



May 15, 2019

Ms. Linette Waling
 VP of Operations
 Print Bear LLC
 336 Forest Avenue
 Amsterdam, NY 12010

Via email: linette@printbear.net

RE: Limited Phase II Environmental Site Investigation Report
 61 Edson Street, Amsterdam, NY
 Ambient Project No. 190311ENVA

Dear Ms. Waling;

Ambient Environmental, Inc. (Ambient) performed a limited Phase II Environmental Site Investigation (SI) at the Site located at 61 Edson Street, Amsterdam, New York (the Site). The Site location is shown on the attached Figure 1. The scope of work was based, in part, on a detailed review of environmental documents related to the Site and discussions with Print Bear LLC (Print Bear) regarding their potential future purchase and use of the Site. The Site is designated as State Superfund Program Site No. 429004 and remediation has been conducted under that Program to the extent that the Site has been reclassified as Classification 04. A NYSDEC-approved Site Management Plan (SMP) prepared by AECOM Environmental, dated February 2011, applies to the Site and contains requirements that must be met prior to the performance of any intrusive work at the Site. To comply with the SMP, Ambient prepared a limited SI Work Plan that was submitted to, and approved by, NYSDEC as described below.

Prior to preparing the SI Work Plan, Ambient evaluated environmental files related to the Site. Ambient's file review identified data gaps that could have represented a potential risk to the future owner. Those data gaps were as follows:

- Sampling had not been conducted under the building, therefore, the extent of contamination under the building (if any) was not known;
- Sampling had not been conducted in the parking lot area that occupies the entire western portion of the Site, therefore, the extent of contamination in this area (if any) was not known;
- Groundwater monitoring had not been conducted in the western portion of the site, therefore, groundwater quality in this area (which is the portion of the Site closest to residential properties) was not known.

Ambient's scope of work addressed those data gaps.

SCOPE OF WORK

Ambient implemented the scope of work summarized below.

SI Work Plan Development. Ambient prepared a SI Work Plan that describes the limited SI scope of work and the approach and procedures for implementing the scope of work. The SI Work Plan includes the following elements: Sampling and Analysis Plan (SAP), Quality Assurance Project Plan (QAPP), and Health and Safety Plan (HASP). The SI Work Plan contains an extensive summary of the Site background and environmental work performed to date; therefore, that information is not presented herein.

The SI Work Plan was submitted to NYSDEC for review on 13 March 2019. NYSDEC provided comments on 14 March 2019 and Ambient addressed those comments in a SI Work Plan Addendum dated 14 March 2019. NYSDEC accepted the SI Work Plan and Addendum on 18 March 2019.

Ground Penetrating Radar (GPR) Survey. Ambient contracted GPRS, Inc. to conduct a GPR survey of western parking lot area to evaluate the potential location of current or past tanks, dry wells, pipes and other buried features. Additionally, Ambient utilized the public underground utility locator service (“Digsafe”) and the knowledge of the property representative to establish an underground feature mark-out in the work area prior to any intrusive activity.

Results from this survey performed on 27 March 2019 are summarized below in the Summary of Findings section of this report.

Soil Boring/Soil Sampling. On 27 March 2019 and 28 March 2019, Ambient advanced 18 soil borings to various depths below ground surface (bgs) based on field screening and site conditions. Nine soil borings were advanced inside the building through the concrete floor and nine soil borings were advanced in the western parking lot area (Figure 2). [NOTE-Prior to advancing interior borings, Ambient utilized a PhotoIonization Detector (PID) to survey interior building air for volatile organic compounds (VOCs) at the ppm detection level. Significant VOC readings were not detected during that survey.] Soil borings were advanced by NYEG Drilling, LLC using ‘direct push’ technology to collect samples continuously from grade to total depth. Soil borings were logged and continuously scanned with a PID by Ambient’s on-site geologist and on-site environmental scientist. The soil borings location map is included as an attachment. PID readings exceeding 5 ppm (parts per million) were not detected in soil at any boring location except for interior soil boring ISB-4 where a VOC reading of 35 ppm was detected at 8.5 feet bgs. No odors or staining were detected in any of the recovered soil. A total of five soil samples were collected for analyses based on field observations and screening as follows:

- Soil sample ISB-4 collected from 7.5 to 8.5 feet bgs at boring location ISB-4;
- Soil sample ISB-6 collected from 3.5 to 4.5 feet bgs at boring location ISB-6;
- Soil sample SB-2 collected from 9.0 to 9.0 feet bgs at boring location SB-2;
- Soil sample SB-5 collected from 4.5 to 5.0 feet bgs at boring location SB-5; and
- Soil sample WC1 collected from MW-22 and MW-23 drill cuttings.

In general, borings were advanced to approximately 10 feet below grade at which depth a firm medium brown silt/clay till layer was encountered. Refusal occurred in nine of the borings at depths varying from 4 feet bgs to 9 feet bgs due to large cobbles or dense till.

Soil boring logs are attached.

Groundwater Monitoring. Two bedrock groundwater monitoring wells, MW-22 and MW-23, were constructed in the northwest portion of the Site and one groundwater sample was collected for analyses from each new well (Figure 2). MW-22 and MW-23 are two-inch diameter PVC wells that were installed on 27 March 2019 and 28 March 2019 in boreholes drilled with a Hollow Stem Auger (HSA) to the top of bedrock. Air rotary drilling was utilized to complete the drilling to the total depth: 50 feet bgs for MW-22 and 45 feet bgs for MW-23. Both wells were screened from 30 feet bgs to total depth and sand was placed around the screen from 28 feet bgs to total depth. MW-22 was sealed with bentonite from 25 feet bgs to 28 feet bgs and a bentonite/cement grout was placed around the screen from 2.5 feet bgs to 25 feet bgs. A concrete pad was poured from 0 feet bgs to 2.5 feet bgs and the well was finished with a flush-mounted curb box. MW-23 was sealed with bentonite from 23.4 feet bgs to 28 feet bgs and a bentonite/cement grout was placed around the screen from 3 feet bgs to 23.4 feet bgs. A concrete pad was poured from 0 feet bgs to 3 feet bgs and the well was finished with a flush-mounted curb box. Water levels for both wells were measured on 28 March 2019, at which time the depth to water in MW-22 was 20.07 feet below the top of the PVC casing and the depth to water in MW-23 was 18.34 feet below the top of the PVC casing.

Both wells were developed, purged and sampled by Alpha Analytical on 8 April 2019. The depth to water in each well was measured prior to sampling. The depth to water in MW-22 was 18.12 feet below the top of the PVC casing and the depth to water in MW-23 was 17.90 feet below the top of the PVC casing. MW-22 was developed using bailers while MW-23 was developed using the Geopump (a peristaltic pump). A total of 14 gallons, or three well volumes, were purged from MW-23 to develop the well. A total of 11 gallons was purged from MW-22 before the well went dry. The groundwater in MW-22 started off clear and became more turbid as the well was developed. The groundwater in MW-23 started off clear and stayed clear throughout the development process. No odor was detected in either well. MW-23 recharged almost instantaneously, but MW-22 only recharged seven feet after a few hours. MW-23 was purged with the Geopump and sampled using the low flow method. MW-22 could not be purged with the Geopump due to the limited recharge; therefore, the well was purged with a bailer and sampled using the low flow method. Water quality readings were collected during the sampling process using YSI ProDSS with a flow cell. Five readings were taken from MW-23 until three stable readings were taken. There was not enough recharge in MW-22 to get three stable readings: only one reading of the parameters was taken.

Well Purging/Sampling logs are attached.

Sample Analyses. Five soil samples and two water samples (plus a VOC Trip Blank, as required) were analyzed for TCL volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) SW-846 Test Method 8260. Additionally, five soil samples were analyzed for total RCRA Metals, Nickel, and Zinc (EPA 6010D and EPA 7471). All samples were analyzed by ALPHA Analytical, a NYSDOH-certified laboratory. The results of soil sample analyses are compared to unrestricted use and commercial use NYSDEC Soil

Cleanup Objectives (SCOs) as summarized on the attached Table 1. The results of water sample analyses are compared to NYS Groundwater Standards (GWS) as summarized on Table 2.

Laboratory reports are provided as attachments.

Summary of Findings. The GPR survey covered the entire parking lot area and located three underground features on the western side of the building. Live power was found parallel to the western side of the building from the corner of the building to the man door. An unknown underground feature, approximately 9 feet long and buried an estimated 0.5 feet bgs, was located near the south west corner of the building. A few feet north of that, another underground feature was located. This feature was a semi-circle, approximately 8 feet wide and buried an estimated 0.5 feet bgs.

Soil borings showed that a firm medium brown silt/clay till layer was encountered at around 10 feet bgs throughout the Site. Light gray cobbles were consistently found throughout borings, causing refusal at some locations as noted on boring logs. PID readings were below 5 ppm in most of the borings, except at ISB-4 where a VOC reading of 35 ppm was detected at 8.5 feet bgs. At SB-2, a sample from 8.5 feet bgs was placed in a Ziplock bag and the headspace VOC reading reached 3 ppm. Odors or staining were not identified in any of the soil borings. The concrete floors inside the building were generally 0.5 feet thick and the pavement in the western parking lot area was generally 0.3 feet thick with another 0.7 feet of sub-base material.

Bedrock groundwater monitoring wells indicated that depth to groundwater in the western parking lot area is approximately 17-20 feet bgs. This is consistent with the other wells onsite. The bedrock in MW-23 was very fractured, causing groundwater to be encountered at relatively shallow depths, while the bedrock in MW-22 appeared to be less fractured (and, therefore, produce less water).

Analyses of soil samples show that concentrations of VOCs and metals exceed unrestricted use SCOs for various analytes in three out of the five samples. Exceedances are as follows: acetone and trichloroethene in ISB-6 (3.5-4'), trichloroethene and zinc in ISB-4 (7.5-8.5'), and cadmium, chromium, lead, nickel, and zinc in WC1. The exceedances in ISB-6 (3.5-4') were excepted since this sample was taken from the grinding room; the reported location of a historical spill. The only PID reading above 5 ppm was from ISB-4, the same location where highest concentration of trichloroethene and zinc were found in the soil sample. Soil boring ISB-4 was located near the grinding room. Although there were exceedances for unrestricted use SCOs, the concentrations of VOCs and metals in all soil samples were below commercial use SCOs.

Analyses of groundwater samples show that concentrations of VOCs exceed the NYS GWS for trichloroethene in samples collected from both newly-installed wells (MW-22 and MW-23). Aside from trichloroethene, no other VOC exceedances of the NYS GWS occurred in either sample. The concentrations of trichloroethene in samples collected from both new monitoring wells are consistent with the trichloroethene concentrations detected in samples obtained from the Site-wide groundwater monitoring well network over time. This shows that the trichloroethene concentrations in groundwater onsite is not contained to the eastern portion of the Site, as previously indicated.

Additional Investigation Activities

Ambient performed the following activities in order to further evaluate the Site based on the findings described above.

Groundwater Sampling. On 2 May 2019 and 3 May 2019, Alpha Analytical re-sampled the two monitoring wells installed by Ambient (MW-22 and MW-23) and also collected groundwater samples from existing monitoring wells MW-5, MW-8, MW-10 and MW-12. This sampling was performed to: (1) confirm initial results of MW-22 and MW-23 sampling and analyses and; (2) document contemporaneous VOC concentrations at selected locations site-wide.

Well Purging/Sampling logs are attached.

Six water samples (plus a VOC Trip Blank, as required) were analyzed for TCL volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) SW-846 Test Method 8260. All samples were analyzed by ALPHA Analytical, a NYSDOH-certified laboratory. The concentration of trichloroethene exceeded the NYS Groundwater Standards (GWS) by at least one order of magnitude in each sample. The results of groundwater sample analyses are compared to GWS as summarized on Table 2.

Laboratory reports are provided as attachments.

Analyses of groundwater samples show that concentrations of VOCs exceed the NYS GWS for trichloroethene in samples collected from both newly installed wells (MW-22 and MW-23) and from the existing wells that were sampled (MW-5, MW-8, MW-10 and MW-12). Aside from trichloroethene, no other VOC exceedances of the NYS GWS occurred in MW-22, MW-23, MW-5 or MW-12. In addition to a trichloroethene exceedance in the sample from MW-8, the concentration of tetrachloroethene in that sample also exceedance the GWS. Both a trichloroethene exceedance and a cis-1,2-dichloroethene exceedance were detected in the sample from MW-10. The concentrations of trichloroethene in samples collected from the monitoring wells are consistent with the trichloroethene concentrations detected in the samples obtained on 8 April 2019, as well as the trichloroethene concentrations detected in samples obtained from the Site-wide groundwater monitoring well network over time. This further shows that the trichloroethene concentrations in groundwater onsite is not contained to the eastern portion of the Site, as previously indicated.

