis

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

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: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-1					
Laboratory ID:	10-121-01					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.018	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	0.0048	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-1					
Laboratory ID:	10-121-01					
1,1,2-Trichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	0.0064	0.0018	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0035	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0089	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-131</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-5					
Laboratory ID:	10-121-03					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.014	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-5					
Laboratory ID:	10-121-03					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0028	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0071	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-131</i>				



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 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-1					
Laboratory ID:	10-121-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.011	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-1					
Laboratory ID:	10-121-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0021	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-131</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-5					
Laboratory ID:	10-121-06					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.013	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	0.0042	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-5					
Laboratory ID:	10-121-06					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	0.0063	0.0013	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0025	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-131</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-1					
Laboratory ID:	10-121-07					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.011	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-1					
Laboratory ID:	10-121-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0022	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-131</i>				



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 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-5					
Laboratory ID:	10-121-09					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.010	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-5					
Laboratory ID:	10-121-09					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0020	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-1					
Laboratory ID:	10-121-10					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.018	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-1					
Laboratory ID:	10-121-10					
1,1,2-Trichloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	0.0019	0.0018	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0036	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0090	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0018	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-131</i>				



Date of Report: October 20, 2016
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 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-5					
Laboratory ID:	10-121-12					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.010	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-5					
Laboratory ID:	10-121-12					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0021	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-12-16					
Laboratory ID:	10-121-15					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.012	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-12-16					
Laboratory ID:	10-121-15					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0024	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-17-16	10-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloromethane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroethane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Acetone	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Iodomethane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methylene Chloride	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Butanone	ND	0.010	EPA 8260C	10-17-16	10-17-16	
Bromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chloroform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Benzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Trichloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Dibromomethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Toluene	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Hexanone	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Chlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Ethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
m,p-Xylene	ND	0.0020	EPA 8260C	10-17-16	10-17-16	
o-Xylene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Styrene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromoform	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Bromobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-17-16	10-17-16	
Naphthalene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-17-16	10-17-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	73-134				
Toluene-d8	104	81-124				
4-Bromofluorobenzene	105	80-131				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB1017S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0408	0.0404	0.0500	0.0500	82	81	66-127	1	15	
Benzene	0.0426	0.0426	0.0500	0.0500	85	85	76-122	0	15	
Trichloroethene	0.0444	0.0459	0.0500	0.0500	89	92	78-120	3	15	
Toluene	0.0443	0.0460	0.0500	0.0500	89	92	83-120	4	15	
Chlorobenzene	0.0449	0.0454	0.0500	0.0500	90	91	81-120	1	15	
Surrogate:										
Dibromofluoromethane					102	96	73-134			
Toluene-d8					99	99	81-124			
4-Bromofluorobenzene					102	98	80-131			



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: SB-12-10122016						
Laboratory ID: 10-121-17						
Dichlorodifluoromethane	ND	0.30	EPA 8260C	10-14-16	10-14-16	
Chloromethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Acetone	ND	7.7	EPA 8260C	10-14-16	10-14-16	
Iodomethane	ND	1.3	EPA 8260C	10-14-16	10-14-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methylene Chloride	ND	2.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-14-16	10-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Butanone	ND	6.8	EPA 8260C	10-14-16	10-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroform	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Benzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Trichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Dibromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	10-14-16	10-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-14-16	10-14-16	
Toluene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-12-10122016					
Laboratory ID:	10-121-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Hexanone	ND	3.1	EPA 8260C	10-14-16	10-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	10-14-16	10-14-16	
o-Xylene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Styrene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromoform	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Isopropylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Propylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Naphthalene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1014W1					
Dichlorodifluoromethane	ND	0.30	EPA 8260C	10-14-16	10-14-16	
Chloromethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroethane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Acetone	ND	7.7	EPA 8260C	10-14-16	10-14-16	
Iodomethane	ND	1.3	EPA 8260C	10-14-16	10-14-16	
Carbon Disulfide	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methylene Chloride	ND	2.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Vinyl Acetate	ND	1.0	EPA 8260C	10-14-16	10-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Butanone	ND	6.8	EPA 8260C	10-14-16	10-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chloroform	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Benzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Trichloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Dibromomethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	10-14-16	10-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	10-14-16	10-14-16	
Toluene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-16	10-14-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
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 Project: 160157

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1014W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Hexanone	ND	3.1	EPA 8260C	10-14-16	10-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	10-14-16	10-14-16	
o-Xylene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Styrene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromoform	ND	1.0	EPA 8260C	10-14-16	10-14-16	
Isopropylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Bromobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Propylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
tert-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
sec-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
p-Isopropyltoluene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
n-Butylbenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Naphthalene	ND	1.0	EPA 8260C	10-14-16	10-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-16	10-14-16	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	105	71-131				
Toluene-d8	103	80-127				
4-Bromofluorobenzene	100	80-125				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB1014W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.3	9.82	10.0	10.0	103	98	62-132	5	20	
Benzene	9.87	9.71	10.0	10.0	99	97	75-121	2	15	
Trichloroethene	9.35	8.73	10.0	10.0	94	87	65-115	7	15	
Toluene	9.55	9.15	10.0	10.0	96	92	78-120	4	15	
Chlorobenzene	9.70	9.19	10.0	10.0	97	92	77-118	5	15	
Surrogate:										
Dibromofluoromethane					100	106	71-131			
Toluene-d8					104	102	80-127			
4-Bromofluorobenzene					98	99	80-125			