Metal Detection. Debris piles and small grassy hills were observed along the northwestern corner of the property. Due to a visual inspection of the area which revealed obvious metal pieces in the area, Ambient walked the area with a metal detector on 6 May 2019. The metal detector was utilized to search for possible buried drums, tanks or other materials that could have influenced groundwater and soil sample results.

As indicated on the attached Figure 3, five centralized readings were observed in the subject area. Additionally, three locations were discovered where a positive reading was observed approximately 35 inches from a negative reading. This could indicate that a horizontal metal drum or pipe is buried below the surface [**NOTE-** historic air photos indicate that two small sheds were previously located in the northwest portion of the Site. The purpose of those sheds is not known, and the sheds are no longer present.]

Off-Site Source Investigation. Because groundwater flow at the Site has always been shown as being to the south-southwest, Ambient evaluated the potential presence of other sources of trichloroethene to groundwater from off-site, upgradient sources. Ambient utilized historic photographs of the area and researched operating procedures at upgradient sources in order to investigate the potential presence of an off-site source. Historic photographs indicate that a large industrial landfill may be located northeast of the Site in the presumed upgradient direction. The presumed landfill is on property owned (currently or previously) by Fiber Glass Industries, 69 Edson Street, adjacent to the subject Site. The photographs indicate a very large area of ground disturbance, as well as several large above ground tanks and a lagoon or pond at 69 Edson. Ambient currently does not know if trichloroethene was used at 69 Edson Street; we are continuing our evaluation.

Conclusions and Recommendations

Based on the information obtained during this limited SI, Ambient concludes that significant concentrations of VOCs and metals are not present in soil under the building floor or in the soil in the western parking lot area. VOCs were detected in groundwater samples collected from monitoring wells located in the previously untested northwestern portion of the Site. The concentrations of trichloroethene in samples collected from both recently-installed monitoring wells exceeded the NYS GWS. As indicated on the attached Figure 4, these results are consistent with past results presented by others as the concentrations of trichloroethene in samples from the wells MW-10, MW-11 and MW-12 (the existing monitoring wells closest to the newly-installed wells) historically contained trichloroethene at concentrations similar to those detected in samples from MW-22 and MW-23. Unfortunately, trichloroethene contour maps prepared by others indicated that the concentration of trichloroethene in groundwater in the northwestern portion of the Site was below 5 ppb (NYS GWS); therefore, previous Site evaluations did not consider the need for addressing trichloroethene in groundwater in this portion of the Site. Further evaluation of potential on-site and off-site source of VOCs to groundwater is needed. Remediation efforts will need to be expanded to address the northwest portion of the Site.

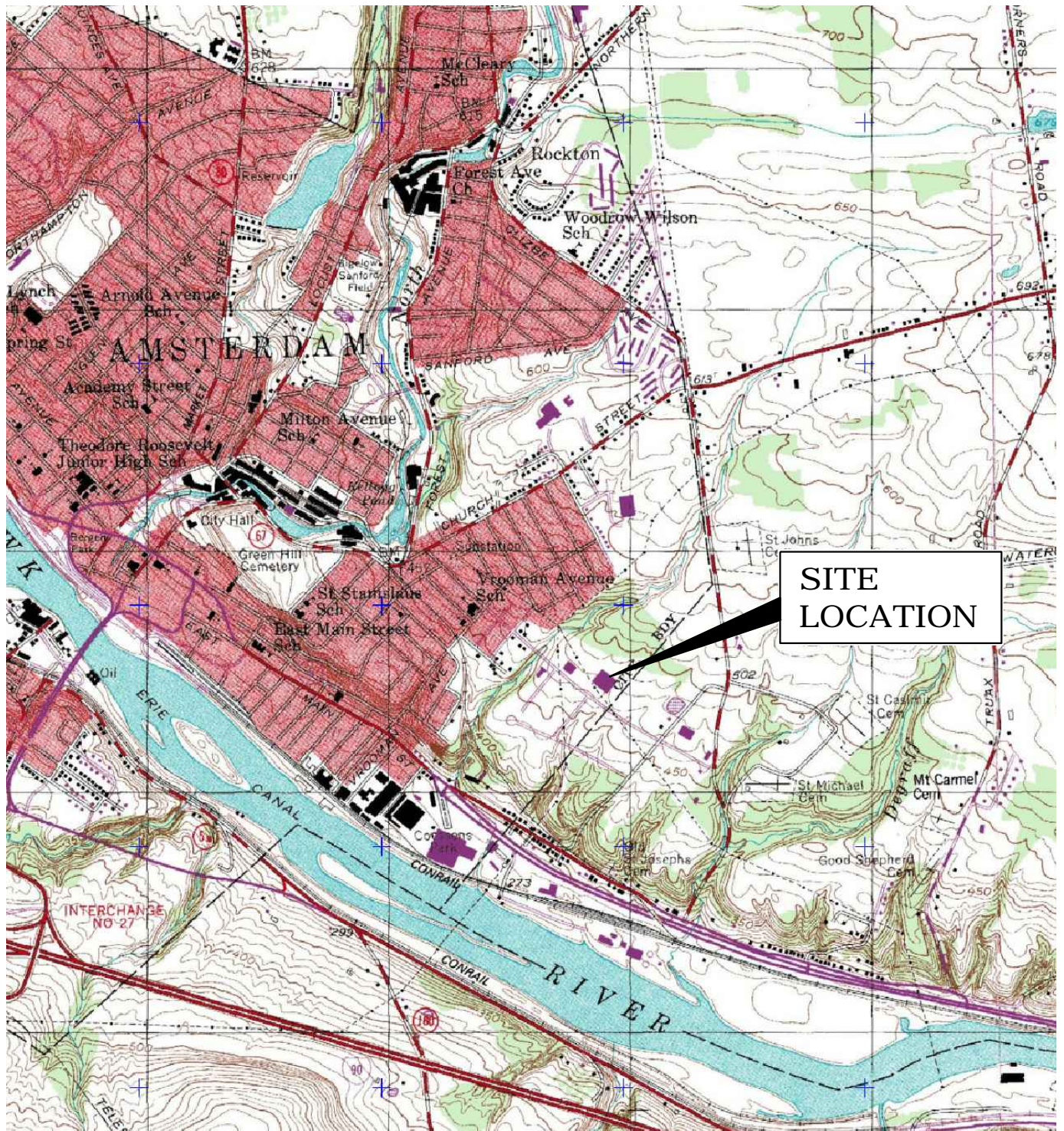
Ambient appreciates the opportunity to provide environmental consulting services. If you have any questions regarding this report, please contact me at (315) 263-3388 or by email (jimb@ambient-env.com). Thank you.

Respectfully;
Ambient Environmental, Inc.



James F. Blasting, PG
Senior Consultant

Attachments



0 2000'

SCALE (IN FEET)

USGS AMSTERDAM QUADRANGLE
NEW YORK

AMBIENT ENVIRONMENTAL, INC.
828 WASHINGTON AVENUE
ALBANY, NEW YORK 12203

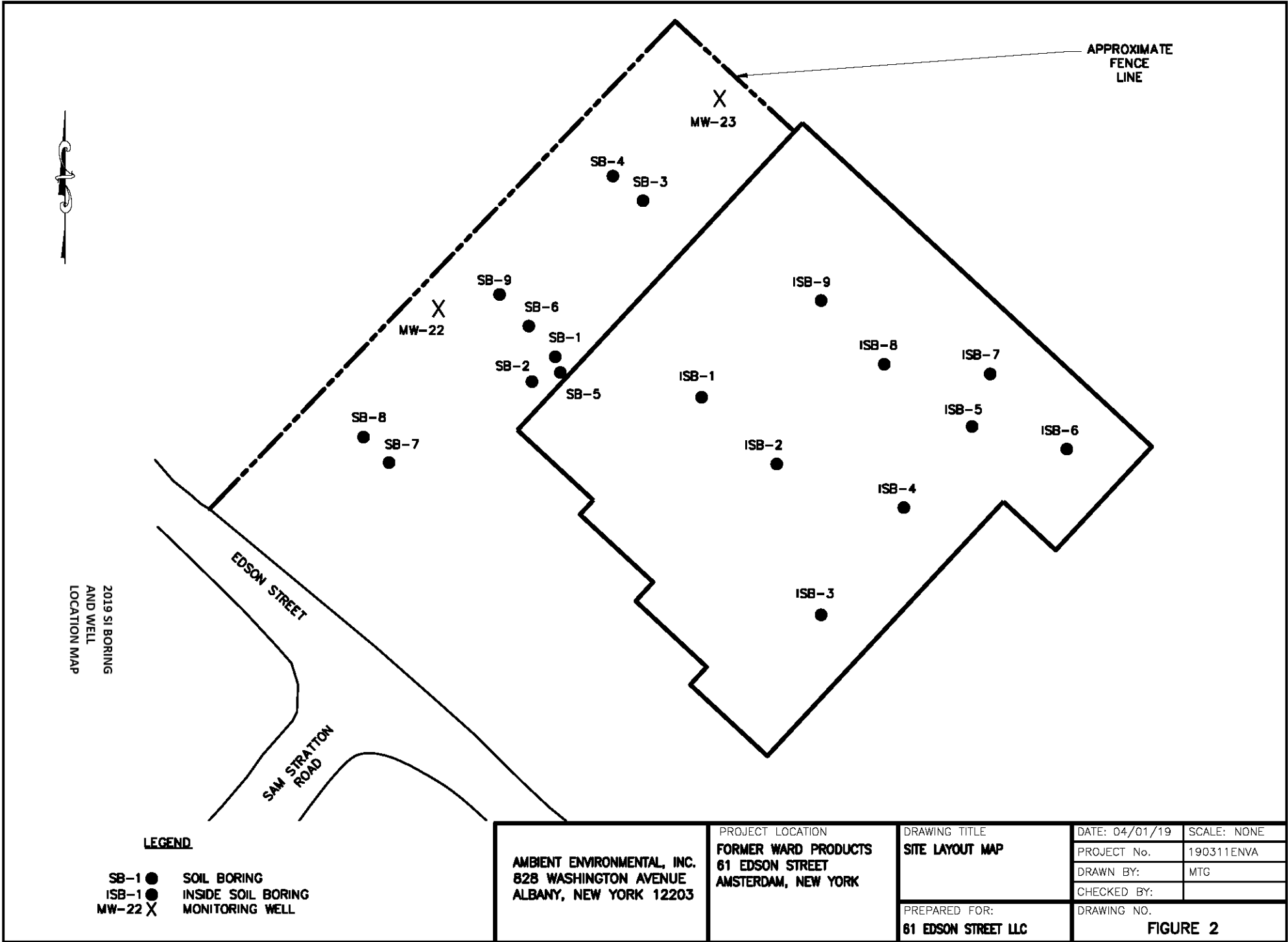
PROJECT LOCATION
FORMER WARD PRODUCTS
61 EDSON STREET
AMSTERDAM, NEW YORK

DRAWING TITLE
SITE LOCATION MAP

PREPARED FOR:
61 EDSON STREET LLC

DATE: 04/01/19	SCALE: AS NOTED
PROJECT NO.	190311ENVA
DRAWN BY:	MTG
CHECKED BY:	
DRAWING NO.	

FIGURE 1





Key



location of metal piece
location of metal pipe or drum

SUMMARY

On 6 May 2019, Alexis Martin of Ambient Environmental walked the subject area at 61 Edson Street with a metal detector. Findings indicated with a red ‘x’ represent locations where centralized readings were observed. Findings indicated with a red line represent locations where a positive reading was observed approximately 35 inches from a negative reading. This could mean that a horizontal metal drum or pipe is buried below the surface.