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-1					
Laboratory ID:	10-121-01					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.37	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-1					
Laboratory ID:	10-121-01					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.37	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	0.062	0.037	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[j,k]fluoranthene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	67	18 - 109				
Phenol-d6	71	25 - 111				
Nitrobenzene-d5	76	22 - 113				
2-Fluorobiphenyl	70	30 - 114				
2,4,6-Tribromophenol	74	22 - 116				
Terphenyl-d14	73	33 - 114				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-5					
Laboratory ID:	10-121-03					
n-Nitrosodimethylamine	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.34	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.17	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.034	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.034	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.034	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.034	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.034	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.034	EPA 8270D	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-2-5					
Laboratory ID:	10-121-03					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.034	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.034	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.034	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.34	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.034	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	0.21	0.034	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.034	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0068	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	71	18 - 109				
Phenol-d6	74	25 - 111				
Nitrobenzene-d5	79	22 - 113				
2-Fluorobiphenyl	71	30 - 114				
2,4,6-Tribromophenol	74	22 - 116				
Terphenyl-d14	75	33 - 114				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-1					
Laboratory ID:	10-121-04					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-1					
Laboratory ID:	10-121-04					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	0.15	0.036	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	59	18 - 109				
Phenol-d6	64	25 - 111				
Nitrobenzene-d5	67	22 - 113				
2-Fluorobiphenyl	64	30 - 114				
2,4,6-Tribromophenol	67	22 - 116				
Terphenyl-d14	69	33 - 114				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-5					
Laboratory ID:	10-121-06					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-3-5					
Laboratory ID:	10-121-06					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Pyrene	0.013	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	0.056	0.036	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	58	18 - 109				
Phenol-d6	61	25 - 111				
Nitrobenzene-d5	68	22 - 113				
2-Fluorobiphenyl	64	30 - 114				
2,4,6-Tribromophenol	68	22 - 116				
Terphenyl-d14	67	33 - 114				



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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-1					
Laboratory ID:	10-121-07					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	0.045	0.036	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-1					
Laboratory ID:	10-121-07					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.36	EPA 8270D	10-17-16	10-17-16	
Pyrene	0.010	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	0.35	0.036	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.036	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	45	18 - 109				
Phenol-d6	50	25 - 111				
Nitrobenzene-d5	52	22 - 113				
2-Fluorobiphenyl	54	30 - 114				
2,4,6-Tribromophenol	59	22 - 116				
Terphenyl-d14	58	33 - 114				



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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-5					
Laboratory ID:	10-121-09					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.37	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-4-5					
Laboratory ID:	10-121-09					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.37	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	0.047	0.037	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.037	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	68	18 - 109				
Phenol-d6	72	25 - 111				
Nitrobenzene-d5	77	22 - 113				
2-Fluorobiphenyl	72	30 - 114				
2,4,6-Tribromophenol	77	22 - 116				
Terphenyl-d14	76	33 - 114				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-1					
Laboratory ID:	10-121-10					
n-Nitrosodimethylamine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Pyridine	ND	0.35	EPA 8270D	10-17-16	10-18-16	
Phenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Aniline	ND	0.17	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Chlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,3-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,4-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
1,2-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-18-16	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Hexachloroethane	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Nitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Isophorone	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4-Dimethylphenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4-Dichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Naphthalene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Hexachlorobutadiene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,3-Dichloroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Chloronaphthalene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,4-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Dimethylphthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,3-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,6-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,2-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Acenaphthylene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-1					
Laboratory ID:	10-121-10					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Acenaphthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Dibenzofuran	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-17-16	10-18-16	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
4-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Fluorene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Hexachlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Phenanthrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Fluoranthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.35	EPA 8270D	10-17-16	10-18-16	
Pyrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
bis-2-Ethylhexyladipate	0.22	0.035	EPA 8270D	10-17-16	10-18-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Benzo[a]anthracene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Di-n-octylphthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Benzo[b]fluoranthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	60	18 - 109				
Phenol-d6	65	25 - 111				
Nitrobenzene-d5	70	22 - 113				
2-Fluorobiphenyl	74	30 - 114				
2,4,6-Tribromophenol	76	22 - 116				
Terphenyl-d14	75	33 - 114				



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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-5					
Laboratory ID:	10-121-12					
n-Nitrosodimethylamine	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Pyridine	ND	0.34	EPA 8270D	10-17-16	10-18-16	
Phenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Aniline	ND	0.17	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroethyl)ether	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2-Chlorophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
1,3-Dichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
1,4-Dichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
1,2-Dichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2-Methylphenol (o-Cresol)	ND	0.034	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroisopropyl)ether	ND	0.034	EPA 8270D	10-17-16	10-18-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.034	EPA 8270D	10-17-16	10-18-16	
n-Nitroso-di-n-propylamine	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Hexachloroethane	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Nitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Isophorone	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2-Nitrophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,4-Dimethylphenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroethoxy)methane	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,4-Dichlorophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
1,2,4-Trichlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Naphthalene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Hexachlorobutadiene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
4-Chloro-3-methylphenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2-Methylnaphthalene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,4,6-Trichlorophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,3-Dichloroaniline	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,4,5-Trichlorophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2-Chloronaphthalene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2-Nitroaniline	ND	0.034	EPA 8270D	10-17-16	10-18-16	
1,4-Dinitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Dimethylphthalate	ND	0.034	EPA 8270D	10-17-16	10-18-16	
1,3-Dinitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,6-Dinitrotoluene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
1,2-Dinitrobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Acenaphthylene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.034	EPA 8270D	10-17-16	10-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	IB-1-5					
Laboratory ID:	10-121-12					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Acenaphthene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,4-Dinitrotoluene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Dibenzofuran	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,3,5,6-Tetrachlorophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
2,3,4,6-Tetrachlorophenol	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-17-16	10-18-16	
4-Chlorophenyl-phenylether	ND	0.034	EPA 8270D	10-17-16	10-18-16	
4-Nitroaniline	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Fluorene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
n-Nitrosodiphenylamine	ND	0.034	EPA 8270D	10-17-16	10-18-16	
1,2-Diphenylhydrazine	ND	0.034	EPA 8270D	10-17-16	10-18-16	
4-Bromophenyl-phenylether	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Hexachlorobenzene	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Phenanthrene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Fluoranthene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.34	EPA 8270D	10-17-16	10-18-16	
Pyrene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.034	EPA 8270D	10-17-16	10-18-16	
bis-2-Ethylhexyladipate	0.097	0.034	EPA 8270D	10-17-16	10-18-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Benzo[a]anthracene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Di-n-octylphthalate	ND	0.034	EPA 8270D	10-17-16	10-18-16	
Benzo[b]fluoranthene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0069	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	73	18 - 109				
Phenol-d6	75	25 - 111				
Nitrobenzene-d5	79	22 - 113				
2-Fluorobiphenyl	73	30 - 114				
2,4,6-Tribromophenol	73	22 - 116				
Terphenyl-d14	79	33 - 114				



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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-12-16					
Laboratory ID:	10-121-15					
n-Nitrosodimethylamine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Pyridine	ND	0.35	EPA 8270D	10-17-16	10-18-16	
Phenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Aniline	ND	0.17	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroethyl)ether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Chlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,3-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,4-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
1,2-Dichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Methylphenol (o-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroisopropyl)ether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.035	EPA 8270D	10-17-16	10-18-16	
n-Nitroso-di-n-propylamine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Hexachloroethane	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Nitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Isophorone	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4-Dimethylphenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
bis(2-Chloroethoxy)methane	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4-Dichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,2,4-Trichlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Naphthalene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Hexachlorobutadiene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
4-Chloro-3-methylphenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4,6-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,3-Dichloroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4,5-Trichlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Chloronaphthalene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,4-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Dimethylphthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,3-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,6-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,2-Dinitrobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Acenaphthylene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-12-16					
Laboratory ID:	10-121-15					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Acenaphthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,4-Dinitrotoluene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Dibenzofuran	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,3,5,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
2,3,4,6-Tetrachlorophenol	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-17-16	10-18-16	
4-Chlorophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
4-Nitroaniline	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Fluorene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
n-Nitrosodiphenylamine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
1,2-Diphenylhydrazine	ND	0.035	EPA 8270D	10-17-16	10-18-16	
4-Bromophenyl-phenylether	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Hexachlorobenzene	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Phenanthrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Fluoranthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.35	EPA 8270D	10-17-16	10-18-16	
Pyrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
bis-2-Ethylhexyladipate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-17-16	10-18-16	
Benzo[a]anthracene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Di-n-octylphthalate	ND	0.035	EPA 8270D	10-17-16	10-18-16	
Benzo[b]fluoranthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo(j,k)fluoranthene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0070	EPA 8270D/SIM	10-17-16	10-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	62	18 - 109				
Phenol-d6	66	25 - 111				
Nitrobenzene-d5	73	22 - 113				
2-Fluorobiphenyl	69	30 - 114				
2,4,6-Tribromophenol	70	22 - 116				
Terphenyl-d14	76	33 - 114				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1017S1						
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Pyridine	ND	0.33	EPA 8270D	10-17-16	10-17-16	
Phenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Aniline	ND	0.17	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Chlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Benzyl alcohol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	10-17-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Hexachloroethane	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Nitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Isophorone	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Nitrophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Naphthalene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
4-Chloroaniline	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Hexachlorobutadiene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Chloronaphthalene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2-Nitroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Dimethylphthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
3-Nitroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
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SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
4-Nitrophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Dibenzofuran	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Diethylphthalate	ND	0.17	EPA 8270D	10-17-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
4-Nitroaniline	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-17-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Hexachlorobenzene	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Pentachlorophenol	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Carbazole	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzidine	ND	0.33	EPA 8270D	10-17-16	10-17-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Butylbenzylphthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-17-16	10-17-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
bis(2-Ethylhexyl)phthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Di-n-octylphthalate	ND	0.033	EPA 8270D	10-17-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[j,k]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-17-16	10-18-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	71	18 - 109				
Phenol-d6	74	25 - 111				
Nitrobenzene-d5	79	22 - 113				
2-Fluorobiphenyl	74	30 - 114				
2,4,6-Tribromophenol	70	22 - 116				
Terphenyl-d14	76	33 - 114				