DRAWN BY AED	FIGURE TITLE METAL DETECTOR	
SCALE NTS	PROJECT LOCATION 61 EDSON STREET AMSTERDAM, NEW YORK	
DATE 5/6/19		
PROJECT # 190311ENVA	PREPARED FOR: Print Bear LLC	FIGURE NUMBER 3

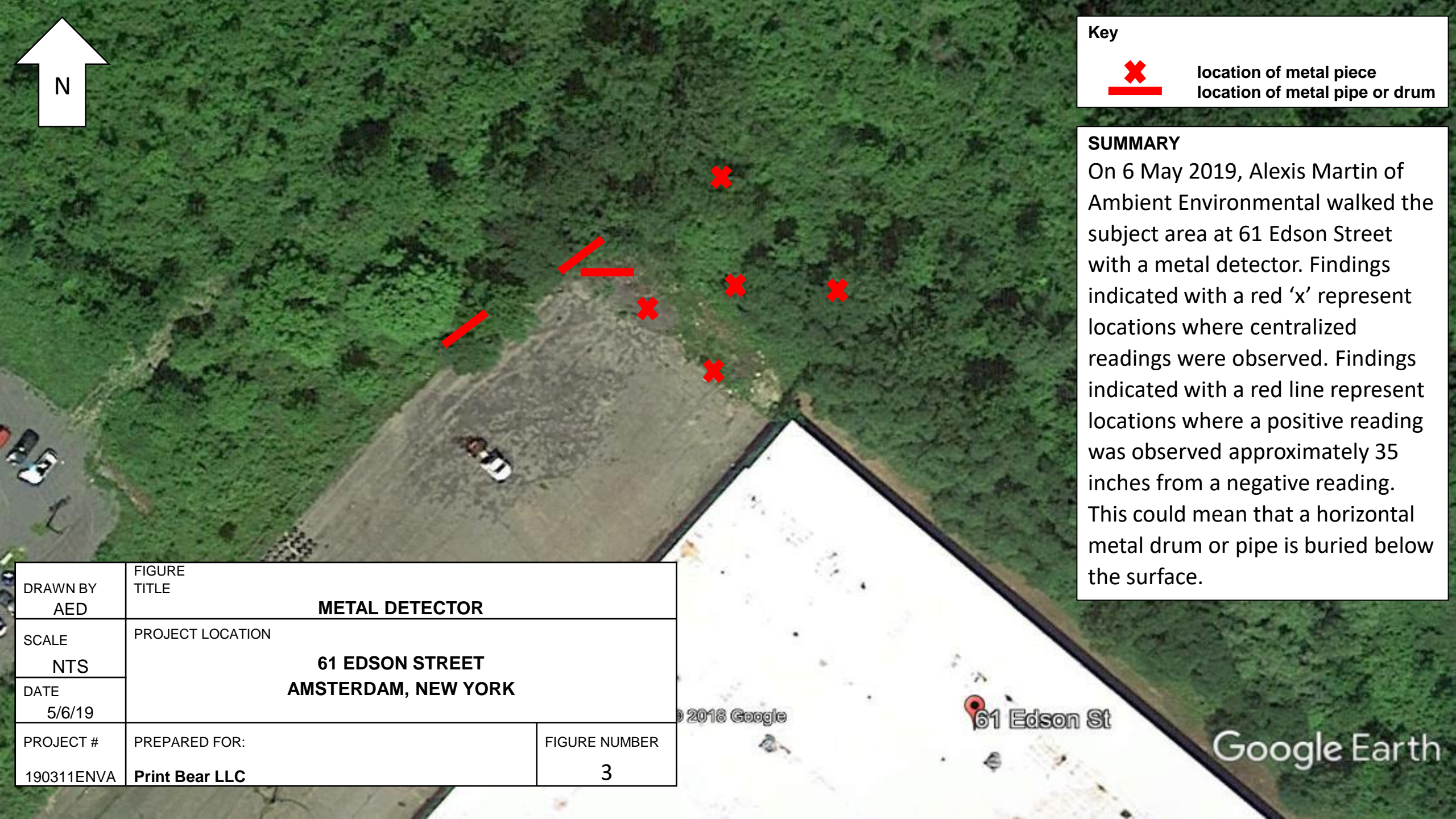




Figure 4
TCE Concentrations for Selected Well Locations
Supplemental Site Investigation
Former Ward Products Site
61 Edson Street, Amsterdam, NY
Prepared by Ambient Environmental, Inc.

Table 1
Soil Sample Results Presented by Ambient Environmental, 2019
61 Edson Street, Amsterdam, NY

Analyte	Unrestricted Use Cleanup Objectives (ppm)	Commercial Use Cleanup Objectives (ppm)	Sample ID				
			WC1	ISB-4	ISB-6	SB-2	SB-5
			3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019
Volatile Organic Compounds (VOCs)							
Acetone	0.05	500	0.028	ND	0.65	0.022	.0069 J
o-Xylene	0.26	500	0.0009 J	ND	ND	ND	ND
Ethylbenzene	1	390	0.00032 J	ND	ND	ND	ND
Trichloroethene	0.47	200	0.0009	110	0.56	0.0018	.00044 J
Methyl tert butyl ether	0.93	500	0.0003 J	ND	ND	.00022 J	ND
p/m - Xylene	0.26	500	0.0015 J	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.25	500	ND	.17 J	ND	ND	ND
Methyl Acetate	NS	NS	0.0074	2	3.3	.0027 J	.0018 J

Metals							
Arsenic	13	16	4.33	3.89	4.49	4.28	4.2
Barium	350	400	55.4	33.4	59.9	39.2	40.1
Cadmium	2.5	9.3	2.56	0.84	0.271 J	0.082 J	0.049 J
Chromium	30	1500	33.4	6.7	22.6	9.06	13.5
Lead	63	1000	80.3	5.78	7.65	7.03	7.62
Mercury	0.18	2.8 J	ND	ND	ND	ND	ND
Nickel	30	310	72.6	10.4	20.5	15.9	17
Selenium	4	1,500	ND	0.169 J	0.244 J	0.254 J	0.341 J
Silver	2	1,500	1.06	ND	ND	ND	ND
Zinc	109	10,000	2850	184	42.9 J	49.2	45.2

Notes:

All results reported in mg/kg - parts per million (ppm).

ND - Compound not detected.

BOLD - Unrestricted use cleanup objective exceedance

J - Estimated value. The target analyte concentration is below the quantitation limit (RL) but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analysis. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Only those compounds detected in at least one sample are presented on this table.

Table 2
Groundwater Sample Results Presented by Ambient 2019
61 Edson Street, Amsterdam, NY

Analyte	NYSDEC Groundwater Standard (ppb)	Sample ID						
		MW-22	MW-23	MW-5	MW-8	MW-10	MW-12	Trip Blank
		4/8/2019						
Volatile Organic Compounds (VOCs)								
Tetrachloroethene	5	0.59	ND	NA	NA	NA	NA	ND
1,1-Dichloroethene	5	0.57	0.54	NA	NA	NA	NA	ND
trans-1,2-Dichloroethene	5	ND	0.72 J	NA	NA	NA	NA	ND
Trichloroethene	5	78	96	NA	NA	NA	NA	0.23 J
cis-1,2-Dichloroethene	5	2.0 J	1.9 J	NA	NA	NA	NA	ND
Methyl cyclohexane	NS	0.55 J	0.70 J	NA	NA	NA	NA	ND

Analyte	NYSDEC Groundwater Standard (ppb)	Sample ID						
		MW-22	MW-23	MW-5	MW-8	MW-10	MW-12	Trip Blank
		5/3/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/3/2019
Volatile Organic Compounds (VOCs)								
Tetrachloroethene	5	0.29 J	ND	ND	55	1.2	ND	ND
1,1-Dichloroethene	5	0.38 J	0.57	ND	ND	1.6	0.34 J	ND
trans-1,2-Dichloroethene	5	ND	0.73 J	ND	ND	1.4 J	ND	ND
Trichloroethene	5	52	100	27	2400	170	30	ND
cis-1,2-Dichloroethene	5	1.5 J	2.0 J	1.3 J	ND	6.3	3.7	ND
Methyl cyclohexane	NS	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND	2.0 J

Notes:

All results reported in ug/l - parts per billion (ppb).

Only those compounds detected in at least one sample are presented on this table.

ND - Compound not detected.

NS- no standard

NA - sample not collected for analyses from this well

J- Estimated value. The target analyte concentration is below the quantitation limit (RL) but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analysis.

This represents an estimated concentration for Tentatively Identified Compounds (TICs)

BOLD- Exceedance

TEST BORING LOG

BORING NO.: ISB-1

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push			SAMPLER	BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe			Macrocore	NA	NA	NA
DRILLER: NYEG			INSPECTOR: Jim Blasting and Alexis Martin			DATE: 3/27/19
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0		<1			0 - 0.5' : Concrete	
2.0			5.0		0.5' - 5' : medium brown silt with clay, mottled, uniform, dry to moist, no odors, no staining, firm/stiff	
3.0						
4.0		1.4				
5.0		0.5				
6.0		0.5			5' - 6.75' : medium brown silt with clay, mottled, uniform, dry to moist, no odors, no staining, firm/stiff	
7.0		3.5	5.0		6.75' - 7.15' : light gray cobble	
8.0		0.5			7.15' - 8.5' : medium brown silt with clay, mottled, uniform, dry to moist, no odors, no staining, firm/stiff	
9.0		0.5			8.5' - 9' : light gray cobble	
10.0					9' - 10' : medium brown silt with clay, mottled, uniform, dry to moist, no odors, no staining, firm/stiff	
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: ISB-2

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0					0 - 0.5' : Concrete	
2.0					No Recovery	
3.0						
4.0						
5.0						
6.0		0.5			5' - 6.5' : medium brown silt with clay, mottled, uniform, dry to moist, no odors, no staining, firm/stiff	
7.0					6.7' - 6.7' : light gray cobble	
8.0		0.5			6.7' - 7.5' : medium brown silt with clay, mottled, uniform, dry to moist, no odors, no staining, firm/stiff	
9.0		0.7			7.5' - 7.6' : light gray cobble	
10.0					7.6' - 10' : medium brown fine sand, very dry, no odors, no staining	.5 ppm reading coming out of boring hole
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: ISB-3

PROJECT: Former Ward Products Site Investigation						Sheet 1 of 1			
CLIENT: 61 Edson Street LLC									
AMBIENT PROJECT NO: 190311ENVA									
DRILLING METHOD: Direct Push				SAMPLER		BIT SIZE	CORE	CASING	
DRILLING RIG: Geoprobe				Macrocore		NA	NA	NA	DATE: 3/27/19
DRILLER: NYEG				INSPECTOR: Jim Blasting and Alexis Martin					
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION			REMARKS	
1.0		1.6			0 - 0.5' : Concrete			1.2 - 1.5 ppm PID reading no staining no odors	
2.0		1.6	3.5		0.5' - 1.5' : medium brown silt with clay, mottled, uniform, dry to moist, no odors, no staining, firm/stiff				
3.0		1			1.5' - 3.5' : very firm, dark brown and gray clay with silt, few pebbles				
4.0					3.5' - 3.55' : organic layer				
5.0		1.2			3.55' - 5' : very firm, dark brown and gray clay with silt, few pebbles				
6.0					5' - 7.2' : medium brown clay with silt and few pebbles			no staining no odors	
7.0		0.2	5.0		7.2' - 8.5' : medium brown and gray plastic clay with silt, very moist				
8.0									
9.0					8.5' - 10' : medium brown silt with clay, firm/stiff, moist				
10.0									
11.0									
12.0									
13.0									
14.0									
15.0									
16.0									
17.0									
18.0									

TEST BORING LOG

BORING NO.: ISB-4

PROJECT: Former Ward Products Site Investigation						Sheet 1 of 1							
CLIENT: 61 Edson Street LLC													
AMBIENT PROJECT NO: 190311ENVA													
DRILLING METHOD: Direct Push				SAMPLER		BIT SIZE		CORE		CASING			
DRILLING RIG: Geoprobe				Macrocore		NA		NA		NA		DATE: 3/27/19	
DRILLER: NYEG				INSPECTOR: Jim Blasting and Alexis Martin									
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION						REMARKS		
1.0					0 - 0.5' : Concrete								
2.0					0.5' - 5' : very firm, dark brown silt with clay, mottled								
3.0		0.5	5.0										
4.0													
5.0													
6.0					5' - 6.5' : light gray cobble								
7.0					6.5' - 7.5' : medium brownish gray plastic clay with silt, very moist								
8.0	ISB-4	22	3.5		7.5' - 8.5' : dark gray, firm, moist, silt, little clay and pebbles, no odor, no staining								
9.0		35			Composite Sample ISB-4 (7.5-8.5)								
10.0					Refusal @ 8.5'								
11.0													
12.0													
13.0													
14.0													
15.0													
16.0													
17.0													
18.0													

TEST BORING LOG

BORING NO.: ISB-5

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				DATE: 3/27/19
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0					0 - 0.5' : Concrete	
2.0		2			0.5' - 4.5' : medium brown silt with clay, mottled, uniform, dry to moist	
3.0			5.0			
4.0		2.5			4.5' - 4.8' : light gray cobble	
5.0		3			4.8' - 5' : medium brown silt with clay, mottled, uniform, dry to moist	
6.0		2	1.9		5' - 6' : medium brown clay with silt, cobbles present throughout	
7.0					Refusal @ 6'	
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: ISB-6