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
 Laboratory Reference: 1610-121
 Project: 160157

**SEMIVOLATILES EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-121-15										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.813	0.760	1.33	1.33	ND	61	57	25 - 99	7	36	
2-Chlorophenol	0.813	0.761	1.33	1.33	ND	61	57	21 - 104	7	38	
1,4-Dichlorobenzene	0.404	0.362	0.667	0.667	ND	61	54	20 - 110	11	40	
n-Nitroso-di-n-propylamine	0.424	0.381	0.667	0.667	ND	64	57	24 - 100	11	38	
1,2,4-Trichlorobenzene	0.406	0.357	0.667	0.667	ND	61	54	21 - 110	13	40	
4-Chloro-3-methylphenol	0.928	0.841	1.33	1.33	ND	70	63	26 - 109	10	29	
Acenaphthene	0.451	0.403	0.667	0.667	ND	68	60	33 - 99	11	30	
4-Nitrophenol	0.902	0.801	1.33	1.33	ND	68	60	21 - 107	12	29	
2,4-Dinitrotoluene	0.481	0.427	0.667	0.667	ND	72	64	20 - 106	12	30	
Pentachlorophenol	0.552	0.480	1.33	1.33	ND	42	36	20 - 113	14	31	
Pyrene	0.491	0.430	0.667	0.667	ND	74	64	24 - 115	13	28	
Surrogate:											
2-Fluorophenol						57	52	18 - 109			
Phenol-d6						62	58	25 - 111			
Nitrobenzene-d5						68	60	22 - 113			
2-Fluorobiphenyl						66	60	30 - 114			
2,4,6-Tribromophenol						70	60	22 - 116			
Terphenyl-d14						75	65	33 - 114			



Date of Report: October 20, 2016
 Samples Submitted: October 12, 2016
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 Project: 160157

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-12-10122016					
Laboratory ID:	10-121-17					
n-Nitrosodimethylamine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Pyridine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Phenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Aniline	ND	4.7	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Chlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,3-Dichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,4-Dichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Benzyl alcohol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2-Dichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270D	10-13-16	10-17-16	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Hexachloroethane	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Nitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Isophorone	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Nitrophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4-Dimethylphenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4-Dichlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Naphthalene	0.15	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
4-Chloroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Hexachlorobutadiene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Methylnaphthalene	0.12	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,3-Dichloroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Chloronaphthalene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2-Nitroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,4-Dinitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Dimethylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,3-Dinitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,6-Dinitrotoluene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2-Dinitrobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Acenaphthylene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	



Date of Report: October 20, 2016
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SB-12-10122016					
Laboratory ID:	10-121-17					
2,4-Dinitrophenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
Acenaphthene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
4-Nitrophenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
2,4-Dinitrotoluene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Dibenzofuran	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Diethylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Nitroaniline	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Fluorene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Hexachlorobenzene	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Pentachlorophenol	ND	4.7	EPA 8270D	10-13-16	10-17-16	
Phenanthrene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Anthracene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Carbazole	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Di-n-butylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Fluoranthene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzydine	ND	4.7	EPA 8270D	10-13-16	10-17-16	
Pyrene	ND	0.095	EPA 8270D/SIM	10-13-16	10-13-16	
Butylbenzylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
bis-2-Ethylhexyladipate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Benzo[a]anthracene	0.012	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Chrysene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Di-n-octylphthalate	ND	0.95	EPA 8270D	10-13-16	10-17-16	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[a]pyrene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270D/SIM	10-13-16	10-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	12 - 89				
Phenol-d6	34	10 - 87				
Nitrobenzene-d5	76	23 - 120				
2-Fluorobiphenyl	70	34 - 114				
2,4,6-Tribromophenol	71	18 - 148				
Terphenyl-d14	73	37 - 126				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1013W1						
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Pyridine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Phenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Aniline	ND	5.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzyl alcohol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	10-13-16	10-13-16	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachloroethane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Nitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Isophorone	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitrophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Naphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4-Chloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachlorobutadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Chloronaphthalene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Dimethylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
3-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1013W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Acenaphthene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4-Nitrophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Dibenzofuran	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Diethylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Nitroaniline	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Fluorene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Hexachlorobenzene	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Pentachlorophenol	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Phenanthrene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Anthracene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Carbazole	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Di-n-butylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Fluoranthene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Benzidine	ND	5.0	EPA 8270D	10-13-16	10-13-16	
Pyrene	ND	0.10	EPA 8270D/SIM	10-13-16	10-13-16	
Butylbenzylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
bis-2-Ethylhexyladipate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Chrysene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
bis(2-Ethylhexyl)phthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Di-n-octylphthalate	ND	1.0	EPA 8270D	10-13-16	10-13-16	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[j,k]fluoranthene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	10-13-16	10-13-16	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	50	19 - 87				
Phenol-d6	38	10 - 83				
Nitrobenzene-d5	79	35 - 112				
2-Fluorobiphenyl	75	45 - 112				
2,4,6-Tribromophenol	85	37 - 115				
Terphenyl-d14	85	49 - 126				



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**SEMIVOLATILES EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1013W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	17.1	17.4	40.0	40.0	43	44	25 - 70	2	32	
2-Chlorophenol	30.8	31.8	40.0	40.0	77	80	55 - 99	3	27	
1,4-Dichlorobenzene	14.5	14.5	20.0	20.0	73	73	48 - 93	0	30	
n-Nitroso-di-n-propylamine	15.3	15.4	20.0	20.0	77	77	47 - 108	1	26	
1,2,4-Trichlorobenzene	14.8	15.1	20.0	20.0	74	76	52 - 94	2	24	
4-Chloro-3-methylphenol	32.1	32.7	40.0	40.0	80	82	67 - 108	2	16	
Acenaphthene	16.2	15.5	20.0	20.0	81	78	50 - 113	4	17	
4-Nitrophenol	16.9	16.4	40.0	40.0	42	41	29 - 78	3	37	
2,4-Dinitrotoluene	14.8	14.2	20.0	20.0	74	71	64 - 107	4	19	
Pentachlorophenol	26.5	27.3	40.0	40.0	66	68	35 - 116	3	25	
Pyrene	17.0	16.8	20.0	20.0	85	84	61 - 112	1	15	
Surrogate:										
2-Fluorophenol					56	57	19 - 87			
Phenol-d6					43	44	10 - 83			
Nitrobenzene-d5					84	86	35 - 112			
2-Fluorobiphenyl					80	79	45 - 112			
2,4,6-Tribromophenol					86	87	37 - 115			
Terphenyl-d14					89	86	49 - 126			



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 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-01					
Client ID:	IB-2-1					
Antimony	ND	5.5	6010C	10-17-16	10-17-16	
Arsenic	ND	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.55	6010C	10-17-16	10-17-16	
Cadmium	ND	0.55	6010C	10-17-16	10-17-16	
Chromium	38	0.55	6010C	10-17-16	10-17-16	
Copper	17	1.1	6010C	10-17-16	10-17-16	
Lead	5.7	5.5	6010C	10-17-16	10-17-16	
Mercury	ND	0.28	7471B	10-18-16	10-18-16	
Nickel	44	2.8	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.4	6020A	10-17-16	10-19-16	
Zinc	35	2.8	6010C	10-17-16	10-17-16	



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 Samples Submitted: October 12, 2016
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 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-03					
Client ID:	IB-2-5					
Antimony	ND	5.1	6010C	10-17-16	10-17-16	
Arsenic	ND	10	6010C	10-17-16	10-17-16	
Beryllium	ND	0.51	6010C	10-17-16	10-17-16	
Cadmium	ND	0.51	6010C	10-17-16	10-17-16	
Chromium	37	0.51	6010C	10-17-16	10-17-16	
Copper	17	1.0	6010C	10-17-16	10-17-16	
Lead	ND	5.1	6010C	10-17-16	10-17-16	
Mercury	ND	0.26	7471B	10-18-16	10-18-16	
Nickel	47	2.6	6010C	10-17-16	10-17-16	
Selenium	ND	10	6010C	10-17-16	10-17-16	
Silver	ND	1.0	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	32	2.6	6010C	10-17-16	10-17-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-04					
Client ID:	IB-3-1					
Antimony	ND	5.4	6010C	10-17-16	10-17-16	
Arsenic	ND	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.54	6010C	10-17-16	10-17-16	
Cadmium	ND	0.54	6010C	10-17-16	10-17-16	
Chromium	32	0.54	6010C	10-17-16	10-17-16	
Copper	12	1.1	6010C	10-17-16	10-17-16	
Lead	ND	5.4	6010C	10-17-16	10-17-16	
Mercury	ND	0.27	7471B	10-18-16	10-18-16	
Nickel	36	2.7	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	24	2.7	6010C	10-17-16	10-17-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-06					
Client ID:	IB-3-5					
Antimony	ND	5.4	6010C	10-17-16	10-17-16	
Arsenic	ND	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.54	6010C	10-17-16	10-17-16	
Cadmium	ND	0.54	6010C	10-17-16	10-17-16	
Chromium	35	0.54	6010C	10-17-16	10-17-16	
Copper	16	1.1	6010C	10-17-16	10-17-16	
Lead	5.6	5.4	6010C	10-17-16	10-17-16	
Mercury	ND	0.27	7471B	10-18-16	10-18-16	
Nickel	43	2.7	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	37	2.7	6010C	10-17-16	10-17-16	