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push			SAMPLER		BIT SIZE	CORE
DRILLING RIG: Geoprobe			Macrocore		NA	NA
DRILLER: NYEG			INSPECTOR: Jim Blasting and Alexis Martin		DATE: 3/27/19	
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0	ISB-6		2.0		0 - 0.9' : Concrete	No staining No odor No PID over 1 ppm
2.0					0.9' - 4.3' : medium brown silt with clay and fine sand, dry to moist, firm to very firm, uniform throughout	
3.0						
4.0					4.3' - 4.5' : very firm/hard till with silty clay, fine sand and cobbles	
5.0					Refusal @ 4.5' Composite Sample ISB-6 (3.5-4.5)	
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: ISB-7

PROJECT: Former Ward Products Site Investigation						Sheet 1 of 1			
CLIENT: 61 Edson Street LLC									
AMBIENT PROJECT NO: 190311ENVA									
DRILLING METHOD: Direct Push				SAMPLER		BIT SIZE	CORE	CASING	
DRILLING RIG: Geoprobe				Macrocore		NA	NA	NA	DATE: 3/27/19
DRILLER: NYEG				INSPECTOR: Jim Blasting and Alexis Martin					
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION			REMARKS	
1.0		5			0 - 0.5' : Concrete			No staining	
2.0					0.5' - 2.8' : medium brown silt with clay and some fine sand, some pebbles, moist, firm			No odor	
3.0			5.0		2.8' - 4' : dry silt, clayey, fine sand with cobbles and gravel			PID: 3-7 ppm throughout	
4.0					4' - 5' : medium brown silt with clay, some fine sand, very firm, moist				
5.0									
6.0					5' - 6' : medium brown silt with clay, some fine sand, very firm, moist				
7.0			2.6		6' - 6.5' : light gray cobble				
8.0					6.5' - 7' : medium brown silt with clay and sand, some pebbles				
9.0					7' - 7.4' : brown fine sand, moist to wet				
10.0					7.4' - 7.6' : very hard till with clay, silt, sand, pebbles Refusal @ 7.6				
11.0									
12.0									
13.0									
14.0									
15.0									
16.0									
17.0									
18.0									

TEST BORING LOG

BORING NO.: ISB-8

PROJECT: Former Ward Products Site Investigation						Sheet 1 of 1			
CLIENT: 61 Edson Street LLC									
AMBIENT PROJECT NO: 190311ENVA									
DRILLING METHOD: Direct Push				SAMPLER		BIT SIZE	CORE	CASING	
DRILLING RIG: Geoprobe				Macrocore		NA	NA	NA	DATE: 3/27/19
DRILLER: NYEG				INSPECTOR: Jim Blasting and Alexis Martin					
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION			REMARKS	
1.0					0 - 0.5' : Concrete				
2.0		3			0.5' - 4.6' : medium brown silt with clay and sand, pebbles and cobbles throughout, moist, firm, no odor, no staining				
3.0			5.0						
4.0		4.2			4.6' - 5' : light gray cobble				
5.0		4							
6.0		4			5' - 5.5' : cobble				
7.0		4.3			5.5' - 7.9' : medium brown silt with clay and sand, pebles throughout, moist, firm, no odor, no staining				
8.0			5.0		7.9' - 10' : till, gray/brown, cobbles and pebbles throughout, firm, moist				
9.0		4							
10.0									
11.0									
12.0									
13.0									
14.0									
15.0									
16.0									
17.0									
18.0									

TEST BORING LOG

BORING NO.: ISB-9

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				DATE: 3/27/19
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0		3			0 - 0.5' : Concrete	
2.0					0.5' - 5' : medium brown silt with clay and sand, moist, firm,	
3.0			5.0		no odor, cobbles and gravel throughout	
4.0						
5.0		4.2				
6.0			3.0		5' - 5.5' : medium brown silt with clay and sand, moist, firm,	
7.0					no odor, cobbles and gravel throughout	
8.0					Refusal @ 5.5'	
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: SB-1

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0		1			0-1' : pavement and gravel	
2.0					1' - 1.8' : loose sand and gravel fill	
3.0			5.0		1.8' - 5' : medium brown silt and clay, moist, no odor, no staining, firm	
4.0						
5.0						
6.0		<.5			5' - 6.5' : medium brown silt and clay, very moist, gravel pieces throughout, no odor	
7.0			3.7		Refusal @ 6.5'	
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: SB-2

PROJECT: Former Ward Products Site Investigation						Sheet 1 of 1			
CLIENT: 61 Edson Street LLC									
AMBIENT PROJECT NO: 190311ENVA									
DRILLING METHOD: Direct Push				SAMPLER		BIT SIZE	CORE	CASING	
DRILLING RIG: Geoprobe				Macrocore		NA	NA	NA	DATE: 3/27/19
DRILLER: NYEG				INSPECTOR: Jim Blasting and Alexis Martin					
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION			REMARKS	
1.0		1.5			0 - 0.3' : Pavement			1-1.5 PID	
2.0					0.3' - 1' : fill: sub-base (sand and gravel, moist)			no odor	
3.0			2.8		1' - 5' : medium brown, firm, dry to moist, silt with clay, sand and gravel (rounded) and rounded pebbles. Very firm at 5'			no staining	
4.0									
5.0									
6.0					5' - 8' : very firm, clay rich till with pebbles and gravel, medium brown, dry to moist			no odor	
7.0								no staining	
8.0			5.0		8' - 10' : plastic with more clay, medium brown, firm, moist				
9.0	SB-2				Composite Sample SB-2 (8-9')			3 ppm in bag	
10.0								headspace ~ 8.5'	
11.0									
12.0									
13.0									
14.0									
15.0									
16.0									
17.0									
18.0									

TEST BORING LOG

BORING NO.: SB-3

PROJECT: Former Ward Products Site Investigation						Sheet 1 of 1			
CLIENT: 61 Edson Street LLC									
AMBIENT PROJECT NO: 190311ENVA									
DRILLING METHOD: Direct Push				SAMPLER		BIT SIZE	CORE	CASING	
DRILLING RIG: Geoprobe				Macrocore		NA	NA	NA	DATE: 3/28/19
DRILLER: NYEG				INSPECTOR: Jim Blasting and Alexis Martin					
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION				REMARKS
1.0			5.0		0 - 0.3' : Pavement				<2 ppm no odor no staining
2.0					0.3' - 1' : fill and sub-base (sand and gravel)				
3.0					1' - 2.5' : gravely brownish gray silt and clay				
4.0					2.5' - 5' : medium brown, firm, dry to moist, silt with clay,				
5.0					rounded pebbles and angular gravel pieces				
6.0			5.0		5' - 9' : medium brown, firm, dry to moist, silt with clay,				<2 ppm
7.0					rounded pebbles and angular gravel pieces				
8.0					Refusal @ 9'				
9.0									
10.0									
11.0									
12.0									
13.0									
14.0									
15.0									
16.0									
17.0									
18.0									

TEST BORING LOG

BORING NO.: SB-4

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE		CORE
DRILLING RIG: Geoprobe		Macrocore		NA		NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0					0 - 0.3' : Pavement	
2.0					0.3' - 1' : fill with sub-base	
3.0		<1.5	4.0		1' - 1.5' : medium brown silt with clay, moist, firm, pebbles and gravel	no odor
4.0					1.5' - 2' : light gray cobble	no staining
5.0					2' - 4' : medium brown silt with clay, moist, firm	
					Refusal @ 4'	
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: SB-5

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				DATE: 3/28/19
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0	SB-5		5.0		0 - 0.3' : Pavement	PID readings <2 ppm
2.0					0.3' - 1' : sub-base material (sand and gravel)	
3.0					1' - 5' : medium brown silt with clay, moist, firm, no odor, gravel and pebbles	
4.0					<i>Composite Sample SB-5 (4.5-5')</i>	
5.0						
6.0					5' - 7' : same as above with more angular gravel pieces and rounded pebbles	
7.0					Refusal @ 7'	
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: SB-6

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				DATE: 3/28/19
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0					0 - 0.3' : Pavement	
2.0		2.8	4.8		0.3' - 1' : sub-base material (gravel and sand)	
3.0		2.6			1' - 5' : medium brown silt and clay, moist, firm, no odor,	
4.0		2.9			pebbles and gravel pieces present, no staining	
5.0		2.6				
6.0					5' - 10' : medium brown silt and clay, moist, firm, no odor,	
7.0					pebbles and gravel pieces present, no staining	
8.0		2.7	4.8			
9.0		1.5				
10.0		2.8				
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: SB-7

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				DATE: 3/28/19
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0		0.6			0 - 0.3' : Pavement	no odor no staining
2.0					0.3' - 1' : sub-base material (sand and gravel)	
3.0			5.0		1' - 1.8' : grayish brown silt and clay, firm, moist, pebbles and gravel pieces	
4.0		1.3			1.8' - 3.7' : medium brown silt and clay, firm	
5.0		0.6			3.7' - 4.3' : softer, little more clay	
6.0					4.3' - 5' : medium brown silt and clay, firm, gravel and pebble, moist	no odor no staining
7.0					5' - 10' : same as above	
8.0		0.5				
9.0						
10.0		2				
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG

BORING NO.: SB-8

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0					0 - 0.3' : Pavement	
2.0					0.3' - 1' : sub-base material (sand and gravel)	no odor
3.0			5.0		1' - 5' : medium brown, silt and clay, moist, firm, gravel and	no staining
4.0		1			round pebbles, no odor, no staining	
5.0		0.4				
6.0					5' - 10' : same as above, more round gravel and pebbles	no odor
7.0		1				no staining
8.0		0.5	5.0			
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

TEST BORING LOG
BORING NO.: SB-3

PROJECT: Former Ward Products Site Investigation					Sheet 1 of 1	
CLIENT: 61 Edson Street LLC						
AMBIENT PROJECT NO: 190311ENVA						
DRILLING METHOD: Direct Push		SAMPLER		BIT SIZE	CORE	CASING
DRILLING RIG: Geoprobe		Macrocore		NA	NA	NA
DRILLER: NYEG		INSPECTOR: Jim Blasting and Alexis Martin				DATE: 3/28/19
DEPTH IN FT.	SAMPLE NO.	PID reading	REC.	USCS Class	SOIL DESCRIPTION	REMARKS
1.0					0 - 0.3' : Pavement	
2.0					0.3' - 1' : sub-base material (sand and gravel)	no odor
3.0					1' - 4.6' : medium gray, silt and clay, firm, moist, gravel and pebbles, no odor, no staining	no staining
4.0		0.5			4.6' - 5' : light gray cobble	
5.0						
6.0					5' - 10' : medium gray, silt and clay, firm, moist, gravel and pebbles, no odor, no staining	
7.0						
8.0		0.5				
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						

Injection Well Purging/Sampling Form

Project Name and Number: 61 Edison St, Amsterdam, NY 12031 ENVA
 Monitoring Well Number: MW-22 Date: 4/8/19
 Samplers: Zack Robison AAL
 Sample Number: 2 QA/QC Collected? N/A
 Purging / Sampling Method: Geopump / Low Flow

1. L = Total Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Static Depth to Water (TOC):
4. C = Column of Water in Casing:
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$
6. D2 = Pump Setting Depth (ft):
7. C2 = Column of water in Pump/Tubing (ft):
8. Tubing Volume = $C2(0.005737088)$

49.75 feet
2 in feet
18.12 feet
31.63 feet
5.16 gal
40.0 feet
 feet
 gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI Pro DSS w/ Flow Cell

Parameter	Units	1515	Readings					
Time	24 hr							
Water Level (0.33)	feet	<u>42.6</u>						
Volume Purged	gal	<u>—</u>						
Flow Rate	mL / min	<u>100 mL</u>						
Turbidity (+/- 10%)	NTU	<u>747.28</u>						
Dissolved Oxygen (+/- 10%)	%	<u>68.0</u>						
Dissolved Oxygen (+/- 10%)	mg/L	<u>6.95</u>						
Eh / ORP (+/- 10)	MeV	<u>187.4</u>						
Specific Conductivity	mS/cm ^c	<u>0.848</u>						
Conductivity (+/- 3%)	umho / cm							
pH (+/- 0.1)	pH unit	<u>7.42</u>						
Temp (+/- 0.5)	C	<u>14.1</u>						
Color	Visual	<u>clear</u>						
Odor	Olfactory	<u>N/A</u>						

Comments:

Well in good condition / No Odor
Developed well before Sampled
Clear → Turbid (Brown)

*Well water did not get back to static level

* Three consecutive readings within range indicates stabilization of that parameter.

Not enough volume/recharge to get 3 Stable readings. Only 1 reading of parameters taken.

49.75
- 18.12
31.63 x 0.163
= 5.16 gal
x 3 volumes
= 15.46 gal
(Purge to Develop)

~ 11 gallons
Purged until
dry.
(Developed)

Injection Well Purging/Sampling Form

Project Name and Number:

61 Edison St, Amsterdam, NY 12031 ENVA

Monitoring Well Number:

MW-23 Date: 4/8/19

Samplers:

Zack Robison AAL

Sample Number:

1 QA/QC Collected? N/A

Purging / Sampling Method:

Geopump / Low Flow

1. L = Total Well Depth:

45.95 feet

2. D = Riser Diameter (I.D.):

2.0 feet

3. W = Static Depth to Water (TOC):

17.90 feet

4. C = Column of Water in Casing:

28.05 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

4.57 gal

6. D2 = Pump Setting Depth (ft):

37.0 feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YST Pro DSS w flow cell

Parameter	Units	Readings					
Time	24 hr	1335	1340	1345	1350	1355	
Water Level (0.33)	feet	17.85	17.87	17.87	17.87	17.87	
Volume Purged	gal						21 gal total
Flow Rate	mL / min	100 mL	100 mL	100 mL	100 mL	100 mL	
Turbidity (+/- 10%)	NTU	34.54	54.59	49.17	48.10	48.75	
Dissolved Oxygen (+/- 10%)	%	3.2	2.7	2.5	2.4	2.3	
Dissolved Oxygen (+/- 10%)	mg/L	0.34	0.29	0.28	0.26	0.28	
Eh / ORP (+/- 10)	MeV	203.8	200.6	199.6	196.1	197.3	
Specific Conductivity	mS/cm ^c	0.741	0.745	0.741	0.740	0.741	
Conductivity (+/- 3%)	umho / cm						
pH (+/- 0.1)	pH unit	7.28	7.28	7.28	7.29	7.28	
Temp (+/- 0.5)	C	12.1	11.8	11.7	12.0	12.3	
Color	Visual	Clear					
Odor	Olfactory	N/A					

Comments:

Well in Good Condition / No odor standing water in casing (Purged out)

Developed well before sampling clear → clear

* Three consecutive readings within range indicates stabilization of that parameter.

45.95
- 17.90
= 28.05 x 0.163
= 4.57 x 3
vol
= 13.72 gal
(Purge to Develop)

~ 14 gallons
Purged
(Developed)

Injection Well Purging/Sampling Form

Project Name and Number:

61 Edison St, Amsterdam NY, 190311 ENVH

Monitoring Well Number:

MW-22

Date: 5/5/19

Samplers:

Eric Swartzmeyer

Sample Number:

6

QA/QC Collected? N/A

Purging / Sampling Method:

Geo Pump / Low Flow

1. L = Total Well Depth:

49.80 feet

2. D = Riser Diameter (I.D.):

2 in feet

3. W = Static Depth to Water (TOC):

17.80 feet

4. C = Column of Water in Casing:

32.0 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

5.21 gal

6. D2 = Pump Setting Depth (ft):

25 feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro DSS w/ Flow Cell

Parameter	Units	Readings						
Time	24 hr	0825	0830	0835	0840	0845	0850	0855
Water Level (0.33)	feet	17.80	17.88	17.91	17.95	18.00	18.03	18.05
Volume Purged	gal							
Flow Rate	mL / min	100 mL						
Turbidity (+/- 10%)	NTU	113.46	121.02	122.60	121.07	7.93	5.54	4.95
Dissolved Oxygen (+/- 10%)	%	52.7	46.5	42.7	41.7	40.1	39.8	39.3
Dissolved Oxygen (+/- 10%)	mg/L	5.62	5.04	4.64	4.46	4.40	4.38	4.33
Eh / ORP (+/- 10)	MeV	213.2	216.4	216.4	216.4	216.5	216.5	216.5
Specific Conductivity	mS/cm ²	0.886	0.894	0.894	0.893	0.893	0.892	0.892
Conductivity (+/- 3%)	µmho / cm							
pH (+/- 0.1)	pH unit	7.45	7.45	7.45	7.45	7.45	7.45	7.46
Temp (+/- 0.5)	C	11.0	11.3	11.3	11.3	11.3	11.2	11.3
Color	Visual	Clear						
Odor	Olfactory	None						

Comments: Well is in good Condition/No Odor/Clear
Sampling Time @ 0855

* Three consecutive readings within range indicates stabilization of that parameter.

Injection Well Purging/Sampling Form

Project Name and Number:

G1 Edison St, Amsterdam NY, 190311 ENVA

Monitoring Well Number:

MV-8

Date: 5/2/19

Samplers:

Eric Swartzmeyer

Sample Number:

1

QA/QC Collected? N/A

Purging / Sampling Method:

Geo Pump / Low Flow

1. L = Total Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Static Depth to Water (TOC):
4. C = Column of Water in Casing:
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$
6. D2 = Pump Setting Depth (ft):
7. C2 = Column of water in Pump/Tubing (ft):
8. Tubing Volume = $C2(0.005737088)$

80.65 feet
2 in feet
12.61 feet
68.04 feet
11.09 gal
60.0 feet
feet
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

Pro DSS w/ Flow Cell

Parameter	Units	Readings						
Time	24 hr	0735	0740	0745	0750	0755	0800	0805
Water Level (0.33)	feet	12.61	12.60	12.61	12.61	12.61	12.61	12.61
Volume Purged	gal							
Flow Rate	mL / min	100mL						
Turbidity (+/- 10%)	NTU	49.50	57.55	60.28	61.31	60.59	60.89	60.74
Dissolved Oxygen (+/- 10%)	%	36.4	30.3	28.0	27.1	26.3	25.9	25.8
Dissolved Oxygen (+/- 10%)	mg/L	4.13	3.49	3.23	3.11	3.03	3.00	2.98
Eh / ORP (+/- 10)	MeV	209.3	210.1	210.2	210.6	211.0	211.4	211.6
Specific Conductivity	mS/cm ^c	0.494	0.504	0.510	0.512	0.516	0.519	0.518
Conductivity (+/- 3%)	µmho / cm							
pH (+/- 0.1)	pH unit	7.43	7.44	7.44	7.44	7.44	7.44	7.44
Temp (+/- 0.5)	C	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Color	Visual	Clear						
Odor	Olfactory	None						

Comments: Well in good condition / No Odor
Sample Collected @ 0805

* Three consecutive readings within range indicates stabilization of that parameter.

Injection Well Purging/Sampling Form

Project Name and Number: G1 Edison St, Amsterdam NY, 190311 ENV4

Monitoring Well Number: MW-5 Date: 5/2/19

Samplers: Eric Swertzeneyer

Sample Number: 2 QA/QC Collected? N/A

Purging / Sampling Method: Geo Pump / Low Flow

1. L = Total Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Static Depth to Water (TOC):
4. C = Column of Water in Casing:
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$
6. D2 = Pump Setting Depth (ft):
7. C2 = Column of water in Pump/Tubing (ft):
8. Tubing Volume = $C2(0.005737088)$

18.35 feet
~~2 inch~~ feet
16.60 feet
1.75 feet
0.28 gal
17.0 feet
 feet
 gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

Pro DSS w/ Flow Cell

Parameter	Units	Readings					
Time	24 hr	0845	0850	0855	0900	0905	
Water Level (0.33)	feet	16.60	17.81	15.28	15.31	15.38	
Volume Purged	gal						
Flow Rate	mL / min	100mL					
Turbidity (+/- 10%)	NTU	5.23	2.58	2.13	2.86	2.41	
Dissolved Oxygen (+/- 10%)	%	43.6	38.4	41.2	39.4	40.7	
Dissolved Oxygen (+/- 10%)	mg/L	5.59	4.52	4.80	4.78	4.82	
Eh / ORP (+/- 10)	MeV	221.5	222.8	223.7	223.9	224.1	
Specific Conductivity	mS/cm ^c	0.662	0.663	0.662	0.662	0.663	
Conductivity (+/- 3%)	µmho / cm						
pH (+/- 0.1)	pH unit	7.10	7.10	7.11	7.11	7.10	
Temp (+/- 0.5)	C	8.4	8.3	8.4	8.5	8.4	
Color	Visual	Clear					
Odor	Olfactory	None					

Comments: Well in good condition / No Odor / Clear
Sample Taken @ 0905

* Three consecutive readings within range indicates stabilization of that parameter.

Injection Well Purging/Sampling Form

Project Name and Number:

G1 Edison St, Amsterdam NY, 190311 ENVA

Monitoring Well Number:

MW-10

Date: 5/2/19

Samplers:

Eric Swartzmeyer

Sample Number:

3

QA/QC Collected?

N/A

Purging / Sampling Method:

Geo Pump / Low Flow

1. L = Total Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Static Depth to Water (TOC):

4. C = Column of Water in Casing:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. D2 = Pump Setting Depth (ft):

7. C2 = Column of water in Pump/Tubing (ft):

8. Tubing Volume = $C2(0.005737088)$

20.42 feet
 2.0 inches
 52.25 feet
 31.83 feet
 5.18 gal
 35.0 feet
 feet
 gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro DSS w/ Flow Cell

Parameter	Units	Readings						
Time	24 hr	1040	1045	1050	1055	1100	1105	1110
Water Level (0.33)	feet	20.42	20.42	20.42	20.42	20.42	20.42	20.42
Volume Purged	gal							1 gal
Flow Rate	mL / min	100mL						
Turbidity (+/- 10%)	NTU	90.51	94.57	92.17	34.99	35.66	34.89	35.23
Dissolved Oxygen (+/- 10%)	%	17.1	9.0	5.0	4.0	3.1	3.0	2.9
Dissolved Oxygen (+/- 10%)	mg/L	1.77	0.98	0.54	0.43	0.40	0.38	0.37
Eh / ORP (+/- 10)	MeV	219.2	221.0	221.6	221.5	220.8	220.6	220.5
Specific Conductivity	mS/cm ^c	0.693	0.687	0.705	0.705	0.704	0.703	0.703
Conductivity (+/- 3%)	µmho / cm							
pH (+/- 0.1)	pH unit	7.26	7.26	7.24	7.24	7.25	7.25	7.25
Temp (+/- 0.5)	C	11.6	11.4	11.4	11.4	11.4	11.4	11.4
Color	Visual	Clear						
Odor	Olfactory	None						

Comments: Well in good condition / No Odor / Clear
 Sample Time @ 11:10

* Three consecutive readings within range indicates stabilization of that parameter.

Injection Well Purging/Sampling Form

Project Name and Number:

G1 Edison St Amsterdam NY 190311 ENVA

Monitoring Well Number:

MW-23

Date: 5/2/19

Samplers:

Eric Swartzmeyer

Sample Number:

4

QA/QC Collected? N/A

Purging / Sampling Method:

Geo Pump / Low Flow

1. L = Total Well Depth:

45.45 feet

2. D = Riser Diameter (I.D.):

2 in feet

3. W = Static Depth to Water (TOC):

17.60 feet

4. C = Column of Water in Casing:

27.85 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

4.53 gal

6. D2 = Pump Setting Depth (ft):

30.0 feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI Pro DSS w/ Flow Cell

Parameter	Units	Readings							
Time	24 hr	1200	1205	1210	1215	1220	1225	1230	
Water Level (0.33)	feet	17.60	17.71	17.71	17.71	17.71	17.71	17.71	
Volume Purged	gal								2 gal
Flow Rate	mL / min	100 mL							
Turbidity (+/- 10%)	NTU	185.62	236.11	251.40	220.51	221.61	220.97	221.23	
Dissolved Oxygen (+/- 10%)	%	20.2	7.0	6.9	7.2	6.8	6.6	6.5	
Dissolved Oxygen (+/- 10%)	mg/L	2.10	0.77	0.76	0.81	0.74	0.73	0.71	
Eh / ORP (+/- 10)	MeV	204.6	180.4	174.0	169.3	166.8	165.2	164.8	
Specific Conductivity	mS/cm ²	0.738	0.739	0.737	0.744	0.742	0.740	0.739	
Conductivity (+/- 3%)	µmho / cm								
pH (+/- 0.1)	pH unit	7.21	7.17	7.18	7.19	7.19	7.20	7.20	
Temp (+/- 0.5)	C	11.0	10.8	10.8	10.8	10.8	10.9	10.9	
Color	Visual	Clear							
Odor	Olfactory	None							

Comments: Well is in good condition / No Odor / Clear
Sample Time @ 1230

* Three consecutive readings within range indicates stabilization of that parameter.

Injection Well Purging/Sampling Form

Project Name and Number:

G1 Edison St Amsterdam NY 190311 ENVA

Monitoring Well Number:

MW-12

Date: 5/3/19

Samplers:

Eric Swartzmeyer

Sample Number:

5

QA/QC Collected? N/A

Purging / Sampling Method:

Geo Pump / Low Flow

1. L = Total Well Depth:

45.75 feet

2. D = Riser Diameter (I.D.):

2 in feet

3. W = Static Depth to Water (TOC):

17.52 feet

4. C = Column of Water in Casing:

28.23 feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

4.60 gal

6. D2 = Pump Setting Depth (ft):

30.0 feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI ProDSS w/ Flow Cell

Parameter	Units	Readings						
Time	24 hr	0735	0740	0745	0750	0755	0800	0805
Water Level (0.33)	feet	17.52	18.85	19.00	19.15	19.20	19.25	19.30
Volume Purged	gal							
Flow Rate	mL / min	100mL						
Turbidity (+/- 10%)	NTU	24.01	17.29	17.60	15.01	14.60	14.51	14.27
Dissolved Oxygen (+/- 10%)	%	75.6	65.3	64.8	64.6	64.2	64.3	64.6
Dissolved Oxygen (+/- 10%)	mg/L	5.30	7.26	7.20	7.16	7.12	7.13	7.13
Eh / ORP (+/- 10)	MeV	253.5	250.5	229.8	229.4	229.0	228.9	228.6
Specific Conductivity	mS/cm ^c	0.588	0.597	0.598	0.597	0.598	0.598	0.598
Conductivity (+/- 3%)	umho / cm							
pH (+/- 0.1)	pH unit	7.48	7.54	7.55	7.56	7.57	7.57	7.57
Temp (+/- 0.5)	C	10.9	10.6	10.6	10.7	10.7	10.7	10.7
Color	Visual	Clear						
Odor	Olfactory	None						

Comments: Well is in good condition / No Odor / Clear

Sample Collected @ 0805

* Three consecutive readings within range indicates stabilization of that parameter.



ANALYTICAL REPORT

Lab Number:	L1912354
Client:	Ambient Environmental 7843 Karakul Lane Fayetteville, NY 13066
ATTN:	Jim Blasting
Phone:	(315) 203-3355
Project Name:	FORMER WARD PRODUCTS SITE
Project Number:	190311ENVA
Report Date:	04/04/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1912354-01	WC1	SOIL	61 EDSON STREET	03/27/19 16:30	03/28/19
L1912354-02	ISB-6 (3.5-4')	SOIL	61 EDSON STREET	03/27/19 13:43	03/28/19
L1912354-03	ISB-4 (7.5-8.5')	SOIL	61 EDSON STREET	03/27/19 12:15	03/28/19
L1912354-04	SB-2 (8-9')	SOIL	61 EDSON STREET	03/27/19 17:50	03/28/19
L1912354-05	SB-5 (4.5-5')	SOIL	61 EDSON STREET	03/28/19 09:27	03/28/19

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Amita Naik

Title: Technical Director/Representative

Date: 04/04/19

ORGANICS

VOLATILES

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-01
Client ID: WC1
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 16:30
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/03/19 19:12
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	0.32	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	0.90		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-01
Client ID: WC1
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 16:30
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	0.30	J	ug/kg	2.2	0.22	1
p/m-Xylene	1.5	J	ug/kg	2.2	0.62	1
o-Xylene	0.90	J	ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	28		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	7.4		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	89	39.	1
Freon-113	ND		ug/kg	4.5	0.77	1
Methyl cyclohexane	ND		ug/kg	4.5	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	91		70-130

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-02
Client ID: ISB-6 (3.5-4')
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 13:43
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/03/19 21:40
Analyst: NLK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	55	8.0	1
Chloroform	ND		ug/kg	83	7.7	1
Carbon tetrachloride	ND		ug/kg	55	13.	1
1,2-Dichloropropane	ND		ug/kg	55	6.9	1
Dibromochloromethane	ND		ug/kg	55	7.7	1
1,1,2-Trichloroethane	ND		ug/kg	55	15.	1
Tetrachloroethene	ND		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.0	1
Trichlorofluoromethane	ND		ug/kg	220	38.	1
1,2-Dichloroethane	ND		ug/kg	55	14.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.2	1
Bromodichloromethane	ND		ug/kg	28	6.0	1
trans-1,3-Dichloropropene	ND		ug/kg	55	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.7	1
Bromoform	ND		ug/kg	220	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.2	1
Benzene	ND		ug/kg	28	9.2	1
Toluene	ND		ug/kg	55	30.	1
Ethylbenzene	ND		ug/kg	55	7.8	1
Chloromethane	ND		ug/kg	220	51.	1
Bromomethane	ND		ug/kg	110	32.	1
Vinyl chloride	ND		ug/kg	55	18.	1
Chloroethane	ND		ug/kg	110	25.	1
1,1-Dichloroethene	ND		ug/kg	55	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	83	7.6	1
Trichloroethene	560		ug/kg	28	7.6	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.0	1

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-02
Client ID: ISB-6 (3.5-4')
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 13:43
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	110	8.2	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.4	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	31.	1
o-Xylene	ND		ug/kg	55	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	55	9.7	1
Styrene	ND		ug/kg	55	11.	1
Dichlorodifluoromethane	ND		ug/kg	550	50.	1
Acetone	650		ug/kg	550	260	1
Carbon disulfide	ND		ug/kg	550	250	1
2-Butanone	ND		ug/kg	550	120	1
4-Methyl-2-pentanone	ND		ug/kg	550	71.	1
2-Hexanone	ND		ug/kg	550	65.	1
Bromochloromethane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	55	15.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	55.	1
Isopropylbenzene	ND		ug/kg	55	6.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
Methyl Acetate	3300		ug/kg	220	52.	1
Cyclohexane	ND		ug/kg	550	30.	1
1,4-Dioxane	ND		ug/kg	4400	1900	1
Freon-113	ND		ug/kg	220	38.	1
Methyl cyclohexane	ND		ug/kg	220	33.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-03 D
Client ID: ISB-4 (7.5-8.5')
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 12:15
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/03/19 22:05
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	2300	1100	10
1,1-Dichloroethane	ND		ug/kg	470	68.	10
Chloroform	ND		ug/kg	700	65.	10
Carbon tetrachloride	ND		ug/kg	470	110	10
1,2-Dichloropropane	ND		ug/kg	470	58.	10
Dibromochloromethane	ND		ug/kg	470	65.	10
1,1,2-Trichloroethane	ND		ug/kg	470	120	10
Tetrachloroethene	ND		ug/kg	230	92.	10
Chlorobenzene	ND		ug/kg	230	59.	10
Trichlorofluoromethane	ND		ug/kg	1900	320	10
1,2-Dichloroethane	ND		ug/kg	470	120	10
1,1,1-Trichloroethane	ND		ug/kg	230	78.	10
Bromodichloromethane	ND		ug/kg	230	51.	10
trans-1,3-Dichloropropene	ND		ug/kg	470	130	10
cis-1,3-Dichloropropene	ND		ug/kg	230	74.	10
Bromoform	ND		ug/kg	1900	120	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	230	78.	10
Benzene	ND		ug/kg	230	78.	10
Toluene	ND		ug/kg	470	250	10
Ethylbenzene	ND		ug/kg	470	66.	10
Chloromethane	ND		ug/kg	1900	440	10
Bromomethane	ND		ug/kg	940	270	10
Vinyl chloride	ND		ug/kg	470	160	10
Chloroethane	ND		ug/kg	940	210	10
1,1-Dichloroethene	ND		ug/kg	470	110	10
trans-1,2-Dichloroethene	ND		ug/kg	700	64.	10
Trichloroethene	110000		ug/kg	230	64.	10
1,2-Dichlorobenzene	ND		ug/kg	940	67.	10

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-03 D
Client ID: ISB-4 (7.5-8.5')
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 12:15
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	940	69.	10
1,4-Dichlorobenzene	ND		ug/kg	940	80.	10
Methyl tert butyl ether	ND		ug/kg	940	94.	10
p/m-Xylene	ND		ug/kg	940	260	10
o-Xylene	ND		ug/kg	470	140	10
cis-1,2-Dichloroethene	170	J	ug/kg	470	82.	10
Styrene	ND		ug/kg	470	92.	10
Dichlorodifluoromethane	ND		ug/kg	4700	430	10
Acetone	ND		ug/kg	4700	2200	10
Carbon disulfide	ND		ug/kg	4700	2100	10
2-Butanone	ND		ug/kg	4700	1000	10
4-Methyl-2-pentanone	ND		ug/kg	4700	600	10
2-Hexanone	ND		ug/kg	4700	550	10
Bromochloromethane	ND		ug/kg	940	96.	10
1,2-Dibromoethane	ND		ug/kg	470	130	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	1400	470	10
Isopropylbenzene	ND		ug/kg	470	51.	10
1,2,3-Trichlorobenzene	ND		ug/kg	940	150	10
1,2,4-Trichlorobenzene	ND		ug/kg	940	130	10
Methyl Acetate	2000		ug/kg	1900	440	10
Cyclohexane	ND		ug/kg	4700	250	10
1,4-Dioxane	ND		ug/kg	37000	16000	10
Freon-113	ND		ug/kg	1900	320	10
Methyl cyclohexane	ND		ug/kg	1900	280	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-04
Client ID: SB-2 (8-9')
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 17:50
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/03/19 19:38
Analyst: MV
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	1.8		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-04
Client ID: SB-2 (8-9')
Sample Location: 61 EDSON STREET

Date Collected: 03/27/19 17:50
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	0.22	J	ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	22		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	2.7	J	ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	87	38.	1
Freon-113	ND		ug/kg	4.4	0.76	1
Methyl cyclohexane	ND		ug/kg	4.4	0.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-05
Client ID: SB-5 (4.5-5')
Sample Location: 61 EDSON STREET

Date Collected: 03/28/19 09:27
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/03/19 20:04
Analyst: MV
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	0.44	J	ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

SAMPLE RESULTS

Lab ID: L1912354-05
Client ID: SB-5 (4.5-5')
Sample Location: 61 EDSON STREET

Date Collected: 03/28/19 09:27
Date Received: 03/28/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	6.9	J	ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	1.8	J	ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	35.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/19 18:42
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04-05 Batch: WG1222870-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/19 18:42
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04-05 Batch: WG1222870-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.24	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/19 18:42
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,04-05 Batch: WG1222870-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/19 19:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1223011-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	51	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/19 19:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1223011-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/03/19 19:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG1223011-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER WARD PRODUCTS SITE

Project Number: 190311ENVA

Lab Number: L1912354

Report Date: 04/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1222870-3 WG1222870-4								
Methylene chloride	85		84		70-130	1		30
1,1-Dichloroethane	89		86		70-130	3		30
Chloroform	82		82		70-130	0		30
Carbon tetrachloride	79		77		70-130	3		30
1,2-Dichloropropane	87		86		70-130	1		30
Dibromochloromethane	82		83		70-130	1		30
1,1,2-Trichloroethane	89		90		70-130	1		30
Tetrachloroethene	78		74		70-130	5		30
Chlorobenzene	79		79		70-130	0		30
Trichlorofluoromethane	78		76		70-139	3		30
1,2-Dichloroethane	93		95		70-130	2		30
1,1,1-Trichloroethane	81		80		70-130	1		30
Bromodichloromethane	82		82		70-130	0		30
trans-1,3-Dichloropropene	91		94		70-130	3		30
cis-1,3-Dichloropropene	81		82		70-130	1		30
Bromoform	82		85		70-130	4		30
1,1,2,2-Tetrachloroethane	89		92		70-130	3		30
Benzene	80		80		70-130	0		30
Toluene	86		85		70-130	1		30
Ethylbenzene	85		85		70-130	0		30
Chloromethane	92		89		52-130	3		30
Bromomethane	83		82		57-147	1		30
Vinyl chloride	78		74		67-130	5		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FORMER WARD PRODUCTS SITE

Project Number: 190311ENVA

Lab Number: L1912354

Report Date: 04/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1222870-3 WG1222870-4								
Chloroethane	82		79		50-151	4		30
1,1-Dichloroethene	78		75		65-135	4		30
trans-1,2-Dichloroethene	78		78		70-130	0		30
Trichloroethene	78		77		70-130	1		30
1,2-Dichlorobenzene	81		82		70-130	1		30
1,3-Dichlorobenzene	83		82		70-130	1		30
1,4-Dichlorobenzene	82		82		70-130	0		30
Methyl tert butyl ether	85		87		66-130	2		30
p/m-Xylene	81		81		70-130	0		30
o-Xylene	80		79		70-130	1		30
cis-1,2-Dichloroethene	79		78		70-130	1		30
Styrene	80		80		70-130	0		30
Dichlorodifluoromethane	65		62		30-146	5		30
Acetone	120		123		54-140	2		30
Carbon disulfide	84		82		59-130	2		30
2-Butanone	100		114		70-130	13		30
4-Methyl-2-pentanone	100		107		70-130	7		30
2-Hexanone	98		104		70-130	6		30
Bromochloromethane	75		75		70-130	0		30
1,2-Dibromoethane	84		86		70-130	2		30
1,2-Dibromo-3-chloropropane	85		87		68-130	2		30
Isopropylbenzene	86		85		70-130	1		30
1,2,3-Trichlorobenzene	80		82		70-130	2		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1222870-3 WG1222870-4								
1,2,4-Trichlorobenzene	80		80		70-130	0		30
Methyl Acetate	97		101		51-146	4		30
Cyclohexane	89		86		59-142	3		30
1,4-Dioxane	112		115		65-136	3		30
Freon-113	78		77		50-139	1		30
Methyl cyclohexane	78		76		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		118		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	108		109		70-130
Dibromofluoromethane	95		97		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: FORMER WARD PRODUCTS SITE

Lab Number: L1912354

Project Number: 190311ENVA

Report Date: 04/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1223011-3 WG1223011-4								
Methylene chloride	89		88		70-130	1		30
1,1-Dichloroethane	99		98		70-130	1		30
Chloroform	108		106		70-130	2		30
Carbon tetrachloride	113		110		70-130	3		30
1,2-Dichloropropane	94		92		70-130	2		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	87		89		70-130	2		30
Tetrachloroethene	85		86		70-130	1		30
Chlorobenzene	82		84		70-130	2		30
Trichlorofluoromethane	123		114		70-139	8		30
1,2-Dichloroethane	113		113		70-130	0		30
1,1,1-Trichloroethane	110		107		70-130	3		30
Bromodichloromethane	106		104		70-130	2		30
trans-1,3-Dichloropropene	93		96		70-130	3		30
cis-1,3-Dichloropropene	98		98		70-130	0		30
Bromoform	88		88		70-130	0		30
1,1,2,2-Tetrachloroethane	79		82		70-130	4		30
Benzene	94		93		70-130	1		30
Toluene	86		85		70-130	1		30
Ethylbenzene	87		87		70-130	0		30
Chloromethane	88		85		52-130	3		30
Bromomethane	143		133		57-147	7		30
Vinyl chloride	87		84		67-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER WARD PRODUCTS SITE

Project Number: 190311ENVA

Lab Number: L1912354

Report Date: 04/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1223011-3 WG1223011-4								
Chloroethane	97		96		50-151	1		30
1,1-Dichloroethene	89		89		65-135	0		30
trans-1,2-Dichloroethene	93		91		70-130	2		30
Trichloroethene	95		92		70-130	3		30
1,2-Dichlorobenzene	80		81		70-130	1		30
1,3-Dichlorobenzene	80		81		70-130	1		30
1,4-Dichlorobenzene	80		80		70-130	0		30
Methyl tert butyl ether	105		104		66-130	1		30
p/m-Xylene	85		85		70-130	0		30
o-Xylene	83		85		70-130	2		30
cis-1,2-Dichloroethene	93		93		70-130	0		30
Styrene	83		84		70-130	1		30
Dichlorodifluoromethane	88		84		30-146	5		30
Acetone	115		116		54-140	1		30
Carbon disulfide	91		89		59-130	2		30
2-Butanone	104		104		70-130	0		30
4-Methyl-2-pentanone	83		87		70-130	5		30
2-Hexanone	88		92		70-130	4		30
Bromochloromethane	96		92		70-130	4		30
1,2-Dibromoethane	85		87		70-130	2		30
1,2-Dibromo-3-chloropropane	82		85		68-130	4		30
Isopropylbenzene	82		81		70-130	1		30
1,2,3-Trichlorobenzene	82		84		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER WARD PRODUCTS SITE

Project Number: 190311ENVA

Lab Number: L1912354

Report Date: 04/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG1223011-3 WG1223011-4								
1,2,4-Trichlorobenzene	81		83		70-130	2		30
Methyl Acetate	100		101		51-146	1		30
Cyclohexane	91		89		59-142	2		30
1,4-Dioxane	100		104		65-136	4		30
Freon-113	97		94		50-139	3		30
Methyl cyclohexane	90		89		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	120		122		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	106		106		70-130

METALS

Project Name: FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19**SAMPLE RESULTS**

Lab ID: L1912354-01

Date Collected: 03/27/19 16:30

Client ID: WC1

Date Received: 03/28/19

Sample Location: 61 EDSON STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.33		mg/kg	0.454	0.094	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Barium, Total	55.4		mg/kg	0.454	0.079	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Cadmium, Total	2.56		mg/kg	0.454	0.045	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Chromium, Total	33.4		mg/kg	0.454	0.044	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Lead, Total	80.3		mg/kg	2.27	0.122	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.072	0.015	1	03/30/19 09:30	04/01/19 14:49	EPA 7471B	1,7471B	GD
Nickel, Total	72.6		mg/kg	1.13	0.110	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	0.907	0.117	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Silver, Total	1.06		mg/kg	0.454	0.128	1	04/02/19 07:10	04/02/19 10:26	EPA 3050B	1,6010D	LC
Zinc, Total	2850		mg/kg	22.7	1.33	10	04/02/19 07:10	04/02/19 19:55	EPA 3050B	1,6010D	AB



Project Name: FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19**SAMPLE RESULTS**

Lab ID: L1912354-02

Date Collected: 03/27/19 13:43

Client ID: ISB-6 (3.5-4')

Date Received: 03/28/19

Sample Location: 61 EDSON STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.49		mg/kg	0.444	0.092	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Barium, Total	59.9		mg/kg	0.444	0.077	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Cadmium, Total	0.271	J	mg/kg	0.444	0.044	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Chromium, Total	22.6		mg/kg	0.444	0.043	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Lead, Total	7.65		mg/kg	2.22	0.119	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.072	0.015	1	03/30/19 09:30	04/01/19 15:00	EPA 7471B	1,7471B	GD
Nickel, Total	20.5		mg/kg	1.11	0.108	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Selenium, Total	0.244	J	mg/kg	0.889	0.115	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.444	0.126	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC
Zinc, Total	42.9		mg/kg	2.22	0.130	1	04/02/19 07:10	04/02/19 13:53	EPA 3050B	1,6010D	LC



Project Name: FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19**SAMPLE RESULTS**

Lab ID: L1912354-03

Date Collected: 03/27/19 12:15

Client ID: ISB-4 (7.5-8.5')

Date Received: 03/28/19

Sample Location: 61 EDSON STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.89		mg/kg	0.433	0.090	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Barium, Total	33.4		mg/kg	0.433	0.075	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Cadmium, Total	0.840		mg/kg	0.433	0.042	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Chromium, Total	6.70		mg/kg	0.433	0.042	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Lead, Total	5.78		mg/kg	2.16	0.116	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.071	0.015	1	03/30/19 09:30	04/01/19 15:02	EPA 7471B	1,7471B	GD
Nickel, Total	10.4		mg/kg	1.08	0.105	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Selenium, Total	0.169	J	mg/kg	0.866	0.112	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.433	0.122	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC
Zinc, Total	184		mg/kg	2.16	0.127	1	04/02/19 07:10	04/02/19 13:57	EPA 3050B	1,6010D	LC



Project Name: FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19**SAMPLE RESULTS**

Lab ID: L1912354-04

Date Collected: 03/27/19 17:50

Client ID: SB-2 (8-9')

Date Received: 03/28/19

Sample Location: 61 EDSON STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.28		mg/kg	0.454	0.094	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Barium, Total	39.2		mg/kg	0.454	0.079	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Cadmium, Total	0.082	J	mg/kg	0.454	0.045	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Chromium, Total	9.06		mg/kg	0.454	0.044	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Lead, Total	7.03		mg/kg	2.27	0.122	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.076	0.016	1	03/30/19 09:30	04/01/19 15:04	EPA 7471B	1,7471B	GD
Nickel, Total	15.9		mg/kg	1.13	0.110	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Selenium, Total	0.254	J	mg/kg	0.907	0.117	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.454	0.128	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC
Zinc, Total	49.2		mg/kg	2.27	0.133	1	04/02/19 07:10	04/02/19 14:02	EPA 3050B	1,6010D	LC



Project Name: FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19**SAMPLE RESULTS**

Lab ID: L1912354-05

Date Collected: 03/28/19 09:27

Client ID: SB-5 (4.5-5')

Date Received: 03/28/19

Sample Location: 61 EDSON STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.20		mg/kg	0.494	0.103	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Barium, Total	40.1		mg/kg	0.494	0.086	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Cadmium, Total	0.049	J	mg/kg	0.494	0.048	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Chromium, Total	13.5		mg/kg	0.494	0.047	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Lead, Total	7.62		mg/kg	2.47	0.132	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.079	0.017	1	03/30/19 09:30	04/01/19 15:08	EPA 7471B	1,7471B	GD
Nickel, Total	17.0		mg/kg	1.24	0.120	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Selenium, Total	0.341	J	mg/kg	0.988	0.128	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.494	0.140	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC
Zinc, Total	45.2		mg/kg	2.47	0.145	1	04/02/19 07:10	04/02/19 14:07	EPA 3050B	1,6010D	LC



Project Name: FORMER WARD PRODUCTS SITE

Lab Number: L1912354

Project Number: 190311ENVA

Report Date: 04/04/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1221306-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/30/19 09:30	04/01/19 14:45	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1221992-1										
Arsenic, Total	0.104	J	mg/kg	0.400	0.083	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Zinc, Total	0.152	J	mg/kg	2.00	0.117	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1221306-2 SRM Lot Number: D101-540								
Mercury, Total	124		-		65-135	-		
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1221992-2 SRM Lot Number: D101-540								
Arsenic, Total	93		-		83-117	-		
Barium, Total	94		-		83-118	-		
Cadmium, Total	91		-		83-117	-		
Chromium, Total	92		-		81-118	-		
Lead, Total	89		-		83-117	-		
Nickel, Total	91		-		82-117	-		
Selenium, Total	93		-		79-121	-		
Silver, Total	94		-		80-120	-		
Zinc, Total	90		-		81-119	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1221306-3			QC Sample: L1912354-01			Client ID: WC1			
Mercury, Total	ND	0.145	0.174	120		-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1221992-3			QC Sample: L1912498-02			Client ID: MS Sample			
Arsenic, Total	1.87	10.2	11.5	94		-	-		75-125	-		20
Barium, Total	8.05	170	162	91		-	-		75-125	-		20
Cadmium, Total	ND	4.33	4.08	94		-	-		75-125	-		20
Chromium, Total	3.59	17	19.1	91		-	-		75-125	-		20
Lead, Total	2.92J	43.3	41.2	95		-	-		75-125	-		20
Nickel, Total	5.81	42.5	43.7	89		-	-		75-125	-		20
Selenium, Total	0.242J	10.2	9.31	91		-	-		75-125	-		20
Silver, Total	ND	25.5	22.0	86		-	-		75-125	-		20
Zinc, Total	18.9	42.5	59.0	94		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER WARD PRODUCTS SITE

Project Number: 190311ENVA

Lab Number: L1912354

Report Date: 04/04/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1221306-4 QC Sample: L1912354-01 Client ID: WC1						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1221992-4 QC Sample: L1912498-02 Client ID: DUP Sample						
Arsenic, Total	1.87	1.97	mg/kg	5		20
Barium, Total	8.05	8.09	mg/kg	0		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	3.59	3.56	mg/kg	1		20
Lead, Total	2.92J	2.97J	mg/kg	NC		20
Nickel, Total	5.81	5.77	mg/kg	1		20
Selenium, Total	0.242J	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	18.9	19.4	mg/kg	3		20

INORGANICS & MISCELLANEOUS

Project Name: FORMER WARD PRODUCTS SITE**Project Number:** 190311ENVA**Lab Number:** L1912354**Report Date:** 04/04/19**SAMPLE RESULTS****Lab ID:** L1912354-01**Client ID:** WC1**Sample Location:** 61 EDSON STREET**Date Collected:** 03/27/19 16:30**Date Received:** 03/28/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	03/29/19 13:34	121,2540G	RI



Project Name: FORMER WARD PRODUCTS SITE**Project Number:** 190311ENVA**Lab Number:** L1912354**Report Date:** 04/04/19**SAMPLE RESULTS****Lab ID:** L1912354-02**Client ID:** ISB-6 (3.5-4')**Sample Location:** 61 EDSON STREET**Date Collected:** 03/27/19 13:43**Date Received:** 03/28/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	03/29/19 13:34	121,2540G	RI



Project Name: FORMER WARD PRODUCTS SITE**Project Number:** 190311ENVA**Lab Number:** L1912354**Report Date:** 04/04/19**SAMPLE RESULTS****Lab ID:** L1912354-03**Client ID:** ISB-4 (7.5-8.5')**Sample Location:** 61 EDSON STREET**Date Collected:** 03/27/19 12:15**Date Received:** 03/28/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	03/29/19 13:34	121,2540G	RI



Project Name: FORMER WARD PRODUCTS SITE**Project Number:** 190311ENVA**Lab Number:** L1912354**Report Date:** 04/04/19**SAMPLE RESULTS****Lab ID:** L1912354-04**Client ID:** SB-2 (8-9')**Sample Location:** 61 EDSON STREET**Date Collected:** 03/27/19 17:50**Date Received:** 03/28/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	03/29/19 13:34	121,2540G	RI



Project Name: FORMER WARD PRODUCTS SITE**Project Number:** 190311ENVA**Lab Number:** L1912354**Report Date:** 04/04/19**SAMPLE RESULTS****Lab ID:** L1912354-05**Client ID:** SB-5 (4.5-5')**Sample Location:** 61 EDSON STREET**Date Collected:** 03/28/19 09:27**Date Received:** 03/28/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	03/29/19 13:34	121,2540G	RI



Lab Duplicate Analysis
*Batch Quality Control***Project Name:** FORMER WARD PRODUCTS SITE**Project Number:** 190311ENVA**Lab Number:** L1912354**Report Date:** 04/04/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1221060-1 QC Sample: L1910330-01 Client ID: DUP Sample						
Solids, Total	70.8	69.4	%	2		20

Project Name: FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1912354-01A	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1912354-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1912354-01C	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-01X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-01Y	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-01Z	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-02A	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1912354-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1912354-02C	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-02X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-02Y	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-02Z	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-03A	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1912354-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1912354-03C	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-03X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-03Y	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-03Z	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-04A	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1912354-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)

Project Name: FORMER WARD PRODUCTS SITE**Lab Number:** L1912354**Project Number:** 190311ENVA**Report Date:** 04/04/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1912354-04C	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-04X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-04Y	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-04Z	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-05A	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1912354-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),CD-TI(180)
L1912354-05C	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-05X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260-R2(14)
L1912354-05Y	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)
L1912354-05Z	Vial Water preserved split	A	NA		2.5	Y	Absent	03-APR-19 03:56	NYTCL-8260-R2(14)

Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: FORMER WARD PRODUCTS SITE
Project Number: 190311ENVA

Lab Number: L1912354
Report Date: 04/04/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **12**

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1914179
Client:	Ambient Environmental 7843 Karakul Lane Fayetteville, NY 13066
ATTN:	Jim Blasting
Phone:	(315) 203-3355
Project Name:	61 EDSON STREET, AMSTERDAM, NY
Project Number:	190311ENVA
Report Date:	04/15/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1914179-01	MW-22	WATER	AMSTERDAM, NY	04/08/19 15:15	04/08/19
L1914179-02	MW-23	WATER	AMSTERDAM, NY	04/08/19 14:00	04/08/19
L1914179-03	TRIP BLANK	WATER	AMSTERDAM, NY	04/08/19 00:00	04/08/19

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Amita Naik

Title: Technical Director/Representative

Date: 04/15/19

ORGANICS

VOLATILES

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914179-01
Client ID: MW-22
Sample Location: AMSTERDAM, NY

Date Collected: 04/08/19 15:15
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/19 15:27
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.59		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.57		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	78		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914179-01
Client ID: MW-22
Sample Location: AMSTERDAM, NY

Date Collected: 04/08/19 15:15
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.0	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	0.55	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914179-02
Client ID: MW-23
Sample Location: AMSTERDAM, NY

Date Collected: 04/08/19 14:00
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/19 15:56
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.54		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.72	J	ug/l	2.5	0.70	1
Trichloroethene	96		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914179-02
Client ID: MW-23
Sample Location: AMSTERDAM, NY

Date Collected: 04/08/19 14:00
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.9	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	0.70	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914179-03
Client ID: TRIP BLANK
Sample Location: AMSTERDAM, NY

Date Collected: 04/08/19 00:00
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/12/19 16:26
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.23	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914179-03
Client ID: TRIP BLANK
Sample Location: AMSTERDAM, NY

Date Collected: 04/08/19 00:00
Date Received: 04/08/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/12/19 10:33
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225976-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/12/19 10:33
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225976-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/19 10:33
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1225976-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 61 EDSON STREET, AMSTERDAM, NY

Project Number: 190311ENVA

Lab Number: L1914179

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1225976-3 WG1225976-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	95		95		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	94		95		70-130	1		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	100		110		54-136	10		20
1,1,2,2-Tetrachloroethane	95		97		67-130	2		20
Benzene	100		100		70-130	0		20
Toluene	100		99		70-130	1		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	80		81		64-130	1		20
Bromomethane	57		53		39-139	7		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 61 EDSON STREET, AMSTERDAM, NY

Project Number: 190311ENVA

Lab Number: L1914179

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1225976-3 WG1225976-4								
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	96		98		70-130	2		20
1,3-Dichlorobenzene	97		96		70-130	1		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	95		97		63-130	2		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	130		130		36-147	0		20
Acetone	97		87		58-148	11		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	61	Q	60	Q	63-138	2		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	84		84		57-130	0		20
Bromochloromethane	120		120		70-130	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	97		97		41-144	0		20
Isopropylbenzene	99		98		70-130	1		20
1,2,3-Trichlorobenzene	91		98		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 61 EDSON STREET, AMSTERDAM, NY

Lab Number: L1914179

Project Number: 190311ENVA

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1225976-3 WG1225976-4								
1,2,4-Trichlorobenzene	95		98		70-130	3		20
Methyl Acetate	72		72		70-130	0		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	110		100		56-162	10		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		94		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	100		99		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY**Lab Number:** L1914179**Project Number:** 190311ENVA**Report Date:** 04/15/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1914179-01A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L1914179-01B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L1914179-01C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L1914179-02A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L1914179-02B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L1914179-02C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L1914179-03A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)
L1914179-03B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260-R2(14)

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1914179
Report Date: 04/15/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **12**

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Certification Information


The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate. **EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 4/10/19		ALPHA Job # L191417A																																																																																																																																																																																																																																																																																																																								
		Project Information Project Name: 61 Edson Street, Amsterdam, NY Project Location: Amsterdam, NY Project # _____ (Use Project name as Project #) <input type="checkbox"/>				Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other				Billing Information <input checked="" type="checkbox"/> Same as Client Info PO # 190311ENVA																																																																																																																																																																																																																																																																																																																						
		Client Information Client: Ambient Environmental Address: _____ Phone: (315) 263-3388 Fax: _____ Email: jimb@ambient-env.com				Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: _____ <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																																																																																																																																																																																																						
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type V		Preservative B		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.																																																																																																																																																																																																																																																																																																																						
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ANALYTICAL REPORT

Lab Number:	L1918442
Client:	Ambient Environmental 7843 Karakul Lane Fayetteville, NY 13066
ATTN:	Jim Blasting
Phone:	(315) 203-3355
Project Name:	61 EDSON STREET, AMSTERDAM, NY
Project Number:	190311ENVA
Report Date:	05/10/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1918442-01	MW-22	WATER	AMSTERDAM, NY	05/03/19 08:55	05/03/19
L1918442-02	MW-23	WATER	AMSTERDAM, NY	05/02/19 12:30	05/03/19
L1918442-03	MW-5	WATER	AMSTERDAM, NY	05/02/19 09:05	05/03/19
L1918442-04	MW-8	WATER	AMSTERDAM, NY	05/02/19 08:05	05/03/19
L1918442-05	MW-10	WATER	AMSTERDAM, NY	05/02/19 11:00	05/03/19
L1918442-06	MW-12	WATER	AMSTERDAM, NY	05/03/19 08:05	05/03/19
L1918442-07	TRIP BLANK	WATER	AMSTERDAM, NY	05/02/19 00:00	05/03/19

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19


Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 05/10/19

ORGANICS

VOLATILES

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-01
Client ID: MW-22
Sample Location: AMSTERDAM, NY

Date Collected: 05/03/19 08:55
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/08/19 09:56
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.29	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.38	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	52		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-01
Client ID: MW-22
Sample Location: AMSTERDAM, NY

Date Collected: 05/03/19 08:55
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.5	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-02
Client ID: MW-23
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 12:30
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/08/19 10:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.57		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.73	J	ug/l	2.5	0.70	1
Trichloroethene	100		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-02
Client ID: MW-23
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 12:30
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.0	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-03
Client ID: MW-5
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 09:05
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/08/19 11:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	27		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-03
Client ID: MW-5
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 09:05
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.3	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-04 D
Client ID: MW-8
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 08:05
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/08/19 11:44
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	55		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	2400		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-04 **D**
Client ID: MW-8
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 08:05
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	1200	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-05
Client ID: MW-10
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 11:00
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/08/19 12:20
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.2		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	1.6		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.4	J	ug/l	2.5	0.70	1
Trichloroethene	170		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-05
Client ID: MW-10
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 11:00
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	6.3		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-06
Client ID: MW-12
Sample Location: AMSTERDAM, NY

Date Collected: 05/03/19 08:05
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/08/19 12:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.34	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	30		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-06
Client ID: MW-12
Sample Location: AMSTERDAM, NY

Date Collected: 05/03/19 08:05
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.7		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-07
Client ID: TRIP BLANK
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 00:00
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/08/19 09:20
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

SAMPLE RESULTS

Lab ID: L1918442-07
Client ID: TRIP BLANK
Sample Location: AMSTERDAM, NY

Date Collected: 05/02/19 00:00
Date Received: 05/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/08/19 08:44
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1234948-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 61 EDSON STREET, AMSTERDAM, NY**Lab Number:** L1918442**Project Number:** 190311ENVA**Report Date:** 05/10/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/08/19 08:44
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1234948-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/08/19 08:44
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1234948-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 61 EDSON STREET, AMSTERDAM, NY

Project Number: 190311ENVA

Lab Number: L1918442

Report Date: 05/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1234948-3 WG1234948-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	96		92		63-130	4		20
1,1,2-Trichloroethane	97		95		70-130	2		20
Tetrachloroethene	98		98		70-130	0		20
Chlorobenzene	98		98		75-130	0		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	87		86		70-130	1		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Bromoform	84		81		54-136	4		20
1,1,2,2-Tetrachloroethane	90		87		67-130	3		20
Benzene	110		110		70-130	0		20
Toluene	99		97		70-130	2		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	86		88		64-130	2		20
Bromomethane	110		100		39-139	10		20
Vinyl chloride	92		94		55-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 61 EDSON STREET, AMSTERDAM, NY

Project Number: 190311ENVA

Lab Number: L1918442

Report Date: 05/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1234948-3 WG1234948-4								
Chloroethane	120		100		55-138	18		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	94		93		70-130	1		20
1,3-Dichlorobenzene	94		93		70-130	1		20
1,4-Dichlorobenzene	94		93		70-130	1		20
Methyl tert butyl ether	98		97		63-130	1		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	100		99		36-147	1		20
Acetone	100		94		58-148	6		20
Carbon disulfide	96		97		51-130	1		20
2-Butanone	100		100		63-138	0		20
4-Methyl-2-pentanone	80		83		59-130	4		20
2-Hexanone	85		86		57-130	1		20
Bromochloromethane	120		110		70-130	9		20
1,2-Dibromoethane	93		92		70-130	1		20
1,2-Dibromo-3-chloropropane	76		83		41-144	9		20
Isopropylbenzene	97		98		70-130	1		20
1,2,3-Trichlorobenzene	87		94		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 61 EDSON STREET, AMSTERDAM, NY

Project Number: 190311ENVA

Lab Number: L1918442

Report Date: 05/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1234948-3 WG1234948-4								
1,2,4-Trichlorobenzene	91		92		70-130	1		20
Methyl Acetate	98		99		70-130	1		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	90		92		56-162	2		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	103		101		70-130

Project Name: 61 EDSON STREET, AMSTERDAM, NY**Lab Number:** L1918442**Project Number:** 190311ENVA**Report Date:** 05/10/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1918442-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-02C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-03C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-04A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-04B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-04C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-05A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-05B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-05C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-06A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-06B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-06C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-07A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1918442-07B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)

Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 61 EDSON STREET, AMSTERDAM, NY
Project Number: 190311ENVA

Lab Number: L1918442
Report Date: 05/10/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

$$5/4/10$$

ALPHA Job #
L1918442

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.