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 Project: 160157

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-07					
Client ID:	IB-4-1					
Antimony	ND	5.4	6010C	10-17-16	10-17-16	
Arsenic	91	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.54	6010C	10-17-16	10-17-16	
Cadmium	0.59	0.54	6010C	10-17-16	10-17-16	
Chromium	25	0.54	6010C	10-17-16	10-17-16	
Copper	93	1.1	6010C	10-17-16	10-17-16	
Lead	15	5.4	6010C	10-17-16	10-17-16	
Mercury	ND	0.27	7471B	10-18-16	10-18-16	
Nickel	77	2.7	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	240	2.7	6010C	10-17-16	10-17-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-09					
Client ID:	IB-4-5					
Antimony	ND	5.5	6010C	10-17-16	10-17-16	
Arsenic	ND	11	6010C	10-17-16	10-17-16	
Beryllium	ND	0.55	6010C	10-17-16	10-17-16	
Cadmium	ND	0.55	6010C	10-17-16	10-17-16	
Chromium	35	0.55	6010C	10-17-16	10-17-16	
Copper	21	1.1	6010C	10-17-16	10-17-16	
Lead	ND	5.5	6010C	10-17-16	10-17-16	
Mercury	ND	0.27	7471B	10-18-16	10-18-16	
Nickel	41	2.7	6010C	10-17-16	10-17-16	
Selenium	ND	11	6010C	10-17-16	10-17-16	
Silver	ND	1.1	6010C	10-17-16	10-17-16	
Thallium	ND	1.4	6020A	10-17-16	10-19-16	
Zinc	36	2.7	6010C	10-17-16	10-17-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-10					
Client ID:	IB-1-1					
Antimony	ND	5.2	6010C	10-17-16	10-17-16	
Arsenic	ND	10	6010C	10-17-16	10-17-16	
Beryllium	ND	0.52	6010C	10-17-16	10-17-16	
Cadmium	ND	0.52	6010C	10-17-16	10-17-16	
Chromium	43	0.52	6010C	10-17-16	10-17-16	
Copper	20	1.0	6010C	10-17-16	10-17-16	
Lead	ND	5.2	6010C	10-17-16	10-17-16	
Mercury	ND	0.26	7471B	10-18-16	10-18-16	
Nickel	51	2.6	6010C	10-17-16	10-17-16	
Selenium	ND	10	6010C	10-17-16	10-17-16	
Silver	ND	1.0	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	34	2.6	6010C	10-17-16	10-17-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-12					
Client ID:	IB-1-5					
Antimony	ND	5.1	6010C	10-17-16	10-17-16	
Arsenic	ND	10	6010C	10-17-16	10-17-16	
Beryllium	ND	0.51	6010C	10-17-16	10-17-16	
Cadmium	ND	0.51	6010C	10-17-16	10-17-16	
Chromium	39	0.51	6010C	10-17-16	10-17-16	
Copper	17	1.0	6010C	10-17-16	10-17-16	
Lead	ND	5.1	6010C	10-17-16	10-17-16	
Mercury	ND	0.26	7471B	10-18-16	10-18-16	
Nickel	45	2.6	6010C	10-17-16	10-17-16	
Selenium	ND	10	6010C	10-17-16	10-17-16	
Silver	ND	1.0	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	29	2.6	6010C	10-17-16	10-17-16	



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TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-15					
Client ID:	SB-12-16					
Antimony	ND	5.2	6010C	10-17-16	10-17-16	
Arsenic	ND	10	6010C	10-17-16	10-17-16	
Beryllium	ND	0.52	6010C	10-17-16	10-17-16	
Cadmium	ND	0.52	6010C	10-17-16	10-17-16	
Chromium	32	0.52	6010C	10-17-16	10-17-16	
Copper	15	1.0	6010C	10-17-16	10-17-16	
Lead	ND	5.2	6010C	10-17-16	10-17-16	
Mercury	ND	0.26	7471B	10-18-16	10-18-16	
Nickel	42	2.6	6010C	10-17-16	10-17-16	
Selenium	ND	10	6010C	10-17-16	10-17-16	
Silver	ND	1.0	6010C	10-17-16	10-17-16	
Thallium	ND	1.3	6020A	10-17-16	10-19-16	
Zinc	31	2.6	6010C	10-17-16	10-17-16	



Date of Report: October 20, 2016
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 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A/7471B
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB1017SH1&MB1018S1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Thallium	6020A	ND	1.3
Zinc	6010C	ND	2.5



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**TOTAL METALS
 EPA 6010C/6020A/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	30.8	30.2	2	0.50	
Copper	14.8	14.3	3	1.0	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Nickel	38.4	38.7	1	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Thallium	ND	ND	NA	1.3	
Zinc	35.1	33.1	6	2.5	



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 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	93.8	94	94.0	94	0	
Arsenic	100	96.6	97	97.0	97	0	
Beryllium	50.0	42.6	85	43.2	86	1	
Cadmium	50.0	49.6	99	49.8	100	0	
Chromium	100	125	94	125	94	0	
Copper	50.0	65.1	101	65.8	102	1	
Lead	250	215	86	216	86	0	
Mercury	0.500	0.508	102	0.524	105	3	
Nickel	100	140	102	140	102	0	
Selenium	100	98.7	99	101	101	3	
Silver	25.0	23.1	92	23.1	92	0	
Thallium	50.0	43.1	86	44.0	88	2	
Zinc	100	121	86	122	87	1	



Date of Report: October 20, 2016
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 Project: 160157

**TOTAL METALS
 EPA 6010C/6020A/7471B
 SPIKE BLANK QUALITY CONTROL**

Date Extracted: 10-17&18-16
 Date Analyzed: 10-17,18&19-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB1017SH1&SB1018S1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Antimony	6010C	100	98.5	99
Arsenic	6010C	100	95.0	95
Beryllium	6010C	50.0	48.2	96
Cadmium	6010C	50.0	51.3	103
Chromium	6010C	100	101	101
Copper	6010C	50.0	53.1	106
Lead	6010C	250	226	90
Mercury	7471B	0.500	0.515	103
Nickel	6010C	100	106	106
Selenium	6010C	100	97.5	98
Silver	6010C	25.0	24.5	98
Thallium	6020A	50.0	45.4	91
Zinc	6010C	100	92.2	92



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DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	10-121-17					
Client ID:	SB-12-10122016					
Antimony	ND	5.0	200.8	10-13-16	10-17-16	
Arsenic	ND	3.0	200.8	10-13-16	10-17-16	
Beryllium	ND	10	200.8	10-13-16	10-17-16	
Cadmium	ND	4.0	200.8	10-13-16	10-17-16	
Chromium	ND	10	200.8	10-13-16	10-17-16	
Copper	ND	10	200.8	10-13-16	10-17-16	
Lead	2.0	1.0	200.8	10-13-16	10-17-16	
Mercury	ND	0.50	7470A	10-13-16	10-14-16	
Nickel	ND	20	200.8	10-13-16	10-17-16	
Selenium	ND	5.0	200.8	10-13-16	10-17-16	
Silver	ND	10	200.8	10-13-16	10-17-16	
Thallium	ND	5.0	200.8	10-13-16	10-17-16	
Zinc	ND	25	200.8	10-13-16	10-17-16	



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**DISSOLVED METALS
 EPA 200.8/7470A
 METHOD BLANK QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: MB1013F1

Analyte	Method	Result	PQL
Antimony	200.8	ND	5.0
Arsenic	200.8	ND	3.0
Beryllium	200.8	ND	10
Cadmium	200.8	ND	4.0
Chromium	200.8	ND	10
Copper	200.8	ND	10
Lead	200.8	ND	1.0
Mercury	7470A	ND	0.50
Nickel	200.8	ND	20
Selenium	200.8	ND	5.0
Silver	200.8	ND	10
Thallium	200.8	ND	5.0
Zinc	200.8	ND	25



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 Project: 160157

**DISSOLVED METALS
 EPA 200.8/7470A
 DUPLICATE QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 10-112-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	3.0	
Beryllium	ND	ND	NA	10	
Cadmium	ND	ND	NA	4.0	
Chromium	ND	ND	NA	10	
Copper	ND	ND	NA	10	
Lead	ND	ND	NA	1.0	
Mercury	ND	ND	NA	0.5	
Nickel	ND	ND	NA	20	
Selenium	ND	ND	NA	5.0	
Silver	ND	ND	NA	10	
Thallium	ND	ND	NA	5.0	
Zinc	ND	ND	NA	25	



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 Project: 160157

**DISSOLVED METALS
 EPA 200.8/7470A
 MS/MSD QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

Matrix: Water
 Units: ug/L (ppb)

Lab ID: 10-112-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	200	200	100	205	102	2	
Arsenic	200	204	102	204	102	0	
Beryllium	200	197	99	200	100	1	
Cadmium	200	203	101	207	104	2	
Chromium	200	194	97	194	97	0	
Copper	200	194	97	192	96	1	
Lead	200	188	94	191	95	2	
Mercury	12.5	14.1	113	14.9	119	6	
Nickel	200	195	97	195	97	0	
Selenium	200	204	102	208	104	2	
Silver	200	187	93	188	94	0	
Thallium	200	185	92	187	94	1	
Zinc	200	221	111	218	109	2	



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**DISSOLVED METALS
 EPA 200.8/7470A
 SPIKE BLANK QUALITY CONTROL**

Date Filtered: 10-13-16
 Date Analyzed: 10-14&17-16

 Matrix: Water
 Units: ug/L (ppb)

 Lab ID: SB1013F1

Analyte	Method	Spike Level	SB Result	Percent Recovery
Antimony	200.8	200	204	102
Arsenic	200.8	200	209	105
Beryllium	200.8	200	200	100
Cadmium	200.8	200	205	103
Chromium	200.8	200	193	97
Copper	200.8	200	196	98
Lead	200.8	200	192	96
Mercury	7470A	12.5	12.6	101
Nickel	200.8	200	198	99
Selenium	200.8	200	215	108
Silver	200.8	200	189	95
Thallium	200.8	200	190	95
Zinc	200.8	200	211	106



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 Project: 160157

**SOLUBLE HEXAVALENT CHROMIUM
 WATER EXTRACTION
 EPA 7196A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-01					
Client ID:	IB-2-1					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID:	10-121-03					
Client ID:	IB-2-5					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID:	10-121-04					
Client ID:	IB-3-1					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID:	10-121-06					
Client ID:	IB-3-5					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID:	10-121-07					
Client ID:	IB-4-1					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID:	10-121-09					
Client ID:	IB-4-5					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	
Lab ID:	10-121-10					
Client ID:	IB-1-1					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	



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**SOLUBLE HEXAVALENT CHROMIUM
 WATER EXTRACTION
 EPA 7196A**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-121-12					
Client ID:	IB-1-5					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	

Lab ID:	10-121-15					
Client ID:	SB-12-16					
Hexavalent Chromium	ND	1.1	7196A mod	10-19-16	10-19-16	



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**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1019S1

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A mod	ND	1.0



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**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	1.0	



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**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-112-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	5.00	4.25	85	4.37	87	3	



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**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
SPIKE BLANK QUALITY CONTROL**

Date Extracted: 10-19-16
Date Analyzed: 10-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB1019S1

Analyte	Method	Spike Level	SB	Percent Recovery
Hexavalent Chromium	7196A mod	5.00	5.07	101



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HEXAVALENT CHROMIUM
EPA 7196A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	10-121-17					
Client ID:	SB-12-10122016					
Hexavalent Chromium	ND	10	7196A		10-13-16	



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**HEXAVALENT CHROMIUM
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 10-13-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1013W1

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A	ND	10



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**HEXAVALENT CHROMIUM
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Analyzed: 10-13-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 10-121-17

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	10	



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**HEXAVALENT CHROMIUM
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Analyzed: 10-13-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-121-17

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	100	98.1	98	103	103	5	



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**HEXAVALENT CHROMIUM
EPA 7196A
SPIKE BLANK QUALITY CONTROL**

Date Analyzed: 10-13-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: SB1013W1

Analyte	Method	Spike Level	SB	Percent Recovery
Hexavalent Chromium	7196A	100	101	101



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% MOISTURE

Date Analyzed: 10-17-16

Client ID	Lab ID	% Moisture
IB-2-1	10-121-01	9
IB-2-5	10-121-03	3
IB-3-1	10-121-04	7
IB-3-5	10-121-06	7
IB-4-1	10-121-07	7
IB-4-5	10-121-09	9
IB-1-1	10-121-10	4
IB-1-5	10-121-12	3
SB-12-16	10-121-15	4





Data Qualifiers and Abbreviations

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





Analytical Laboratory Testing Services
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Chain of Custody

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Chain of Custody

Company: Aspect		Turnaround Request (in working days)		Laboratory Number: 10-121													
Project Number: 160157		☐ Same Day ☐ 1 Day															
Project Name:		☐ 2 Days ☐ 3 Days															
Project Manager:		☒ Standard (7 Days) (TPH analysis 5 Days)															
Sampled by:		☐ (other)															
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers												
11	1B-1-3	12 Oct	10:15	Soil	NWTPH-HCID												
12	1B-1-5		10:20		NWTPH-Gx/BTEX												
13	5B-12-6		11:15		NWTPH-Gx												
14	5B-12-11		11:20		NWTPH-Dx (☐ Acid / SG Clean-up)												
15	5B-12-16		11:25		Volatiles 8260C												
16	5B-12-21		11:30		Halogenated Volatiles 8260C												
17	5B-12-10122016		12:30	water	EDB EPA 8011 (Waters Only)												
18	5B-10-30	11 Oct	1250	Soil	Semivolatiles 8270D/SIM (with low-level PAHs)												
					PAHs 8270D/SIM (low-level)												
					PCBs 8062A TOTAL PP Metals												
					Organochlorine Pesticides 8081B												
					Organophosphorus Pesticides 8270D/SIM												
					Chlorinated Acid Herbicides 8151A												
					Total BCRA Metals DISSOLVED PP Metals												
					Total MTGA Metals Cr VI												
					TCLP Metals												
					HEM (oil and grease) 1664A												
					NO DR FIELD												
					% Moisture												
Relinquished		Signature	Company	Date	Time	Comments/Special Instructions											
Received			Aspect Consulting	12 Oct	16:10	Not field filtered											
Relinquished			ORIS	10/12/16	16:40												
Received																	
Relinquished																	
Received						Data Package: Standard ☐ Level III ☐ Level IV ☐											
Reviewed/Date			Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐											