PERIODIC REVIEW REPORT

500 SOUTH UNION STREET SITE
(BCP SITE NO. C828153)

SPENCERPORT, NEW YORK

November 2017 0188-017-001

Prepared for:

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PERIODIC REVIEW REPORT

500 South Union Street Site

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1.0 INTRODUCTION

TurnKey Environmental Restoration, LLC (TurnKey) has prepared this Periodic Review Report (PRR), on behalf of Eyezon Associates, Inc. (Eyezon) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C828153, located in the Village of Spencerport, Monroe County, New York (Site; see Figure 1).

This PRR has been prepared for the 500 South Union Street Site in accordance with NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (May 2010). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form has been completed for the Site (see Appendix A).

This PRR and the associated inspection form has been completed for the post-remedial activities at the Site for the June 1, 2016 to August 31, 2017 reporting period.

1.1 Site Background

The 500 South Union Street Site encompasses approximately 1.2 acres of land which was historically used for agricultural purposes through the 1930s. In subsequent decades, a portion of the existing structure was constructed (1940s) and used as a button factory. In the early 1970s, the Site was used commercially as a dry cleaning facility, a hair salon and restaurant. During that time, the first addition to the building was completed. In 1989, a second addition was added to the building completing the present day structure.

Historic dry cleaning operations likely impacted on-Site soil and groundwater with chlorinated volatile organic compounds (cVOCs).

1.2 Remedial History

The 500 South Union Street Site encompasses approximately 1.2 acres of land which was previously developed as commercial retail space. Based on the historical use of the site, soil/fill and groundwater were impacted with chlorinated volatile organic compounds (cVOCs) requiring cleanup. Interim Remedial Measures (IRMs) including in-situ groundwater treatment and excavation followed by off-site disposal of contaminated soil/fill were completed at the site. An active sub-slab depressurization system (ASD) system was

installed in the existing building and long-term groundwater monitoring was initiated on-site as part of the Site Management Plan (SMP).

1.3 Compliance

At the time of the Site inspection, the Site was compliant with the Department's approved SMP.

1.4 Recommendations

No modifications of the SMP are recommended at this time.

2.0 SITE OVERVIEW

Environmental site investigations were conducted by Haley & Aldrich of New York (H&A) in November 1998 and TurnKey in 2008, and revealed the presence of cVOCs in on-Site soil and groundwater. TurnKey conducted an additional subsurface investigation at the Site in June 2008 to further assess chlorinated-impacts to Site soil and groundwater.

Eyezon entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC in 2009 to remediate the Site. Between 2010 and 2012, Benchmark-TurnKey completed the Remedial Investigation and prepared a Remedial Investigation /Alternatives Analysis Report (RI/AAR) to more fully characterize the Site in accordance with the BCP requirements.

Based on the findings of the RI, an Active Subslab Depressurization (ASD) System IRM Work Plan was prepared by Benchmark-TurnKey and was approved by the NYSDEC in August 2010. In March 2014, a Remedial Action Work Plan (RAWP) was submitted to the NYSDEC, which included: details of the in-Situ groundwater treatment injection program, post-injection groundwater monitoring, remedial excavation; and placement of cover system in areas without building or hardscape (e.g., asphalt, concrete and soil).

The remedial activities began in February 2014 and were completed in September 2014. The remedial activities included:

- Installation of an active subslab depressurization (ASD) system within the existing building to prevent migration of vapors into the building air;
- In-situ injection of approximately 21,000 lbs. of Regenesis 3DME at 71 injection points located across the Site;
- Limited excavation and off-Site disposal of surface soil/fill exceeding commercial use SCOs, along the northern, southern and eastern property boundaries. The excavation and cover system placement was completed in September 2014;
- Construction and maintenance of a cover system consisting of the existing building, pavement (asphalt), sidewalks, and soil cover in all other areas at a minimum of one-foot-thick over the demarcation layer, to prevent human exposure to remaining contaminated soil/fill remaining at the Site.

Remedial activities were completed in September 2014. The FER and SMP for the Site were approved by the Department in December 2014. The COC was issued for the Site on December 23, 2014.

3.0 REMEDY PERFORMANCE

Post-remedial annual inspections and long-term groundwater monitoring have been completed at the Site in accordance with the SMP. The Site inspection including a walk-over of the entire BCP Site to visually observe and document the use of the Site for commercial use, restriction of groundwater use, operation of the active subslab vapor extraction system, and conformance with the Site Management Plan (SMP). The 2017 site inspection completed during this reporting period indicates that the controls are in-place and functioning as intended in accordance with the SMP.

The completed IC/EC Certification form and site photographs are included in Appendix A and Appendix B, respectively. Site Inspection form is included in Appendix C.

4.0 SITE MANAGEMENT PLAN

A SMP was prepared for the Site, and approved by the Department in December 2014. The SMP includes an Operation, Monitoring and Maintenance (OM&M) Plan, an Excavation Work Plan (EWP), and a copy of the Environmental Easements. A brief description of the components of the SMP is presented below.

4.1 Operation, Monitoring and Maintenance Plan

The OM&M Plan consists of three major components, including the Active Sub-slab Depressurization System (ASD); the Long-Term Groundwater Monitoring (LTGWM) Plan; and the Annual Inspection & Certification Program.

4.1.1 Active Sub-slab Depressurization System

An ASD system was installed in the existing building. As required by the Department approved SMP, the ASD system must: (1) be operated continuously to provide a negative pressure field; (2) be visually inspected periodically to verify proper operation; and (3) annually inspected and certified that the system is performing properly and remains an effective engineering control (EC).

The ASD system was inspected on August 29, 2017, by TurnKey. The inspector verified that the ASD system was operating properly at the time of the site inspection, with vacuum readings of 0.3-0.4 inches water column (WC) or greater on the magnehelic and liquid vacuum gauges. A manual verification check of the system was performed to verify operation of the indicator light (alarm), the system performed correctly.

Copies of the ASD visual inspection logs are included in Appendix C. Photos of the individual vacuum gauges are included in the photolog.

4.1.2 Long-Term Groundwater Monitoring Plan

Long-term groundwater monitoring (LTGWM) was conducted on April 22nd, September 29th, and December 15th, 2016 and August 29th, 2017 during this reporting period. Groundwater sample results are discussed below. The collection of attenuation parameters was discontinued after the April 2016 sampling event, per the Department's approval.

It should be noted that groundwater monitoring well MW-103 was still not accessible during the August 2017 sampling event; however, the surface obstruction was corrected and a passive diffusion bag sampler was installed during the November 2017 sampling event. A groundwater sample will be collected from MW-103 during the first semi-annual sampling event in 2018.

4.1.3 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines the requirements for the Site, to certify and attest that the institutional controls and/or engineering controls employed at the Site are unchanged from the previous certification. The Annual Certification will primarily consist of an annual Site Inspection to complete the NYSDEC's IC/EC Certification Form. The Site inspection will verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

A Site inspection of the property was conducted by a TurnKey Qualified Environmental Professional (QEP) during this reporting period on August 29th, 2017. At the time of the inspections, the property was being used as a commercial retail facility, with surface parking, paved walkways and landscaped areas. No observable indication of intrusive activities was noted during the Site inspection. The commercial retail facilities use the local municipal water supply, and no observable use of groundwater was noted during the Site inspection.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form is included in Appendix A. A photolog of the Site inspection is included in Appendix B.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the approved-SMP for the Site. The EWP provides guidelines for the management of soil and fill material during any future intrusive actives.

No intrusive activities requiring management of on-Site soil or fill material; or the placement of backfill materials occurred during the monitoring period.

4.3 Engineering and Institutional Control Requirements and Compliance

As detailed in the Environmental Easements, several IC/ECs need to be maintained as a requirmement of the BCAs for the Site.

4.3.1 Institutional Controls

- Groundwater-Use Restriction – the use of groundwater for potable and non-potable purposes is prohibited;
- Land-Use Restriction: The controlled property may be used for commercial and/or industrial use; and
- Implementation of the SMP including the OM&M Plan and EWP.

4.3.2 Engineering Controls

- Subslab Vapor Mitigation – ASD System has been operated continuously and properly maintained.
- Cover System – The cover system, including building foundations, concrete sidewalks, concrete or asphalt driveways and parking areas, and landscaped vegetated areas are being maintained in compliance with the SMP.

At the time of the site inspection, the Site was compliant with all engineering and institutional control requirements.

5.0 LONG-TERM GROUNDWATER MONITORING

The long-term groundwater monitoring events were completed in general accordance with the SMP, and sampling was completed on April 22nd, 2016, September 29th, 2016, December 15th, 2016, and August 29th, 2017, and included monitoring wells MW-1D, MW-2D, MW-3, MW4D, MW-5D, PZ-5, PZ-8, and MW-106.

It should be noted that groundwater monitoring well MW-103 was still not accessible during the August 2017 sampling event; however, the surface obstruction was corrected and a passive diffusion bag sampler was installed during the November 2017 sampling event. A groundwater sample will be collected from MW-103 during the first semi-annual sampling event in 2018.

Groundwater samples from each of the sampled wells were analyzed for Target Compound List (TCL) plus Commissioners Policy (CP-51) volatile organic compounds (VOCs) per USEPA Method 8260 as well as attenuation parameters. Groundwater samples were collected using passive diffusion bags (PDBs) for VOCs, and rigid porous polyethylene (RPPs) for attenuation parameters. Field parameters, including pH, temperature, specific conductance, turbidity, dissolved oxygen and oxidation-reduction potential (Redox) were also collected. Groundwater samples were submitted under chain-of-custody command to NYSDOH ELAP laboratory for analysis.

Table 1 summarizes the analytical data from the current groundwater monitoring events, as well as historic groundwater monitoring events completed by TurnKey and the NYSDEC with comparison to NYSDEC Class GA groundwater quality standards (GWQS) as listed in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1). The laboratory analytical data packages are included in Appendix D.

As shown on Table 1, concentrations of total cVOCs have decreased in the groundwater in several of the sampling locations at the site. This data suggests that the remedial groundwater injection event paired with natural attenuation have contributed to an ongoing reduction of cVOC concentrations at the Site. Evidence of residual treatment amendment is still present within the groundwater wells.

The groundwater flow is generally consistent with historic groundwater gauging data. The next groundwater sampling event is scheduled for November 2017.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions:

- At the time of the Site inspection, the Site was in compliance with the SMP. The ASD system is operating and groundwater data indicates a decreasing trend of cVOC concentrations.

Recommendations:

- No modifications of the SMP are recommended at this time.

7.0 DECLARATION/LIMITATION

TurnKey personnel conducted the annual site inspections for the 500 South Union Street BCP Site No. C828153, located in Spencerport, New York, according to generally accepted practices. This report complied with the scope of work provided to Eyezon Associates, Inc. by TurnKey Environmental Restoration, LLC.

This report has been prepared for the exclusive use of Eyezon Associates, Inc. The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of Eyezon Associates, Inc. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of TurnKey.

TABLES

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

LONG-TERM GROUNDWATER MONITORING - As of December 2015

500 SOUTH UNION STREET SITE

SPENCERPORT, NEW YORK

PARAMETER[1]	GWQS[2]	SAMPLE LOCATIONS															
		PZ-5									PZ-8						
		09/28/10	05/11/11	09/28/10	05/11/11	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17	09/27/10	05/11/11	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17
Volatile Organic Compounds (VOCs) - (ug/L)																	
1,1-Dichloroethene	5	ND	ND	2.8 D,J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	38	**100 D**	57	**1500 D**	**300 D**	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	--	ND	ND	ND	ND	6.9	ND	32	330	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	19	**69 D, X**	ND	**690 D**	**400 D**	ND	ND	5.1	ND	9.5	3.1 J	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	--	ND	ND	ND	ND	ND	ND	ND	0.63 J	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	0.59 J	ND	ND	ND	ND	ND	0.65 J	ND	ND	ND	ND	ND	ND	0.74 J	1.2 J
Chloromethane (Methyl chloride)	5	ND	ND	ND	ND	ND	ND	ND	2.1 J	ND	0.68 J	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	**26 D**	**28**	**660 D**	**290**	**100**	**540 D**	**170**	**400**	**330 D**	**220**	**130**	1.6	**120**	**99**	2.5	**64**
Dichlorodifluoromethane (Freon-12)	5	ND J	ND	ND J	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether (MTBE)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	**3100 D**	**4000 D**	**30 D**	**26**	**110**	**77 D**	**54**	**52**	**28 D**	3.4	ND	ND	1.1	ND	0.4 J	1.6
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	1.2	ND	ND	ND
Trichloroethene	5	**85 D**	**140**	**180 D**	**51**	**9**	**12 D**	**6.9**	**4.6**	ND	**6.5**	ND	ND	ND	1.3	0.23 J	0.97
Vinyl chloride	2	ND	ND	**8.1 D**	ND	ND	**5.5 D**	**3.7**	**23**	**140 D**	ND	ND	ND	**10**	**6.6**	ND	**4.1**
Total cVOCs	--	3211	4168	880.9	367	219	634.5	234.6	481.7 J	498 D	231.58	130	1.6	132.3	106.9	3.13 J	70.67
Field Measurements (Units as Indicated)																	
pH (units)	--	7.40	7.26	7.06	7.13	--	5.27	--	--	4.57	7.11	7.02	--	5.09	--	--	--
Temperature (oC)	--	21.7	16.7	21.6	17.3	--	15.6	--	--	24.9	16.9	16.7	--	15.60	--	--	--
Specific Conductance (uS)	--	19.8	1423	624	768.5	--	45.77	--	--	87.7	457	316.7	--	38.54	--	--	--
Turbidity	--	617	803	>1000	312	--	55.1	--	--	--	>1000	>1000	--	13.60	--	--	--
DO (ppm)	--	5.94	3.46	0.2	3.6	--	1.58	--	--	--	4.47	3.51	--	2.01	--	--	--
ORP (mV)	--	24	10	54	36	--	91	--	--	257	102	82	--	260	--	--	--
Attenuation Parameters - (mg/L)																	
Iron, Dissolved	--	7.4	7.26	7.06	7.13	--	--	--	--	--	7.11	7.02	--	--	--	--	--
Manganese, Dissolved	--	21.7	16.7	21.6	17.3	--	--	--	--	--	16.9	16.7	--	--	--	--	--
Ethane	--	19.8	1423	624	768.5	--	--	--	--	--	457	316.7	--	--	--	--	--
Ethene	--	617	803	>1000	312	--	--	--	--	--	>1000	1000	--	--	--	--	--
Methane	--	5.94	3.46	0.2	3.6	--	--	--	--	--	4.47	3.51	--	--	--	--	--

PARAMETER[1]	GWQS[2]	SAMPLE LOCATIONS															
		MW-1D								MW-2D							
		09/28/10	05/10/11	08/27/14	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17	09/28/10	05/10/11	08/27/14	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17
Volatile Organic Compounds (VOCs) - (ug/L)																	
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	25 H, J	ND	ND	7.7	6.4	ND	ND	ND	6.8 H, J	ND	ND	ND	3.9 J	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	**120 H**	ND	14	48 X	14	1.5 J	ND	ND	4.7 H, J	ND	ND	ND	3.5 J	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND	ND	**1.7**	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	--	0.81 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35 H, J	5.2	ND	1.8	ND	1.1 J
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	**6.7**	**6**	ND	2.7	**5.8**	**8.6**	**9.8**	3.5	**11**	**15**	**15 H**	**150**	**68**	**22**	1.1	0.94 J
Dichlorodifluoromethane (Freon-12)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether (MTBE)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	**12**	**18**	3.3 H, J	ND	ND	ND	ND	ND	**1400 D**	**2000 D**	**860 H**	**170 D**	**44**	1.2	ND	2.3
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.79 J	1.8 J
Trichloroethene	5	2	ND	ND	1.4	ND	ND	0.45 J	0.18 J	**33**	**53**	**34 H**	**18**	1.9	3.1	4.4	2.8
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	0.58 J	1.4	ND	ND	ND	**20**	**51**	**6.3**	**4.5**
Total cVOCs	--	24.2	24	3.3	4.1	5.8	8.6	10.25	4.26	1445.4	2068	909	338	133.9	77.3	12.59	12.34
Field Measurements (Units as Indicated)																	
pH (units)	--	7.03	6.85	5.91	--	4.06	--	--	6.13	7.05	6.98	6.50	--	4.95	--	--	5.86
Temperature (oC)	--	19.7	18.4	18.7	--	15	--	--	19.7	21	12.2	16.1	--	15.9	--	--	19.7
Specific Conductance (uS)	--	2380	3553	5135	--	0.18	--	--	2070	3690	3604	3602	--	7.99	--	--	14.36
Turbidity	--	38	24.4	>1000	--	55.1	--	--	--	67	123	211	--	69.9	--	--	--
DO (ppm)	--	3.33	2.77	0.23	--	0.94	--	--	--	2.26	2.14	0.97	--	1.44	--	--	--
ORP (mV)	--	48	110	-100	--	118	--	--	74	100	117	-86	--	79	--	--	0.0
Attenuation Parameters - (mg/L)																	
Iron, Dissolved	--	--	--	11.9	45.9	72.3	7.61	--	--	--	--	ND	0.97	0.232	6.89	6.26	--
Manganese, Dissolved	--	--	--	11.3	--	--	--	--	--	--	--	1.8	--	--	--	--	--
Ethane	--	--	--	ND	0.0017	0.0015	--	--	--	--	--	ND	0.0071	ND	--	--	--
Ethene	--	--	--	ND	ND	0.0023	--	--	--	--	--	ND	0.0013	ND	--	--	--
Methane	--	--	--	0.12 J	11 D	23 D	--	--	--	--	--	1.1 J	0.042	3.1 D	--	--	--

PARAMETER[1]	GWQS[2]	SAMPLE LOCATIONS															
		MW-3								MW-4D							
		09/28/10	05/10/11	08/27/14	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17	09/27/10	05/10/11	08/27/14	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17
Volatile Organic Compounds (VOCs) - (ug/L)																	
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	0.69 J D	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	5.6	39 D	ND	ND	12 H	ND	ND	8.9	4.5 J	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	2.8 J	73 D	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	**100 D, X**	**81 X**	3.1 J	18	ND	ND	**69 H**	ND	ND	16 X	3.9 J	5
Benzene	1	ND	ND	ND	ND	ND	ND	ND	0.65 J D	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.54 H, J	ND	11	ND	0.27 J	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	**8.3 D**	ND	ND	1.5 H	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	0.46 J	ND	ND	1.2	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	**2000 D**	**1700**	**3800 H**	**810**	**990 D**	**1100**	**93**	**350 D**	1.7	ND	ND	**11**	**210**	1.7	0.53 J	1.3 J
Dichlorodifluoromethane (Freon-12)	5	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether (MTBE)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	**40 D,J**	ND	**340 H**	**5.1**	ND	ND	0.77 J	3.4 D	**1800 D**	**1900 D**	**730 H**	**560**	**79**	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13**
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	0.37 J	2.6 J D	ND	ND	ND	ND	ND	**8.9**	**18**	2 J
Trichloroethene	5	**62 D**	**32**	**380 H**	**41**	**55 D**	ND	2.4	**9.8 D**	**5.9**	ND	2.5 H	**11**	**18**	ND	0.31 J	1.3
Vinyl chloride	2	ND	**38**	**210 H**	**61**	**55 D**	**42**	**2.3**	**24 D**	ND	ND	ND	ND	**36**	**150**	**170**	**190**
Total cVOCs	--	2102	1770	4730	917.1	1100	1142	98.84	390.49	1807.6	1900	732.5	582	343	160.6	188.84	194.6
Field Measurements (Units as Indicated)																	
pH (units)	--	6.56	6.80	6.47	--	4.21	--	--	4.96	7.40	7.23	6.96	--	5.27	--	5.05	5.33
Temperature (oC)	--	19.4	12	17.7	--	15.9	--	--	19.6	15.2	13.3	16.1	--	16.1	--	10.6	19
Specific Conductance (uS)	--	2001	2909	2219	--	27.89	--	--	21.41	1137	1366	2151	--	14.7	--	107.8	8.92
Turbidity	--	25.8	19.9	>1000	--	105	--	--	--	151	8.75	84.1	--	127	--	--	--
DO (ppm)	--	2.94	2.38	0.25	--	0.64	--	--	--	1.63	2.88	0.57	--	0.49	--	3.5	--
ORP (mV)	--	71	119	-142	--	46	--	--	132	84	66	-112	--	-69	--	59	87
Attenuation Parameters - (mg/L)																	
Iron, Dissolved	--	--	--	10	29.2	54.2	--	--	--	--	--	0.38	0.74	0.923	0.851	0.381	--
Manganese, Dissolved	--	--	--	3.1	--	--	--	--	--	--	--	1.3	--	--	--	--	--
Ethane	--	--	--	ND	0.0027	ND	--	--	--	--	--	ND	ND	ND	--	--	--
Ethene	--	--	--	ND	0.003	ND	--	--	--	--	--	ND	ND	ND	--	--	--
Methane	--	--	--	250	1.2 D	23 D	--	--	--	--	--	1.8 J	0.14	0.61 D	--	--	--

PARAMETER[1]	GWQS[2]	SAMPLE LOCATIONS																							
		MW-5D								MW-103								MW-106							
		09/27/10	05/11/11	08/26/14	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17	09/28/10	05/11/11	08/27/14	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17	09/27/10	05/11/11	08/26/14	12/01/14	04/29/15	08/25/15	12/21/15	08/29/17
Volatile Organic Compounds (VOCs) - (ug/L)																									
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
2-Butanone (MEK)	50	ND	ND	17 J	ND	ND	5.4	ND	28	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
2-Hexanone	--	ND	ND	ND	ND	ND	ND	ND	190	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
4-methyl-2-pentanone (MIBK)	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Acetone	50	ND	ND	30	ND	9.1	ND	1.6	20	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	8.1	8.9	--	ND
Benzene	1	ND	ND	ND	ND	**1.3**	ND	ND	0.41 J	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	0.74 J
Carbon disulfide	--	ND	ND	ND	ND	16	3	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Chloromethane (Methyl chloride)	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	3	**110**	0.54 J	**50**	1.9	ND	--	--	--	--	--	--	0.84 J	ND	ND	--	ND	ND	--	ND
Dichlorodifluoromethane (Freon-12)	5	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	3.2	ND	ND	--	2.2	1.6	--	ND
Methyl tert butyl ether (MTBE)	--	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Tetrachloroethene	5	**120 D**	**140 D**	**7.8**	**8.5**	1.9	ND	**55**	1.3	2.4	ND	--	--	--	--	--	--	**270 D**	**160**	**72**	--	**110**	**100**	--	75
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	--	--	--	--	--	--	ND	ND	ND	--	1.4	1.2	--	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	**3.3**	1	1.9	ND	ND	--	--	--	--	--	--	ND	ND	ND	--	ND	ND	--	ND
Total cVOCs	--	120	140	7.8	8.5	4.9	113.3	56.54	53.2	6.7	0	--	--	--	--	--	--	270.84	160	72	--	111.4	101.2	--	75
Field Measurements (Units as Indicated)																									
pH (units)	--	7.54	7.04	6.95	--	5.75	--	--	5.01	7.14	6.69	--	--	--	--	--	--	7.44	6.95	7.17	--	5.74	--	--	5.39
Temperature (oC)	--	14.7	19.1	16.4	--	16.1	--	--	16.4	22	15.2	--	--	--	--	--	--	17.2	14.1	17.8	--	16.1	--	--	18.5
Specific Conductance (uS)	--	1268	1306	1562	--	77.64	--	--	17.72	4232	5691	--	--	--	--	--	--	1552	2540	1614	--	115.4	--	--	827
Turbidity	--	38.1	7.14	>1000	--	584	--	--	--	58	19.6	--	--	--	--	--	--	51	60.4	272	--	251	--	--	--
DO (ppm)	--	5.78	1.84	0.98	--	1.07	--	--	--	3.41	2.15	--	--	--	--	--	--	3.78	3.38	1.47	--	0.52	--	--	--
ORP (mV)	--	-25	62	-226	--	-151	--	--	61	0	137	--	--	--	--	--	--	54	77	-102	--	57	--	--	156
Attenuation Parameters - (mg/L)																									
Iron, Dissolved	--	--	--	1.3	1.92	2.3	0.525	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--
Manganese, Dissolved	--	--	--	0.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0063	--	--	--	--	--
Ethane	--	--	--	ND	0.003	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--
Ethene	--	--	--	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--
Methane	--	--	--	ND	0.13 D	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)
3. "--" = No GWQS available or parameter not analyzed for.

BOLD = Result exceeds GWQS.

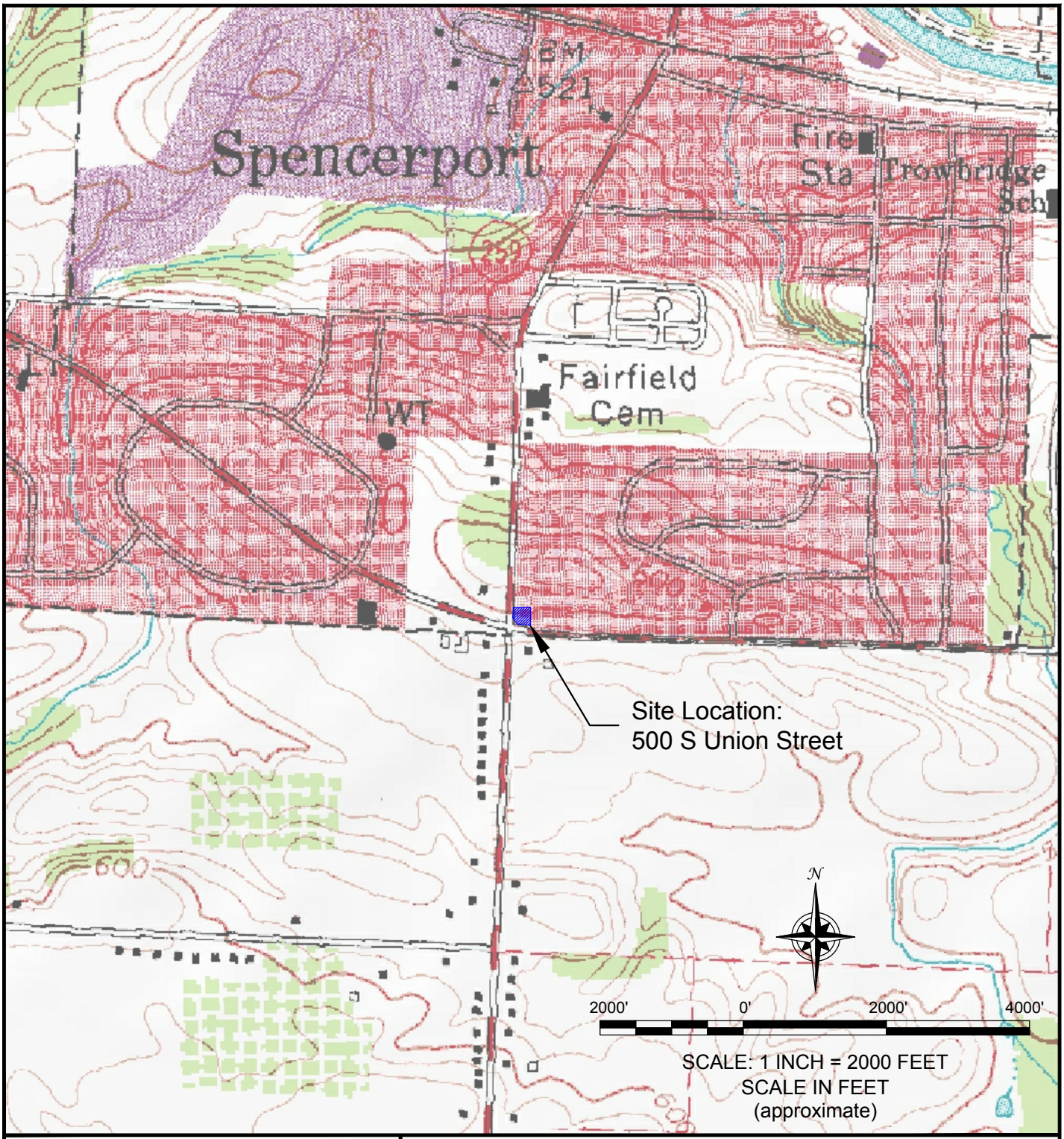
Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analyte was detected in assoziated method blank.
C= Calibration Varification recovery was above the method control limit for the analyte. A high bias may be indicated.
D = Compounds were identified in an analyisis at the secondary dilution factor.
H = Sample analyzed beyond the specified holding time.

FIGURES

F:\CAD\TurnKey\Eyezon Associates\Periodic Review Report\Figure 1; Site Location and Vicinity Map.dwg

FIGURE 1



SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

500 SOUTH UNION STREET SITE
SPENCERPORT, NEW YORK
BCP SITE NO. C828153

PREPARED FOR

EYEZON ASSOCIATES, INC.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.:	0188-017-001
DATE:	OCTOBER 2017
DRAFTED BY:	JJR-CMC

F:\CAD\TurnKey\Eyezon Associates\Periodic Review Report\Figure 2; Site Plan (Aerial).dwg

DATE: OCTOBER 2017
DRAFTED BY: JJR-CMC

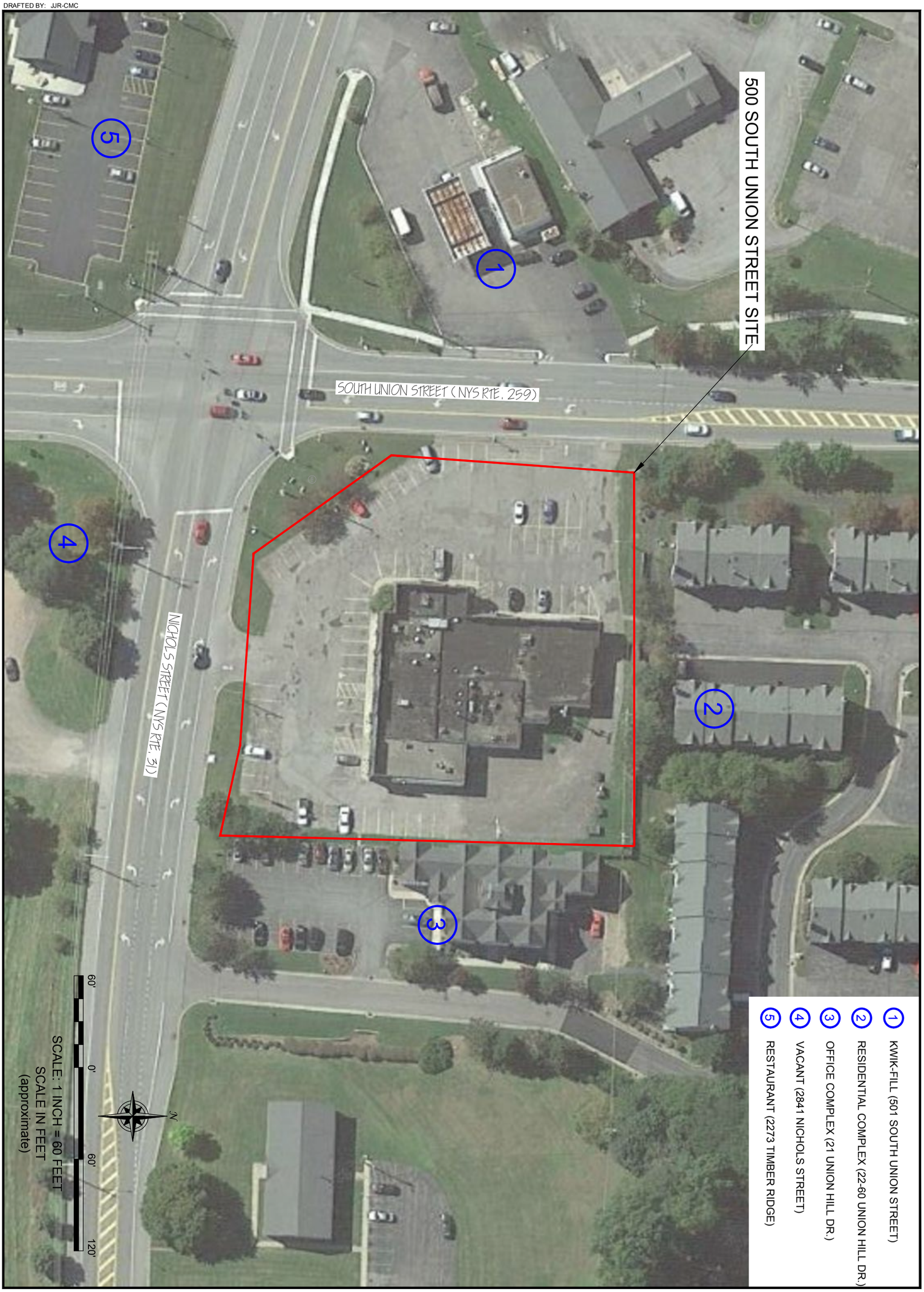


FIGURE 2

SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT

500 SOUTH UNION STREET SITE
SPENCERPORT, NEW YORK
BCP SITE NO. C828153

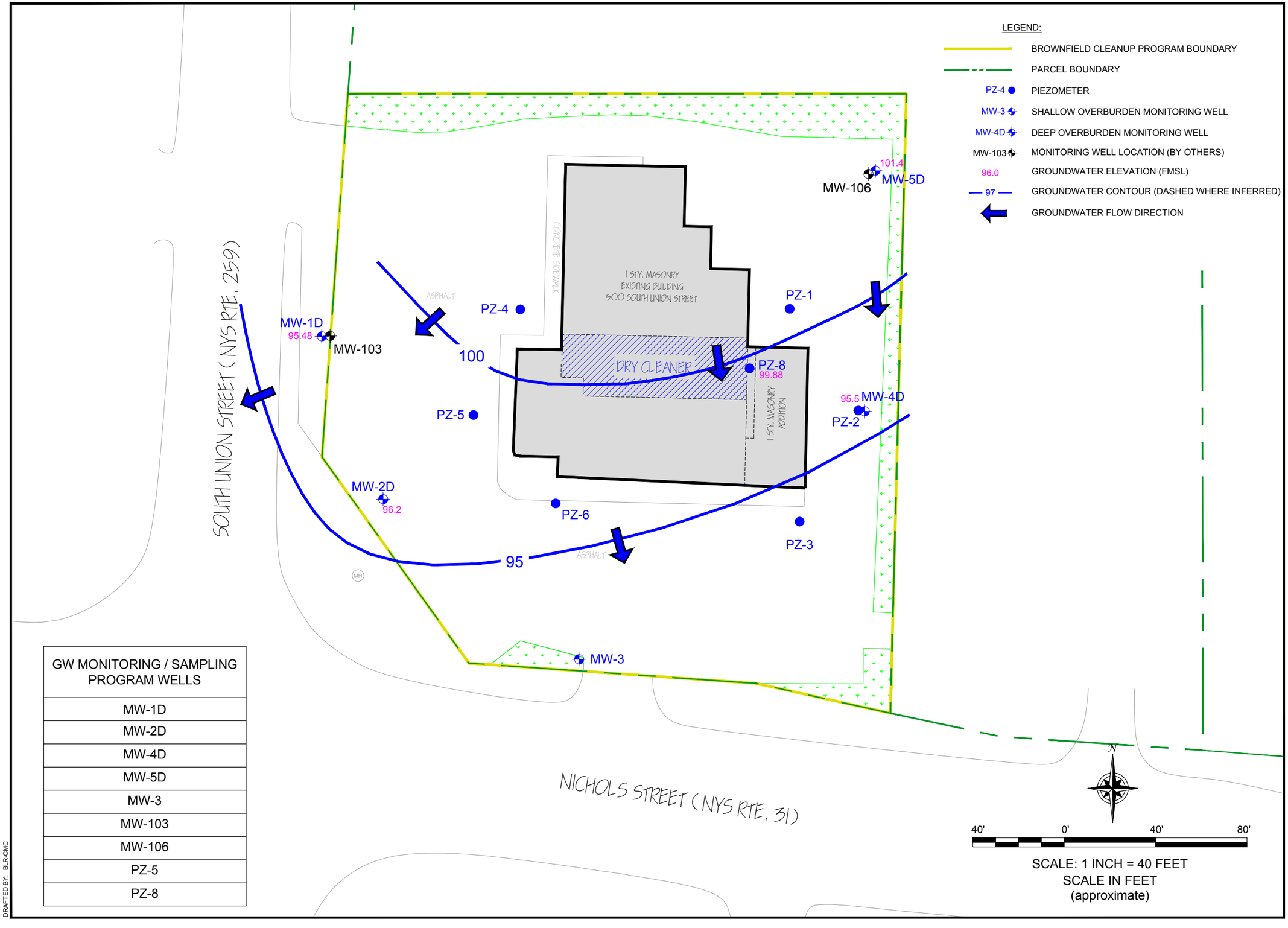
PREPARED FOR

EYEZON ASSOCIATES, INC.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0188-017-001

F:\CAD\TurnKey\Eyezon Associates\Periodic Review Report\Figure 3, Groundwater Isopotential Map.dwg



GW MONITORING / SAMPLING PROGRAM WELLS
MW-1D
MW-2D
MW-4D
MW-5D
MW-3
MW-103
MW-106
PZ-5
PZ-8

DATE: OCTOBER 2017
DRAFTED BY: BLR-CMC

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0188-017-001

GROUNDWATER ISOPOTENTIAL MAP (DECEMBER 2016)

PERIODIC REVIEW REPORT

500 SOUTH UNION STREET SITE
SPENCERPORT, NEW YORK
BCP SITE NO. C828153

PREPARED FOR
EYEZON ASSOCIATES, INC.

FIGURE 3

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Site Management Periodic Review Report Notice

Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C828153**

Site Name **500 South Union St. Site**

Site Address: 500 South Union Street
Zip Code: 14559
City/Town: Spencerport
County: Monroe
Site Acreage: 1.3

Reporting Period: ~~December 23, 2014 to May 31, 2016~~
June 1, 2016 to Aug 31, 2017

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

	YES	NO
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative — Date

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

	YES	NO
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C828153

Description of institutional Controls

Parcel	Owner	Institutional Control
087.17-1-61	Eyezon Associates, Inc.	Groundwater Use Restriction Soil Management Plan Land Use Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

* The property may only be used for commercial and industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.

* The property may not be used for a higher level of use, such as unrestricted, residential, and restricted-residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

* All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;

* The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

* The potential for vapor intrusion must be evaluated for any additional buildings developed on-site, and any potential impacts that are identified must be monitored or mitigated;

* Vegetable gardens and farming on the property are prohibited;

Description of Engineering Controls

Parcel	Engineering Control
087.17-1-61	Cover System

* A site cover currently exists and will be maintained to allow for commercial use of the site. Any redevelopment will maintain a site cover, which may consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where a soil cover is required it will be a minimum of one foot of soil meeting the SCOS for the cover material as forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer,

with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

Parcel	Engineering Control
087.17-1-61	Vapor Mitigation

* The on-site building, and if deemed necessary any future occupied buildings on-site, will be required to have a sub-slab depressurization system, or a similar engineered system, to prevent the migration of vapors into the building from soil and/or groundwater.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C828153

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert Spencer at 500 S. Union St Spencerport N.Y.,
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Robert Spencer
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

11-7-17
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michael Leszkowski at 2558 Hamburg Turnpike,
print name print business address

am certifying as a ~~Professional Engineer for the~~ _____
(Owner or Remedial Party)

_____ _____ NOV 2017
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date

APPENDIX B

SITE PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1: Site Inspection – South side of building (looking north).

Photo 2: Site Inspection - West side of property (looking north).

Photo 3: Site Inspection - North side of building (looking west).

Photo 4: Site Inspection - East side of property (looking south).

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

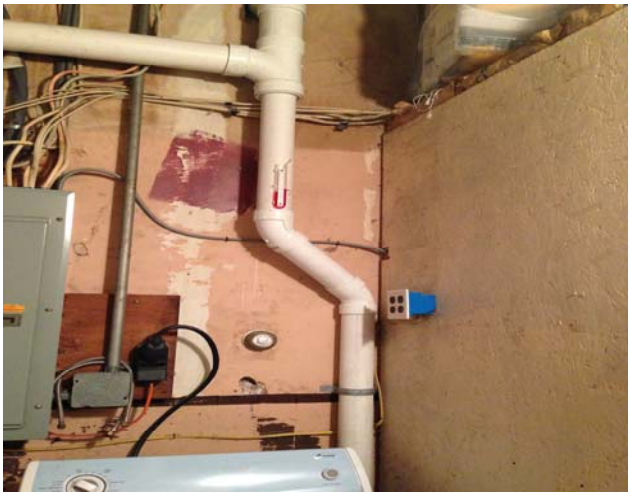


Photo 8:

Photo 5: ASD System Inspection (Magnehelic Gauge).

Photo 6: ASD System Inspection – Exterior fans

Photo 7: ASD System Inspection – U-tube manometer and piping.

Photo 8: ASD System Inspection – U-tube manometer (inside hair salon)

APPENDIX C

ASD SYSTEM INSPECTION LOGS

500 South Union Street Site (C828153)
ASD System Inspection Log

Date	Time	Inspector's Initials	Fan System -1 (in.WC)	Fan System -2 (in.WC)	Fan System -3 (in.WC)	Fan System -4 (in.WC)
1-20-15	1 PM	RJ	.3	1.33	1.7	1.2
2-10-15	3 PM	RJ	.3	1.34	1.7	1.2
3-11-15	3 PM	RJ	.3	1.35	1.7	1.2
4-8-15	4 PM	RS	.3	1.32	1.7	1.2
5-4-15	4 PM	RS	.3	1.32	1.7	1.2
6-2-15	5 PM	RS	.3	1.33	1.7	1.2
7-7-15	6 PM	RS	.4	1.31	1.7	1.2
8-5-15	6 PM	RJ	.4	1.30	1.7	1.2
9-3-15	5 PM	RS	.3	1.29	1.7	1.2
10-14-15	5 PM	RS	.3	1.28	1.7	1.2
11-16-15	4 PM	RJ	.2	1.27	1.7	1.2
12-7-15	2 PM	RS	.2	1.27	1.7	1.2
1-18-16	3 PM	RS	.1	1.30	1.7	1.2
2-9-16	2 PM	RS	.1	1.32	1.7	1.2
3-2-16	5 PM	RS	.1	1.31	1.7	1.2
4-4-16	5 PM	RS	.1	1.32	1.7	1.2
5-11-16	3 PM	RS	.4	1.27	1.7	1.2
6-7-16	5 PM	RS	.4	1.29	1.7	1.2
7-12-16	5 PM	RJ	.3	1.30	1.6	1.2
8-29-16	6 PM	RJ	.3	1.31	1.6	1.2
9-27-16	6 PM	RJ	.3	1.30	1.6	1.2
10-24-16	5 PM	RJ	.4	1.28	1.6	1.2
11-21-16	4 PM	RJ	.3	1.31	1.6	1.2
12-6-16	3 PM	RJ	.4	1.30	1.6	1.2
1-17-17	3 PM	RJ	.4	1.31	1.6	1.2
2-27-17	5 PM	RJ	.3	1.30	1.6	1.2
3-21-17	4 PM	RJ	.3	1.30	1.6	1.2
4-18-17	6 PM	RJ	.3	1.30	1.6	1.2
5-9-17	5 PM	RJ	.4	1.30	1.6	1.2
6-6-17	5 PM	RJ	.4	1.30	1.6	1.2
7-17-17	6 PM	RJ	.2	1.30	1.6	1.2
8-22-17	5 PM	RJ	.3	1.30	1.6	1.2
9-18-17	4 PM	RJ	.4	1.30	1.6	1.2
10-24-17	3 PM	RJ	.4	1.30	1.5	1.2

Notes:

Date	

Field Inspection Report
Post-Remedial Operation & Maintenance Plan

Property Name: 500 South Union Street Site Project No.: T0188-013-001

Client: Eyezon Associates, Inc.

Property Address: 500 South Union Street, Spencerport NY

Property ID: (Tax Assessment Map) Section: 87.17 Block: 1 Lot(s): 61

Preparer's Charlotte Clark Date/Time: 8/29/2017

CERTIFICATION

The results of this inspection were discussed with the Site Manager. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Action Form has been completed. Proper implementation of these corrective actions have been discussed with the Site Manager, agreed upon, and scheduled.

Preparer / Inspector: **Date:** 8/29/17

Signature:

Next Scheduled Inspection Date:

Property Access

1. Is the access road in need of repair?	☐ yes	☒ no	☐ N/A
2. Sufficient signage posted (No Trespassing)?	☐ yes	☐ no	☐ N/A
3. Has there been any noted or reported trespassing?	☐ yes	☒ no	☐ N/A

Please note any irregularities/ changes in site access and security:

Final Surface Cover / Vegetation

The integrity of the vegetative soil cover or other surface coverage (e.g., asphalt, concrete) over the entire Site must be maintained. The following documents the condition of the above.

1. Final Cover is in Place and in good condition?	☒ yes	☐ no	☐ N/A
Cover consists of (mainly): stone, asphalt, grass			
2. Evidence of erosion?	☐ yes	☒ no	☐ N/A
3. Cracks visible in pavement?	☐ yes	☒ no	☐ N/A
4. Evidence of distressed vegetation/turf?	☐ yes	☒ no	☐ N/A
5. Evidence of unintended traffic and/or rutting?	☐ yes	☒ no	☐ N/A
6. Evidence of uneven settlement and/or ponding?	☐ yes	☒ no	☐ N/A

TurnKey Environmental Restoration, LLC

Field Inspection Report
Post-Remedial Operation & Maintenance Plan

New Information

Has any new information been brought to the owner/engineer's attention regarding any and/or all engineering and institutional controls and their operation and effectiveness?

☐ yes ☒ no ☐ N/A

Comments: _____

This space for Notes and Comments

Please include the following Attachments:

1. Site Sketch
2. Photographs

Active Sub-Slab Depressurization System
Annual Operation & Maintenance
Certification Checklist

Project Name:	500 South Union Street Site	Project No.:	T0188-013-001
Project Location:	Spencerport, NY	Client:	Eyezon Associates
Preparer's Name:		Date/Time:	8/29/2017

Notes:

System Information

Has monthly system inspection been completed regularly?	☐ yes	☒ no
Are last 11 inspection logs attached for the past 12 months?	☐ yes	☒ no

What is the current Vacuum reading? [ ] see attached log sheet

System Updates, Maintenance, Part Replacement

TurnKey Environmental Restoration, LLC

Active Sub-Slab Depressurization System
Annual Operation & Maintenance
Certification Checklist

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Restaurant, Dry-cleaner, Hair salon

Has this general use changed in the past year? ☐ yes ☒ no

If yes, please explain:

Building Renovations:

Have any building renovations taken place in the last month? ☐ yes ☒ no

If yes, please provide more information below, and sketch any basement floor plan modifications on the floor plan sketch below.

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☒ no

If so, please list with date:

500 South Union Street Site (C828153)
ASD System Inspection Log

Date	Time	Inspector's Initials	Fan System -1 (in.WC)	Fan System -2 (in.WC)	Fan System -3 (in.WC)	Fan System -4 (in.WC)
4/22/16	14[illegible]	PLW	.4	1.9	1.3	1.2
8/29/17	16:55	CMC	0.45	1.4	1.3	1.2

Notes:

Date	
4/22/16	F1 tubing was pulled out of view tube. Fixed tubing reading = 4 → ok
8/29/17	Tubing ~~pulling~~ pulled, alarm functional

APPENDIX D

ANALYTICAL LABORATORY REPORTS

ANALYTICAL REPORT

Lab Number:	L1730658
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 856-0599
Project Name:	500 SOUTH UNION STREET SITE
Project Number:	T0188-013-001
Report Date:	09/07/17

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1730658-01	MW-3	WATER	SPENCERPORT, NY	08/29/17 15:20	08/30/17
L1730658-02	MW-2D	WATER	SPENCERPORT, NY	08/29/17 14:45	08/30/17
L1730658-03	MW-1D	WATER	SPENCERPORT, NY	08/29/17 13:55	08/30/17
L1730658-04	MW-4D	WATER	SPENCERPORT, NY	08/29/17 15:55	08/30/17
L1730658-05	MW-106	WATER	SPENCERPORT, NY	08/29/17 14:30	08/30/17
L1730658-06	MW-5D	WATER	SPENCERPORT, NY	08/29/17 16:35	08/30/17
L1730658-07	PZ-8	WATER	SPENCERPORT, NY	08/29/17 16:15	08/30/17
L1730658-08	PZ-5	WATER	SPENCERPORT, NY	08/29/17 15:05	08/30/17
L1730658-09	BLIND DUP	WATER	SPENCERPORT, NY	08/29/17 00:00	08/30/17
L1730658-10	TRIP BLANK	WATER	SPENCERPORT, NY	08/29/17 00:00	08/30/17

Project Name:	500 SOUTH UNION STREET SITE	**Lab Number:**	L1730658
Project Number:	T0188-013-001	**Report Date:**	09/07/17

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	500 SOUTH UNION STREET SITE	**Lab Number:**	L1730658
Project Number:	T0188-013-001	**Report Date:**	09/07/17

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.

Sample Receipt

A Trip Blank was received in the laboratory, but not listed on the Chain of Custody, and was not analyzed.

Volatile Organics

L1730658-08: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

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: Melissa Cripps

Title: Technical Director/Representative Date: 09/07/17

ORGANICS

VOLATILES

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-01 D
Client ID: MW-3
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 15:20
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/06/17 22:06
Analyst: NL

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	3.4		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	0.65	J	ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	24		ug/l	2.0	0.14	2
Chloroethane	8.3		ug/l	5.0	1.4	2
1,1-Dichloroethene	0.69	J	ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	2.6	J	ug/l	5.0	1.4	2
Trichloroethene	9.8		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-01 D Date Collected: 08/29/17 15:20

Client ID: MW-3 Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	350		ug/l	5.0	1.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	18		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	39		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	73		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-02
Client ID: MW-2D
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 14:45
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/06/17 19:43
Analyst: NL

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	2.3		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	4.5		ug/l	1.0	0.07	1
Chloroethane	6.0		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
Trichloroethene	2.8		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-02 Date Collected: 08/29/17 14:45

Client ID: MW-2D Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	0.94	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	1.1	J	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	90		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-03
Client ID: MW-1D
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 13:55
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/06/17 16:15
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	0.58	J	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	0.18	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-03 Date Collected: 08/29/17 13:55

Client ID: MW-1D Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	3.5		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	1.5	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	118		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-04
Client ID: MW-4D
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 15:55
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/06/17 16:41
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	13		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	190		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	2.0	J	ug/l	2.5	0.70	1
Trichloroethene	1.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-04 Date Collected: 08/29/17 15:55

Client ID: MW-4D Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	5.0		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	118		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-05
Client ID: MW-106
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 14:30
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/06/17 20:19
Analyst: NL

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	75		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	0.74	J	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-05 Date Collected: 08/29/17 14:30

Client ID: MW-106 Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-06
Client ID: MW-5D
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 16:35
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/06/17 20:55
Analyst: NL

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	1.3		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	0.41	J	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	1.9		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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-06 Date Collected: 08/29/17 16:35

Client ID: MW-5D Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	50		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	20		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	28		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	190		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	90		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-07
Client ID: PZ-8
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 16:15
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/06/17 21:30
Analyst: NL

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	1.2	J	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	1.6		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	4.1		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	0.97		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-07 Date Collected: 08/29/17 16:15

Client ID: PZ-8 Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	64		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	104		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-08 D
Client ID: PZ-5
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 15:05
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/07/17 08:49
Analyst: BD

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	28		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	140		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	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-08 D Date Collected: 08/29/17 15:05

Client ID: PZ-5 Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	330		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	400		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	300		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
n-Butylbenzene	ND		ug/l	50	14.	20
sec-Butylbenzene	ND		ug/l	50	14.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
p-Isopropyltoluene	ND		ug/l	50	14.	20
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	50	14.	20
1,2,4-Trimethylbenzene	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	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-09
Client ID: BLIND DUP
Sample Location: SPENCERPORT, NY

Date Collected: 08/29/17 00:00
Date Received: 08/30/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/07/17 12:34
Analyst: BD

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	13		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	180		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	2.1	J	ug/l	2.5	0.70	1
Trichloroethene	1.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

SAMPLE RESULTS

Lab ID: L1730658-09 Date Collected: 08/29/17 00:00

Client ID: BLIND DUP Date Received: 08/30/17

Sample Location: SPENCERPORT, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	1.6	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	3.5	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/06/17 12:29
Analyst: NL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1039144-5					
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: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/06/17 12:29
Analyst: NL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1039144-5					
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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	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: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001
Lab Number: L1730658
Report Date: 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/06/17 12:29
Analyst: NL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1039144-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/06/17 19:08
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,05-07 Batch: WG1039331-5					
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: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/06/17 19:08
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,05-07 Batch: WG1039331-5					
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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	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: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001
Lab Number: L1730658
Report Date: 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/06/17 19:08
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,05-07 Batch: WG1039331-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/17 08:21
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1039374-5					
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: 500 SOUTH UNION STREET SITE **Lab Number:** L1730658

Project Number: T0188-013-001 **Report Date:** 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/17 08:21
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1039374-5					
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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	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: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001
Lab Number: L1730658
Report Date: 09/07/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/07/17 08:21
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1039374-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1039144-3 WG1039144-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		99		70-130	1		20
Carbon tetrachloride	100		97		63-132	3		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	93		90		70-130	3		20
Chlorobenzene	96		95		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	99		97		67-130	2		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	95		94		54-136	1		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	99		98		70-130	1		20
Toluene	97		95		70-130	2		20
Ethylbenzene	97		96		70-130	1		20
Chloromethane	100		100		64-130	0		20
Bromomethane	98		96		39-139	2		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1039144-3 WG1039144-4								
Chloroethane	100		94		55-138	6		20
1,1-Dichloroethene	97		95		61-145	2		20
trans-1,2-Dichloroethene	95		94		70-130	1		20
Trichloroethene	97		95		70-130	2		20
1,2-Dichlorobenzene	98		97		70-130	1		20
1,3-Dichlorobenzene	96		95		70-130	1		20
1,4-Dichlorobenzene	97		95		70-130	2		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	95		94		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	130		120		58-148	8		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	99		100		59-130	1		20
2-Hexanone	100		110		57-130	10		20
Bromochloromethane	99		98		70-130	1		20
1,2-Dibromoethane	110		110		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		99		70-130	1		20
1,2-Dibromo-3-chloropropane	96		97		41-144	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE

Project Number: T0188-013-001

Lab Number: L1730658

Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1039144-3 WG1039144-4								
Isopropylbenzene	97		96		70-130	1		20
p-Isopropyltoluene	99		97		70-130	2		20
n-Propylbenzene	100		99		69-130	1		20
1,2,3-Trichlorobenzene	120		120		70-130	0		20
1,2,4-Trichlorobenzene	110		100		70-130	10		20
1,3,5-Trimethylbenzene	97		96		64-130	1		20
1,2,4-Trimethylbenzene	98		96		70-130	2		20
Methyl Acetate	110		120		70-130	9		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	82		110		56-162	**29**	Q	20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	90		88		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		115		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	103		106		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-07 Batch: WG1039331-3 WG1039331-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	96		100		70-130	4		20
Chloroform	87		93		70-130	7		20
Carbon tetrachloride	64		72		63-132	12		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	83		88		63-130	6		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	88		93		70-130	6		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	86		95		62-150	10		20
1,2-Dichloroethane	88		93		70-130	6		20
1,1,1-Trichloroethane	**66**	Q	76		67-130	14		20
Bromodichloromethane	81		86		67-130	6		20
trans-1,3-Dichloropropene	73		78		70-130	7		20
cis-1,3-Dichloropropene	79		87		70-130	10		20
Bromoform	70		76		54-136	8		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		110		70-130	10		20
Toluene	100		110		70-130	10		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	**140**	Q	**140**	Q	64-130	0		20
Bromomethane	130		130		39-139	0		20
Vinyl chloride	120		120		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-07 Batch: WG1039331-3 WG1039331-4								
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	95		100		61-145	5		20
trans-1,2-Dichloroethene	96		100		70-130	4		20
Trichloroethene	92		97		70-130	5		20
1,2-Dichlorobenzene	100		110		70-130	10		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	71		79		63-130	11		20
p/m-Xylene	110		120		70-130	9		20
o-Xylene	115		120		70-130	4		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Styrene	115		120		70-130	4		20
Dichlorodifluoromethane	120		130		36-147	8		20
Acetone	130		87		58-148	**40**	Q	20
Carbon disulfide	110		98		51-130	12		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	100		100		57-130	0		20
Bromochloromethane	97		110		70-130	13		20
1,2-Dibromoethane	98		100		70-130	2		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	110		120		70-130	9		20
1,2-Dibromo-3-chloropropane	63		71		41-144	12		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE

Project Number: T0188-013-001

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Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-07 Batch: WG1039331-3 WG1039331-4								
Isopropylbenzene	110		120		70-130	9		20
p-Isopropyltoluene	110		120		70-130	9		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	80		99		70-130	**21**	Q	20
1,2,4-Trichlorobenzene	88		91		70-130	3		20
1,3,5-Trimethylbenzene	110		120		64-130	9		20
1,2,4-Trimethylbenzene	110		120		70-130	9		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	110		120		70-130	9		20
1,4-Dioxane	96		100		56-162	4		20
Freon-113	97		110		70-130	13		20
Methyl cyclohexane	94		100		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		93		70-130
Toluene-d8	106		105		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	101		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1039374-3 WG1039374-4								
Methylene chloride	99		95		70-130	4		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	100		98		70-130	2		20
Carbon tetrachloride	100		96		63-132	4		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	100		97		63-130	3		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	96		90		70-130	6		20
Chlorobenzene	100		96		75-130	4		20
Trichlorofluoromethane	95		89		62-150	7		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	98		92		67-130	6		20
Bromodichloromethane	100		98		67-130	2		20
trans-1,3-Dichloropropene	110		100		70-130	10		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	99		94		54-136	5		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	100		95		70-130	5		20
Toluene	100		98		70-130	2		20
Ethylbenzene	100		98		70-130	2		20
Chloromethane	100		94		64-130	6		20
Bromomethane	72		70		39-139	3		20
Vinyl chloride	110		100		55-140	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE

Project Number: T0188-013-001

Lab Number: L1730658

Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1039374-3 WG1039374-4								
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	92		84		61-145	9		20
trans-1,2-Dichloroethene	96		90		70-130	6		20
Trichloroethene	100		97		70-130	3		20
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	100		98		70-130	2		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		96		70-130	4		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	120		110		58-148	9		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	**140**	Q	130		63-138	7		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	130		120		57-130	8		20
Bromochloromethane	99		96		70-130	3		20
1,2-Dibromoethane	100		100		70-130	0		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	110		100		41-144	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE

Project Number: T0188-013-001

Lab Number: L1730658

Report Date: 09/07/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1039374-3 WG1039374-4								
Isopropylbenzene	100		97		70-130	3		20
p-Isopropyltoluene	110		99		70-130	11		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	95		90		70-130	5		20
1,2,4-Trichlorobenzene	97		92		70-130	5		20
1,3,5-Trimethylbenzene	110		99		64-130	11		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
Methyl Acetate	120		120		70-130	0		20
Cyclohexane	110		98		70-130	12		20
1,4-Dioxane	**166**	Q	156		56-162	6		20
Freon-113	98		91		70-130	7		20
Methyl cyclohexane	100		93		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	96		96		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001
Lab Number: L1730658
Report Date: 09/07/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-07 QC Batch ID: WG1039331-6 WG1039331-7 QC Sample: L1730658-02 Client ID: MW-2D												
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
Chloroform	ND	10	10	100		10	100		70-130	0		20
Carbon tetrachloride	ND	10	7.0	70		7.6	76		63-132	8		20
1,2-Dichloropropane	ND	10	12	120		11	110		70-130	9		20
Dibromochloromethane	ND	10	8.5	85		8.9	89		63-130	5		20
1,1,2-Trichloroethane	ND	10	11	110		11	110		70-130	0		20
Tetrachloroethene	2.3	10	13	107		13	107		70-130	0		20
Chlorobenzene	ND	10	12	120		12	120		75-130	0		20
Trichlorofluoromethane	ND	10	11	110		11	110		62-150	0		20
1,2-Dichloroethane	ND	10	10	100		10	100		70-130	0		20
1,1,1-Trichloroethane	ND	10	8.2	82		8.6	86		67-130	5		20
Bromodichloromethane	ND	10	8.8	88		9.0	90		67-130	2		20
trans-1,3-Dichloropropene	ND	10	7.8	78		7.9	79		70-130	1		20
cis-1,3-Dichloropropene	ND	10	8.8	88		9.0	90		70-130	2		20
Bromoform	ND	10	6.7	67		7.1	71		54-136	6		20
1,1,2,2-Tetrachloroethane	ND	10	12	120		12	120		67-130	0		20
Benzene	ND	10	12	120		12	120		70-130	0		20
Toluene	ND	10	12	120		12	120		70-130	0		20
Ethylbenzene	ND	10	12	120		12	120		70-130	0		20
Chloromethane	ND	10	13	130		12	120		64-130	8		20
Bromomethane	ND	10	6.7	67		9.5	95		39-139	**35**	Q	20
Vinyl chloride	4.5	10	20	**155**	Q	27	**225**	Q	55-140	**30**	Q	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE

Project Number: T0188-013-001

Lab Number: L1730658

Report Date: 09/07/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-07 QC Batch ID: WG1039331-6 WG1039331-7 QC Sample: L1730658-02 Client ID: MW-2D												
Chloroethane	6.0	10	20	**140**	Q	21	**150**	Q	55-138	5		20
1,1-Dichloroethene	ND	10	12	120		12	120		61-145	0		20
trans-1,2-Dichloroethene	1.8J	10	14	**140**	Q	14	**140**	Q	70-130	0		20
Trichloroethene	2.8	10	14	112		21	**182**	Q	70-130	**40**	Q	20
1,2-Dichlorobenzene	ND	10	12	120		12	120		70-130	0		20
1,3-Dichlorobenzene	ND	10	12	120		12	120		70-130	0		20
1,4-Dichlorobenzene	ND	10	11	110		12	120		70-130	9		20
Methyl tert butyl ether	ND	10	8.9	89		9.0	90		63-130	1		20
p/m-Xylene	ND	20	26	130		26	130		70-130	0		20
o-Xylene	ND	20	26	130		26	130		70-130	0		20
cis-1,2-Dichloroethene	0.94J	10	12	120		15	**150**	Q	70-130	**22**	Q	20
Styrene	ND	20	26	130		26	130		70-130	0		20
Dichlorodifluoromethane	ND	10	15	**150**	Q	15	**150**	Q	36-147	0		20
Acetone	ND	10	12	120		11	110		58-148	9		20
Carbon disulfide	1.1J	10	13	130		12	120		51-130	8		20
2-Butanone	ND	10	12	120		12	120		63-138	0		20
4-Methyl-2-pentanone	ND	10	11	110		11	110		59-130	0		20
2-Hexanone	ND	10	11	110		11	110		57-130	0		20
Bromochloromethane	ND	10	12	120		12	120		70-130	0		20
1,2-Dibromoethane	ND	10	11	110		11	110		70-130	0		20
n-Butylbenzene	ND	10	11	110		12	120		53-136	9		20
sec-Butylbenzene	ND	10	13	130		13	130		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	7.0	70		7.0	70		41-144	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-07 QC Batch ID: WG1039331-6 WG1039331-7 QC Sample: L1730658-02 Client ID: MW-2D												
Isopropylbenzene	ND	10	13	130		13	130		70-130	0		20
p-Isopropyltoluene	ND	10	12	120		12	120		70-130	0		20
n-Propylbenzene	ND	10	12	120		12	120		69-130	0		20
1,2,3-Trichlorobenzene	ND	10	12	120		12	120		70-130	0		20
1,2,4-Trichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,3,5-Trimethylbenzene	ND	10	12	120		13	130		64-130	8		20
1,2,4-Trimethylbenzene	ND	10	13	130		13	130		70-130	0		20
Methyl Acetate	ND	10	11	110		11	110		70-130	0		20
Cyclohexane	ND	10	13	130		14	**140**	Q	70-130	7		20
1,4-Dioxane	ND	500	470	94		530	106		56-162	12		20
Freon-113	ND	10	12	120		12	120		70-130	0		20
Methyl cyclohexane	ND	10	11	110		11	110		70-130	0		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	105		105		70-130
Toluene-d8	105		106		70-130

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

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(*)
L1730658-01A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-01B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-01C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02A1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02A2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02B1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02B2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02C1	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-02C2	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-03A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-03B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-03C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-04A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-04B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-04C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-05A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-05B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-05C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-06A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-06B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 500 SOUTH UNION STREET SITE
Project Number: T0188-013-001

Lab Number: L1730658
Report Date: 09/07/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730658-06C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-07A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-07B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-07C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-08A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-08B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-08C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-09A	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-09B	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-09C	Vial HCl preserved	A	NA		3.0	Y	Absent		NYTCL-8260(14)
L1730658-10A	Vial HCl preserved	A	NA		3.0	Y	Absent		HOLD-8260(14)
L1730658-10B	Vial HCl preserved	A	NA		3.0	Y	Absent		HOLD-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	500 SOUTH UNION STREET SITE	**Lab Number:**	L1730658
Project Number:	T0188-013-001	**Report Date:**	09/07/17

GLOSSARY

Acronyms

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).
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.
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.
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.
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

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	500 SOUTH UNION STREET SITE	**Lab Number:**	L1730658
Project Number:	T0188-013-001	**Report Date:**	09/07/17

Data Qualifiers

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.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

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.

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).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	500 SOUTH UNION STREET SITE	**Lab Number:**	L1730658
Project Number:	T0188-013-001	**Report Date:**	09/07/17

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.

Certification Information

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

Westborough Facility
EPA 624: 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 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, SM4500Cl-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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, 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

ALPHA ANALYTICAL

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: 8/31/17

ALPHA Job #: L1730658

Client Information
Client: Turnkey Environmental
Address: 2558 Hamburg Turnpike
Buffalo NY 14218
Phone: 716-856-0599
Fax:
Email: nmunley@turnkeyllc.com

Project Information
Project Name: 500 South Union Street Site
Project Location: Spencerport NY
Project #: T0188-013-001
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NY TCL + CP-51 VOC	Sample Specific Comments	Total Bottle
30659-01	MW-3	8-29-17	15:20	Water	CMC/NAS	X		3
02	MW-2D		14:45		CMC/NAS	X		3
03	MW-1D		13:55		CMC/NAS	X	MS/MSD	3
04	MW-4D		15:55		CMC/NAS	X		3
05	MW-106		14:30		CMC/NAS	X		3
06	MW-5D		16:35		CMC/NAS	X		3
07	PZ-8		16:15		CMC/NAS	X		3
08	PZ-5		15:05		CMC/NAS	X		3
09	Blind Dup	↓	—	↓	CMC/NAS	X		3
								3

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
Charlotte Clark	8/29/17 18:00		
	8/30/17 1440		8/30/17 1440
			8/31/17 0035

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. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1641070
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Josh Robinson
Phone:	(716) 856-0599
Project Name:	500 SOUTH UNION STREET
Project Number:	T0188-013-001
Report Date:	12/23/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1641070-01	MW-1D	WATER	SPENCERPORT.	12/15/16 10:25	12/16/16
L1641070-02	MW-2D	WATER	SPENCERPORT.	12/15/16 13:05	12/16/16
L1641070-03	MW-2D DUP	WATER	SPENCERPORT.	12/15/16 13:05	12/16/16
L1641070-04	MW-3	WATER	SPENCERPORT.	12/15/16 12:30	12/16/16
L1641070-05	MW-4D	WATER	SPENCERPORT.	12/15/16 13:45	12/16/16
L1641070-06	MW-5D	WATER	SPENCERPORT.	12/15/16 14:45	12/16/16
L1641070-07	TRIP BLANK	WATER	SPENCERPORT.	12/15/16 09:00	12/16/16

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1641070
Project Number:	T0188-013-001	**Report Date:**	12/23/16

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.

Sample Receipt

One container for sample "MW-4D" was received empty; however, there was adequate sample remaining to perform the requested analysis.

Volatile Organics

The WG963746-6/-7 MS/MSD recoveries, performed on L1641070-05, are outside the acceptance criteria for vinyl chloride (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

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:  Melissa Cripps

Title: Technical Director/Representative Date: 12/23/16

ORGANICS

VOLATILES

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-01
Client ID: MW-1D
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/21/16 19:39
Analyst: PD

Date Collected: 12/15/16 10:25
Date Received: 12/16/16
Field Prep: Not Specified

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	0.21	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-01 Date Collected: 12/15/16 10:25

Client ID: MW-1D Date Received: 12/16/16

Sample Location: SPENCERPORT. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	2.2	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	6.9		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	3.5	J	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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	78		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-02
Client ID: MW-2D
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/21/16 20:11
Analyst: PD

Date Collected: 12/15/16 13:05
Date Received: 12/16/16
Field Prep: Not Specified

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	2.0		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	13		ug/l	1.0	0.07	1
Chloroethane	6.3		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	2.9		ug/l	2.5	0.70	1
Trichloroethene	3.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-02 Date Collected: 12/15/16 13:05

Client ID: MW-2D Date Received: 12/16/16

Sample Location: SPENCERPORT. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	2.9		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	7.8		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	78		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	94		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-03
Client ID: MW-2D DUP
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/22/16 17:33
Analyst: PD

Date Collected: 12/15/16 13:05
Date Received: 12/16/16
Field Prep: Not Specified

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	2.0		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	15		ug/l	1.0	0.07	1
Chloroethane	4.9		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	3.1		ug/l	2.5	0.70	1
Trichloroethene	3.7		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-03 Date Collected: 12/15/16 13:05

Client ID: MW-2D DUP Date Received: 12/16/16

Sample Location: SPENCERPORT. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	3.1		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	10		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	123		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-04 D
Client ID: MW-3
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/21/16 20:43
Analyst: PD

Date Collected: 12/15/16 12:30
Date Received: 12/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	4.6	J	ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	29		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	17		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-04 D Date Collected: 12/15/16 12:30

Client ID: MW-3 Date Received: 12/16/16

Sample Location: SPENCERPORT. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	710		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	69		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	130		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	180		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	94		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-05
Client ID: MW-4D
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/21/16 16:00
Analyst: PD

Date Collected: 12/15/16 13:45
Date Received: 12/16/16
Field Prep: Not Specified

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	0.99	J	ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	500	E	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	34		ug/l	2.5	0.70	1
Trichloroethene	0.60		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-05 Date Collected: 12/15/16 13:45

Client ID: MW-4D Date Received: 12/16/16

Sample Location: SPENCERPORT. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	9.5		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	124		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-05 D
Client ID: MW-4D
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/22/16 18:07
Analyst: PD

Date Collected: 12/15/16 13:45
Date Received: 12/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Vinyl chloride	510		ug/l	10	0.71	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-06 D
Client ID: MW-5D
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/21/16 21:16
Analyst: PD

Date Collected: 12/15/16 14:45
Date Received: 12/16/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	1.5		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	0.78	J	ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	3.2		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	ND		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-06 D Date Collected: 12/15/16 14:45

Client ID: MW-5D Date Received: 12/16/16

Sample Location: SPENCERPORT. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	110		ug/l	5.0	1.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	52		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	99		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	260		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-07
Client ID: TRIP BLANK
Sample Location: SPENCERPORT.
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 12/21/16 19:06
Analyst: PD

Date Collected: 12/15/16 09:00
Date Received: 12/16/16
Field Prep: Not Specified

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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

SAMPLE RESULTS

Lab ID: L1641070-07 Date Collected: 12/15/16 09:00

Client ID: TRIP BLANK Date Received: 12/16/16

Sample Location: SPENCERPORT. Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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	74		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	92		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/16 12:06
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,06-07 Batch: WG963722-5					
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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1641070
Report Date: 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/16 12:06
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,06-07 Batch: WG963722-5					
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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1641070
Report Date: 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/16 12:06
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04,06-07 Batch: WG963722-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/16 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG963746-12					
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: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/16 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG963746-12					
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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1641070
Report Date: 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/16 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,05 Batch: WG963746-12					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1641070
Report Date: 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/16 11:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG963746-5					
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: 500 SOUTH UNION STREET **Lab Number:** L1641070

Project Number: T0188-013-001 **Report Date:** 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/16 11:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG963746-5					
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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1641070
Report Date: 12/23/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/21/16 11:23
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG963746-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06-07 Batch: WG963722-3 WG963722-4								
Methylene chloride	100		97		70-130	3		20
1,1-Dichloroethane	96		89		70-130	8		20
Chloroform	92		87		70-130	6		20
2-Chloroethylvinyl ether	**23**	Q	**32**	Q	70-130	**33**	Q	20
Carbon tetrachloride	89		82		63-132	8		20
1,2-Dichloropropane	92		93		70-130	1		20
Dibromochloromethane	100		96		63-130	4		20
1,1,2-Trichloroethane	95		97		70-130	2		20
Tetrachloroethene	100		93		70-130	7		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	95		81		62-150	16		20
1,2-Dichloroethane	80		80		70-130	0		20
1,1,1-Trichloroethane	88		80		67-130	10		20
Bromodichloromethane	92		89		67-130	3		20
trans-1,3-Dichloropropene	86		87		70-130	1		20
cis-1,3-Dichloropropene	94		91		70-130	3		20
1,1-Dichloropropene	90		85		70-130	6		20
Bromoform	100		110		54-136	10		20
1,1,2,2-Tetrachloroethane	94		99		67-130	5		20
Benzene	100		95		70-130	5		20
Toluene	100		97		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06-07 Batch: WG963722-3 WG963722-4								
Ethylbenzene	96		93		70-130	3		20
Chloromethane	130		110		64-130	17		20
Bromomethane	130		120		39-139	8		20
Vinyl chloride	110		99		55-140	11		20
Chloroethane	120		110		55-138	9		20
1,1-Dichloroethene	110		96		61-145	14		20
trans-1,2-Dichloroethene	110		96		70-130	14		20
Trichloroethene	97		91		70-130	6		20
1,2-Dichlorobenzene	98		100		70-130	2		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	91		88		63-130	3		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	105		100		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	95		94		70-130	1		20
1,2,3-Trichloropropane	87		89		64-130	2		20
Acrylonitrile	97		96		70-130	1		20
Isopropyl Ether	98		95		70-130	3		20
tert-Butyl Alcohol	92		98		70-130	6		20
Styrene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06-07 Batch: WG963722-3 WG963722-4								
Dichlorodifluoromethane	94		83		36-147	12		20
Acetone	99		86		58-148	14		20
Carbon disulfide	100		87		51-130	14		20
2-Butanone	91		95		63-138	4		20
Vinyl acetate	83		85		70-130	2		20
4-Methyl-2-pentanone	88		92		59-130	4		20
2-Hexanone	80		84		57-130	5		20
Acrolein	71		79		40-160	11		20
Bromochloromethane	120		110		70-130	9		20
2,2-Dichloropropane	87		76		63-133	13		20
1,2-Dibromoethane	95		97		70-130	2		20
1,3-Dichloropropane	91		92		70-130	1		20
1,1,1,2-Tetrachloroethane	99		96		64-130	3		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	96		91		53-136	5		20
sec-Butylbenzene	99		93		70-130	6		20
tert-Butylbenzene	98		95		70-130	3		20
o-Chlorotoluene	97		95		70-130	2		20
p-Chlorotoluene	96		96		70-130	0		20
1,2-Dibromo-3-chloropropane	85		85		41-144	0		20
Hexachlorobutadiene	86		80		63-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06-07 Batch: WG963722-3 WG963722-4								
Isopropylbenzene	100		97		70-130	3		20
p-Isopropyltoluene	100		95		70-130	5		20
Naphthalene	78		85		70-130	9		20
n-Propylbenzene	99		95		69-130	4		20
1,2,3-Trichlorobenzene	80		83		70-130	4		20
1,2,4-Trichlorobenzene	86		89		70-130	3		20
1,3,5-Trimethylbenzene	100		98		64-130	2		20
1,2,4-Trimethylbenzene	99		96		70-130	3		20
Methyl Acetate	110		100		70-130	10		20
Ethyl Acetate	91		94		70-130	3		20
Cyclohexane	97		87		70-130	11		20
Ethyl-Tert-Butyl-Ether	90		87		70-130	3		20
Tertiary-Amyl Methyl Ether	88		86		66-130	2		20
1,4-Dioxane	104		112		56-162	7		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		92		70-130	8		20
p-Diethylbenzene	98		96		70-130	2		20
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Tetrahydrofuran	89		91		58-130	2		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	79		78		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04,06-07 Batch: WG963722-3 WG963722-4								
Iodomethane	**68**	Q	80		70-130	16		20
Methyl cyclohexane	100		91		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	80		80		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	93		95		70-130
Dibromofluoromethane	98		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG963746-10 WG963746-11								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
2-Chloroethylvinyl ether	**62**	Q	**61**	Q	70-130	2		20
Carbon tetrachloride	96		97		63-132	1		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		96		63-130	4		20
1,1,2-Trichloroethane	110		100		70-130	10		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	120		120		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	85		83		70-130	2		20
cis-1,3-Dichloropropene	94		90		70-130	4		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	78		73		54-136	7		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	100		110		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG963746-10 WG963746-11								
Ethylbenzene	110		120		70-130	9		20
Chloromethane	94		92		64-130	2		20
Bromomethane	110		120		39-139	9		20
Vinyl chloride	110		110		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	100		99		70-130	1		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	100		98		64-130	2		20
Acrylonitrile	120		110		70-130	9		20
Isopropyl Ether	130		130		70-130	0		20
tert-Butyl Alcohol	72		74		70-130	3		20
Styrene	115		115		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG963746-10 WG963746-11								
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	**160**	Q	110		58-148	**37**	Q	20
Carbon disulfide	98		97		51-130	1		20
2-Butanone	120		110		63-138	9		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	95		89		59-130	7		20
2-Hexanone	100		100		57-130	0		20
Acrolein	85		80		40-160	6		20
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	77		77		63-133	0		20
1,2-Dibromoethane	100		98		70-130	2		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	98		96		64-130	2		20
Bromobenzene	99		96		70-130	3		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		100		70-130	10		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	71		68		41-144	4		20
Hexachlorobutadiene	94		89		63-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG963746-10 WG963746-11								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	89		88		70-130	1		20
n-Propylbenzene	120		110		69-130	9		20
1,2,3-Trichlorobenzene	74		75		70-130	1		20
1,2,4-Trichlorobenzene	83		84		70-130	1		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	120		120		70-130	0		20
Ethyl Acetate	**140**	Q	**140**	Q	70-130	0		20
Cyclohexane	110		110		70-130	0		20
Ethyl-Tert-Butyl-Ether	99		99		70-130	0		20
Tertiary-Amyl Methyl Ether	93		91		66-130	2		20
1,4-Dioxane	90		88		56-162	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		110		70-130	10		20
p-Diethylbenzene	120		120		70-130	0		20
p-Ethyltoluene	120		110		70-130	9		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Tetrahydrofuran	130		120		58-130	8		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	90		86		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 Batch: WG963746-10 WG963746-11								
Iodomethane	**56**	Q	**62**	Q	70-130	10		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		117		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	102		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG963746-3 WG963746-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
2-Chloroethylvinyl ether	**64**	Q	**60**	Q	70-130	6		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		99		63-130	1		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	87		83		70-130	5		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	77		75		54-136	3		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG963746-3 WG963746-4								
Ethylbenzene	120		110		70-130	9		20
Chloromethane	99		95		64-130	4		20
Bromomethane	120		110		39-139	9		20
Vinyl chloride	120		120		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		110		61-145	10		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	100		98		64-130	2		20
Acrylonitrile	110		120		70-130	9		20
Isopropyl Ether	130		130		70-130	0		20
tert-Butyl Alcohol	70		78		70-130	11		20
Styrene	115		115		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG963746-3 WG963746-4								
Dichlorodifluoromethane	120		130		36-147	8		20
Acetone	**150**	Q	120		58-148	**22**	Q	20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	120		110		63-138	9		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	95		95		59-130	0		20
2-Hexanone	110		110		57-130	0		20
Acrolein	82		80		40-160	2		20
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	78		78		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	99		97		64-130	2		20
Bromobenzene	100		98		70-130	2		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	73		73		41-144	0		20
Hexachlorobutadiene	94		95		63-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG963746-3 WG963746-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	88		92		70-130	4		20
n-Propylbenzene	120		110		69-130	9		20
1,2,3-Trichlorobenzene	76		79		70-130	4		20
1,2,4-Trichlorobenzene	84		85		70-130	1		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	120		120		70-130	0		20
Ethyl Acetate	**140**	Q	**140**	Q	70-130	0		20
Cyclohexane	120		120		70-130	0		20
Ethyl-Tert-Butyl-Ether	99		100		70-130	1		20
Tertiary-Amyl Methyl Ether	93		93		66-130	0		20
1,4-Dioxane	100		108		56-162	8		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		120		70-130	9		20
p-Diethylbenzene	120		120		70-130	0		20
p-Ethyltoluene	120		120		70-130	0		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Tetrahydrofuran	120		120		58-130	0		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	88		86		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG963746-3 WG963746-4								
Iodomethane	**56**	Q	**58**	Q	70-130	4		20
Methyl cyclohexane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		119		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	101		102		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 QC Batch ID: WG963746-6 WG963746-7 QC Sample: L1641070-05 Client ID: MW-4D												
Methylene chloride	ND	10	12	120		12	120		70-130	0		20
1,1-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
Chloroform	ND	10	12	120		13	130		70-130	8		20
Carbon tetrachloride	ND	10	9.0	90		10	100		63-132	11		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	9.9	99		10	100		63-130	1		20
1,1,2-Trichloroethane	ND	10	11	110		11	110		70-130	0		20
Tetrachloroethene	ND	10	9.8	98		11	110		70-130	12		20
Chlorobenzene	ND	10	10	100		11	110		75-130	10		20
Trichlorofluoromethane	ND	10	12	120		13	130		62-150	8		20
1,2-Dichloroethane	ND	10	13	130		13	130		70-130	0		20
1,1,1-Trichloroethane	ND	10	11	110		12	120		67-130	9		20
Bromodichloromethane	ND	10	11	110		12	120		67-130	9		20
trans-1,3-Dichloropropene	ND	10	8.2	82		8.6	86		70-130	5		20
cis-1,3-Dichloropropene	ND	10	9.2	92		9.7	97		70-130	5		20
1,1-Dichloropropene	ND	10	11	110		12	120		70-130	9		20
Bromoform	ND	10	7.2	72		7.4	74		54-136	3		20
1,1,2,2-Tetrachloroethane	ND	10	11	110		11	110		67-130	0		20
Benzene	ND	10	12	120		12	120		70-130	0		20
Toluene	ND	10	11	110		12	120		70-130	9		20
Ethylbenzene	ND	10	11	110		12	120		70-130	9		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 QC Batch ID: WG963746-6 WG963746-7 QC Sample: L1641070-05 Client ID: MW-4D												
Chloromethane	0.99J	10	10	100		11	110		64-130	10		20
Bromomethane	ND	10	8.3	83		12	120		39-139	**36**	Q	20
Vinyl chloride	500E	10	480E	**0**	Q	480E	**0**	Q	55-140	0		20
Chloroethane	ND	10	12	120		12	120		55-138	0		20
1,1-Dichloroethene	ND	10	11	110		12	120		61-145	9		20
trans-1,2-Dichloroethene	34	10	44	100		45	110		70-130	2		20
Trichloroethene	0.60	10	12	114		12	114		70-130	0		20
1,2-Dichlorobenzene	ND	10	10	100		11	110		70-130	10		20
1,3-Dichlorobenzene	ND	10	9.9	99		11	110		70-130	11		20
1,4-Dichlorobenzene	ND	10	10	100		11	110		70-130	10		20
Methyl tert butyl ether	ND	10	11	110		11	110		63-130	0		20
p/m-Xylene	ND	20	22	110		24	120		70-130	9		20
o-Xylene	ND	20	22	110		24	120		70-130	9		20
cis-1,2-Dichloroethene	ND	10	12	120		13	130		70-130	8		20
Dibromomethane	ND	10	12	120		12	120		70-130	0		20
1,2,3-Trichloropropane	ND	10	11	110		11	110		64-130	0		20
Acrylonitrile	ND	10	13	130		13	130		70-130	0		20
Isopropyl Ether	ND	10	14	**140**	Q	14	**140**	Q	70-130	0		20
tert-Butyl Alcohol	ND	50	41	82		44	88		70-130	7		20
Styrene	ND	20	23	115		24	120		70-130	4		20
Dichlorodifluoromethane	ND	10	12	120		14	140		36-147	15		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 QC Batch ID: WG963746-6 WG963746-7 QC Sample: L1641070-05 Client ID: MW-4D												
Acetone	9.5	10	23	135		23	135		58-148	0		20
Carbon disulfide	ND	10	12	120		12	120		51-130	0		20
2-Butanone	ND	10	14	**140**	Q	14	**140**	Q	63-138	0		20
Vinyl acetate	ND	10	12	120		12	120		70-130	0		20
4-Methyl-2-pentanone	ND	10	11	110		9.8	98		59-130	12		20
2-Hexanone	ND	10	13	130		12	120		57-130	8		20
Acrolein	ND	10	8.7	87		8.5	85		40-160	2		20
Bromochloromethane	ND	10	12	120		12	120		70-130	0		20
2,2-Dichloropropane	ND	10	7.0	70		7.7	77		63-133	10		20
1,2-Dibromoethane	ND	10	11	110		11	110		70-130	0		20
1,3-Dichloropropane	ND	10	12	120		12	120		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	9.6	96		10	100		64-130	4		20
Bromobenzene	ND	10	10	100		10	100		70-130	0		20
n-Butylbenzene	ND	10	10	100		12	120		53-136	18		20
sec-Butylbenzene	ND	10	9.8	98		11	110		70-130	12		20
tert-Butylbenzene	ND	10	9.7	97		11	110		70-130	13		20
o-Chlorotoluene	ND	10	9.5	95		11	110		70-130	15		20
p-Chlorotoluene	ND	10	10	100		11	110		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	6.9	69		7.2	72		41-144	4		20
Hexachlorobutadiene	ND	10	7.5	75		9.4	94		63-130	**22**	Q	20
Isopropylbenzene	ND	10	10	100		12	120		70-130	18		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 QC Batch ID: WG963746-6 WG963746-7 QC Sample: L1641070-05 Client ID: MW-4D												
p-Isopropyltoluene	ND	10	9.6	96		11	110		70-130	14		20
Naphthalene	ND	10	10	100		10	100		70-130	0		20
n-Propylbenzene	ND	10	10	100		12	120		69-130	18		20
1,2,3-Trichlorobenzene	ND	10	8.1	81		9.1	91		70-130	12		20
1,2,4-Trichlorobenzene	ND	10	8.2	82		9.2	92		70-130	11		20
1,3,5-Trimethylbenzene	ND	10	10	100		11	110		64-130	10		20
1,2,4-Trimethylbenzene	ND	10	10	100		11	110		70-130	10		20
Methyl Acetate	ND	10	14	**140**	Q	13	130		70-130	7		20
Ethyl Acetate	2.6J	10	18	**180**	Q	18	**180**	Q	70-130	0		20
Cyclohexane	ND	10	10	100		12	120		70-130	18		20
Ethyl-Tert-Butyl-Ether	ND	10	11	110		11	110		70-130	0		20
Tertiary-Amyl Methyl Ether	ND	10	10	100		10	100		66-130	0		20
1,4-Dioxane	ND	500	480	96		550	110		56-162	14		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	10	100		12	120		70-130	18		20
p-Diethylbenzene	ND	10	10	100		12	120		70-130	18		20
p-Ethyltoluene	ND	10	11	110		12	120		70-130	9		20
1,2,4,5-Tetramethylbenzene	ND	10	10	100		12	120		70-130	18		20
Tetrahydrofuran	ND	10	14	**140**	Q	13	130		58-130	7		20
Ethyl ether	ND	10	12	120		13	130		59-134	8		20
trans-1,4-Dichloro-2-butene	ND	10	8.2	82		8.7	87		70-130	6		20
Iodomethane	ND	10	7.1	71		8.0	80		70-130	12		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05 QC Batch ID: WG963746-6 WG963746-7 QC Sample: L1641070-05 Client ID: MW-4D												
Methyl cyclohexane	ND	10	9.6J	96		11	110		70-130	14		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		118		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	103		102		70-130
Toluene-d8	99		101		70-130

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1641070
Report Date: 12/23/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1641070-01A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-01B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-01C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-02A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-02B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-02C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-03A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-03B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-03C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-04A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-04B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-04C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05A1	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05A2	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05B1	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05B2	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05C1	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-05C2	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-06A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-06B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-06C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-07A	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-07B	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-07C	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-07D	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1641070-07E	Vial HCl preserved	A	N/A	2.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1641070
Project Number:	T0188-013-001	**Report Date:**	12/23/16

GLOSSARY

Acronyms

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).
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.
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.
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.
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

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

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.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1641070
Project Number:	T0188-013-001	**Report Date:**	12/23/16

Data Qualifiers

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.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

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.

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).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1641070
Project Number:	T0188-013-001	**Report Date:**	12/23/16

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.

Certification Information

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

Westborough Facility
EPA 624: 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 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, SM4500Cl-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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, 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

ALPHA ANALYTICAL

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: 12/17/16

ALPHA Job #: L1641070

Client Information

Client: Benchmark Environmental
Address: 2558 Hamburg Turnpike,Ste300
Buffalo, NY 14218
Phone: 716-856-0599
Fax:
Email: jrobinson@benchmarkturnkey.com

Project Information

Project Name: 500 South Union Street
Project Location: Spencerport.
Project # T0188-013-001.
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

NYTCL+CP-51-VOC

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL+CP-51-VOC	Sample Specific Comments	Total Bottles
L1641070 -01	MW-1D	12-15-16	10:25	Water	CCB	X		3
02	MW-2D	"	13:05	Water	"	X		3
03	MW-2D DUP	"	13:05	Water	"	X		3
04	MW-3	"	12:30	Water	"	X		3
05	MW-4D	"	12:45	Water	"	X		3
05	MW-4D MS	"	12:45	Water	"	X	- Insufficient volume only 2 vials	~~3~~ 2
05	MW-4D MSD	"	13:45	Water	"	X		3
06	MW-5D	"	14:45.	Water	"	X		3
07	Trip Blank	12-15-16	9:00	Water	CCB	X		2

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
	12-15-16 16:45		12-16-16 1130
	12-16-16 1245		12/17/16 00:25

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.

Form No: 01-25 (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1631155
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	500 SOUTH UNION STREET
Project Number:	T0188-013-001
Report Date:	10/07/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1631155-01	MW-1D	WATER	SPENCERPORT NY	09/29/16 09:40	09/30/16
L1631155-02	PZ-5	WATER	SPENCERPORT NY	09/29/16 10:10	09/30/16
L1631155-03	MW-2D	WATER	SPENCERPORT NY	09/29/16 10:30	09/30/16
L1631155-04	MW-3	WATER	SPENCERPORT NY	09/29/16 11:10	09/30/16
L1631155-05	PZ-8	WATER	SPENCERPORT NY	09/29/16 13:15	09/30/16
L1631155-06	MW-4D	WATER	SPENCERPORT NY	09/29/16 11:40	09/30/16
L1631155-07	MW-106	WATER	SPENCERPORT NY	09/29/16 12:50	09/30/16
L1631155-08	MW-5D	WATER	SPENCERPORT NY	09/29/16 12:30	09/30/16
L1631155-09	BLIND DUP	WATER	SPENCERPORT NY	09/29/16 08:00	09/30/16
L1631155-10	TRIP BLANK	WATER	SPENCERPORT NY	09/29/16 08:00	09/30/16

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155
Project Number: T0188-013-001 **Report Date:** 10/07/16

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1631155
Project Number:	T0188-013-001	**Report Date:**	10/07/16

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.

Sample Receipt

A Trip Blank was received in the laboratory, but not listed on the Chain of Custody, and was not analyzed.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 10/07/16

ORGANICS

VOLATILES

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-01
Client ID: MW-1D
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/05/16 23:13
Analyst: PD

Date Collected: 09/29/16 09:40
Date Received: 09/30/16
Field Prep: Not Specified

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	0.24	J	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	0.42	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-01 Date Collected: 09/29/16 09:40

Client ID: MW-1D Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	7.2		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	13		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	3.6	J	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
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	93		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-02 D2
Client ID: PZ-5
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/16 21:11
Analyst: PK

Date Collected: 09/29/16 10:10
Date Received: 09/30/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Acetone	2100		ug/l	250	73.	50
2-Butanone	1700		ug/l	250	97.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	93		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-02 D
Client ID: PZ-5
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/05/16 23:41
Analyst: PD

Date Collected: 09/29/16 10:10
Date Received: 09/30/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	36		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	0.84	J	ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	38		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Trichloroethene	2.5		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-02 D Date Collected: 09/29/16 10:10

Client ID: PZ-5 Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	390		ug/l	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	2100	E	ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	1800	E	ug/l	25	9.7	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
Methyl Acetate	ND		ug/l	10	1.2	5
Cyclohexane	ND		ug/l	50	1.4	5
1,4-Dioxane	ND		ug/l	1200	300	5
Freon-113	ND		ug/l	12	3.5	5
Methyl cyclohexane	ND		ug/l	50	2.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	93		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-03
Client ID: MW-2D
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/16 00:09
Analyst: PD

Date Collected: 09/29/16 10:30
Date Received: 09/30/16
Field Prep: Not Specified

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	20		ug/l	1.0	0.07	1
Chloroethane	3.4		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	3.6		ug/l	2.5	0.70	1
Trichloroethene	1.8		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-03 Date Collected: 09/29/16 10:30

Client ID: MW-2D Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	5.1		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	8.8		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	7.2		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
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	91		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-04 D
Client ID: MW-3
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/16 00:37
Analyst: PD

Date Collected: 09/29/16 11:10
Date Received: 09/30/16
Field Prep: Not Specified

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	ND		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	25		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	15		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-04 D Date Collected: 09/29/16 11:10

Client ID: MW-3 Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	770		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	82	J	ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	100		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
1,4-Dioxane	ND		ug/l	5000	1200	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	93		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-05
Client ID: PZ-8
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/05/16 21:21
Analyst: PD

Date Collected: 09/29/16 13:15
Date Received: 09/30/16
Field Prep: Not Specified

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	0.70		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	0.45	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-05 Date Collected: 09/29/16 13:15

Client ID: PZ-8 Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	9.2		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
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-06 D
Client ID: MW-4D
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/05/16 22:06
Analyst: PD

Date Collected: 09/29/16 11:40
Date Received: 09/30/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	ND		ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	400		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	26		ug/l	12	3.5	5
Trichloroethene	ND		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-06 D Date Collected: 09/29/16 11:40

Client ID: MW-4D Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dioxane	ND		ug/l	1200	300	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-07
Client ID: MW-106
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/05/16 21:43
Analyst: PD

Date Collected: 09/29/16 12:50
Date Received: 09/30/16
Field Prep: Not Specified

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	110		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	0.39	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-07 Date Collected: 09/29/16 12:50

Client ID: MW-106 Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	1.4	J	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
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-08 D
Client ID: MW-5D
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/16 13:07
Analyst: PD

Date Collected: 09/29/16 12:30
Date Received: 09/30/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	1.3		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	0.64	J	ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	1.4	J	ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Trichloroethene	ND		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-08 D Date Collected: 09/29/16 12:30
Client ID: MW-5D Date Received: 09/30/16
Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	50		ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	54		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	98		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	230		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	95		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-09
Client ID: BLIND DUP
Sample Location: SPENCERPORT NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/16 13:35
Analyst: PD

Date Collected: 09/29/16 08:00
Date Received: 09/30/16
Field Prep: Not Specified

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	21		ug/l	1.0	0.07	1
Chloroethane	4.1		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	4.0		ug/l	2.5	0.70	1
Trichloroethene	2.1		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

SAMPLE RESULTS

Lab ID: L1631155-09 Date Collected: 09/29/16 08:00

Client ID: BLIND DUP Date Received: 09/30/16

Sample Location: SPENCERPORT NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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	5.6		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	4.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	5.6		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	2.0	J	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
1,4-Dioxane	ND		ug/l	250	61.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	101		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/16 11:20
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG939401-10					
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: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/16 11:20
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG939401-10					
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: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/16 11:20
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG939401-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	92		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/16 15:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG939401-5					
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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1631155
Report Date: 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/16 15:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG939401-5					
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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1631155
Report Date: 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/16 15:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG939401-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/16 19:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG939423-5					
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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1631155
Report Date: 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/16 19:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG939423-5					
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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1631155
Report Date: 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/05/16 19:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-07 Batch: WG939423-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: 500 SOUTH UNION STREET **Lab Number:** L1631155

Project Number: T0188-013-001 **Report Date:** 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/16 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG939573-5					
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	1.0	J	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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1631155
Report Date: 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/16 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG939573-5					
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: 500 SOUTH UNION STREET
Project Number: T0188-013-001
Lab Number: L1631155
Report Date: 10/07/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/06/16 10:57
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG939573-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET

Project Number: T0188-013-001

Lab Number: L1631155

Report Date: 10/07/16

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 Batch: WG939401-3 WG939401-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	**38**	Q	**31**	Q	70-130	20		20
Carbon tetrachloride	91		89		63-132	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	92		94		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	96		96		70-130	0		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	98		93		62-150	5		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	88		88		70-130	0		20
cis-1,3-Dichloropropene	98		98		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	85		86		54-136	1		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	100		99		70-130	1		20
Toluene	97		99		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET

Project Number: T0188-013-001

Lab Number: L1631155

Report Date: 10/07/16

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 Batch: WG939401-3 WG939401-4								
Ethylbenzene	98		97		70-130	1		20
Chloromethane	77		75		64-130	3		20
Bromomethane	**31**	Q	**35**	Q	39-139	12		20
Vinyl chloride	95		93		55-140	2		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	100		99		61-145	1		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	96		96		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		99		70-130	1		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	95		93		70-130	2		20
Isopropyl Ether	100		100		70-130	0		20
tert-Butyl Alcohol	120		122		70-130	2		20
Styrene	90		90		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

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 Batch: WG939401-3 WG939401-4								
Dichlorodifluoromethane	95		92		36-147	3		20
Acetone	130		130		58-148	0		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	120		110		63-138	9		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	88		92		59-130	4		20
2-Hexanone	99		99		57-130	0		20
Acrolein	90		87		40-160	3		20
Bromochloromethane	99		99		70-130	0		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	91		94		64-130	3		20
Bromobenzene	99		98		70-130	1		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	100		99		70-130	1		20
tert-Butylbenzene	100		99		70-130	1		20
o-Chlorotoluene	100		110		70-130	10		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	90		100		41-144	11		20
Hexachlorobutadiene	110		110		63-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET

Project Number: T0188-013-001

Lab Number: L1631155

Report Date: 10/07/16

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 Batch: WG939401-3 WG939401-4								
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	120		120		70-130	0		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	120		130		70-130	8		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Methyl Acetate	110		110		70-130	0		20
Ethyl Acetate	98		100		70-130	2		20
Cyclohexane	89		87		70-130	2		20
Ethyl-Tert-Butyl-Ether	99		97		70-130	2		20
Tertiary-Amyl Methyl Ether	94		93		66-130	1		20
1,4-Dioxane	120		134		56-162	11		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	91		89		70-130	2		20
p-Diethylbenzene	110		100		70-130	10		20
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Tetrahydrofuran	110		110		58-130	0		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	**38**	Q	**36**	Q	70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

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 Batch: WG939401-3 WG939401-4								
Iodomethane	**42**	Q	**42**	Q	70-130	0		20
Methyl cyclohexane	87		85		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	96		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG939401-8 WG939401-9								
Methylene chloride	94		97		70-130	3		20
1,1-Dichloroethane	92		94		70-130	2		20
Chloroform	89		93		70-130	4		20
Carbon tetrachloride	85		88		63-132	3		20
1,2-Dichloropropane	93		96		70-130	3		20
Dibromochloromethane	86		88		63-130	2		20
1,1,2-Trichloroethane	89		93		70-130	4		20
Tetrachloroethene	88		89		70-130	1		20
Chlorobenzene	90		91		75-130	1		20
Trichlorofluoromethane	88		88		62-150	0		20
1,2-Dichloroethane	88		92		70-130	4		20
1,1,1-Trichloroethane	89		92		67-130	3		20
Bromodichloromethane	90		93		67-130	3		20
trans-1,3-Dichloropropene	84		85		70-130	1		20
cis-1,3-Dichloropropene	91		91		70-130	0		20
1,1-Dichloropropene	92		93		70-130	1		20
Bromoform	80		86		54-136	7		20
1,1,2,2-Tetrachloroethane	92		98		67-130	6		20
Benzene	91		94		70-130	3		20
Toluene	92		93		70-130	1		20
Ethylbenzene	90		92		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET

Project Number: T0188-013-001

Lab Number: L1631155

Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG939401-8 WG939401-9								
Chloromethane	75		74		64-130	1		20
Bromomethane	51		49		39-139	4		20
Vinyl chloride	86		86		55-140	0		20
Chloroethane	91		92		55-138	1		20
1,1-Dichloroethene	88		93		61-145	6		20
trans-1,2-Dichloroethene	92		95		70-130	3		20
Trichloroethene	87		88		70-130	1		20
1,2-Dichlorobenzene	90		94		70-130	4		20
1,3-Dichlorobenzene	92		95		70-130	3		20
1,4-Dichlorobenzene	90		93		70-130	3		20
Methyl tert butyl ether	84		80		63-130	5		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	85		85		70-130	0		20
cis-1,2-Dichloroethene	88		92		70-130	4		20
Dibromomethane	88		95		70-130	8		20
1,2,3-Trichloropropane	93		94		64-130	1		20
Acrylonitrile	84		87		70-130	4		20
Isopropyl Ether	90		94		70-130	4		20
tert-Butyl Alcohol	96		112		70-130	15		20
Styrene	80		85		70-130	6		20
Dichlorodifluoromethane	86		87		36-147	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET

Project Number: T0188-013-001

Lab Number: L1631155

Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG939401-8 WG939401-9								
Acetone	120		100		58-148	18		20
Carbon disulfide	88		87		51-130	1		20
2-Butanone	100		94		63-138	6		20
Vinyl acetate	90		90		70-130	0		20
4-Methyl-2-pentanone	80		88		59-130	10		20
2-Hexanone	85		89		57-130	5		20
Acrolein	94		88		40-160	7		20
Bromochloromethane	89		91		70-130	2		20
2,2-Dichloropropane	92		94		63-133	2		20
1,2-Dibromoethane	91		97		70-130	6		20
1,3-Dichloropropane	90		94		70-130	4		20
1,1,1,2-Tetrachloroethane	88		89		64-130	1		20
Bromobenzene	92		94		70-130	2		20
n-Butylbenzene	99		100		53-136	1		20
sec-Butylbenzene	95		96		70-130	1		20
tert-Butylbenzene	95		97		70-130	2		20
o-Chlorotoluene	100		99		70-130	1		20
p-Chlorotoluene	96		99		70-130	3		20
1,2-Dibromo-3-chloropropane	79		90		41-144	13		20
Hexachlorobutadiene	100		110		63-130	10		20
Isopropylbenzene	96		97		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG939401-8 WG939401-9								
p-Isopropyltoluene	94		96		70-130	2		20
Naphthalene	83		100		70-130	19		20
n-Propylbenzene	97		98		69-130	1		20
1,2,3-Trichlorobenzene	81		110		70-130	**30**	Q	20
1,2,4-Trichlorobenzene	85		100		70-130	16		20
1,3,5-Trimethylbenzene	94		96		64-130	2		20
1,2,4-Trimethylbenzene	96		97		70-130	1		20
Methyl Acetate	88		91		70-130	3		20
Ethyl Acetate	90		94		70-130	4		20
Cyclohexane	86		88		70-130	2		20
Ethyl-Tert-Butyl-Ether	78		71		70-130	9		20
Tertiary-Amyl Methyl Ether	74		**65**	Q	66-130	13		20
1,4-Dioxane	102		128		56-162	**23**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	85		87		70-130	2		20
p-Diethylbenzene	97		100		70-130	3		20
p-Ethyltoluene	99		99		70-130	0		20
1,2,4,5-Tetramethylbenzene	95		98		70-130	3		20
Tetrahydrofuran	100		98		58-130	2		20
Ethyl ether	92		96		59-134	4		20
trans-1,4-Dichloro-2-butene	**58**	Q	**49**	Q	70-130	17		20
Iodomethane	**36**	Q	**38**	Q	70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG939401-8 WG939401-9								
Methyl cyclohexane	87		87		70-130	0		20
Ethyl Alcohol	91		98		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		96		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	94		93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET

Project Number: T0188-013-001

Lab Number: L1631155

Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG939423-3 WG939423-4								
Methylene chloride	97		93		70-130	4		20
1,1-Dichloroethane	100		97		70-130	3		20
Chloroform	98		97		70-130	1		20
2-Chloroethylvinyl ether	**17**	Q	**18**	Q	70-130	6		20
Carbon tetrachloride	92		87		63-132	6		20
1,2-Dichloropropane	98		96		70-130	2		20
Dibromochloromethane	96		95		63-130	1		20
1,1,2-Trichloroethane	98		96		70-130	2		20
Tetrachloroethene	100		95		70-130	5		20
Chlorobenzene	98		95		75-130	3		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	98		96		70-130	2		20
1,1,1-Trichloroethane	100		97		67-130	3		20
Bromodichloromethane	97		94		67-130	3		20
trans-1,3-Dichloropropene	94		92		70-130	2		20
cis-1,3-Dichloropropene	94		90		70-130	4		20
1,1-Dichloropropene	100		96		70-130	4		20
Bromoform	94		93		54-136	1		20
1,1,2,2-Tetrachloroethane	98		97		67-130	1		20
Benzene	100		98		70-130	2		20
Toluene	100		96		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG939423-3 WG939423-4								
Ethylbenzene	99		93		70-130	6		20
Chloromethane	110		110		64-130	0		20
Bromomethane	54		54		39-139	0		20
Vinyl chloride	110		100		55-140	10		20
Chloroethane	**140**	Q	110		55-138	**24**	Q	20
1,1-Dichloroethene	100		97		61-145	3		20
trans-1,2-Dichloroethene	99		94		70-130	5		20
Trichloroethene	100		95		70-130	5		20
1,2-Dichlorobenzene	97		94		70-130	3		20
1,3-Dichlorobenzene	98		93		70-130	5		20
1,4-Dichlorobenzene	96		92		70-130	4		20
Methyl tert butyl ether	97		96		63-130	1		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	98		94		70-130	4		20
Dibromomethane	94		92		70-130	2		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	100		100		70-130	0		20
Isopropyl Ether	100		100		70-130	0		20
tert-Butyl Alcohol	98		94		70-130	4		20
Styrene	100		95		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG939423-3 WG939423-4								
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	98		98		58-148	0		20
Carbon disulfide	100		97		51-130	3		20
2-Butanone	99		96		63-138	3		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	76		76		59-130	0		20
2-Hexanone	78		77		57-130	1		20
Acrolein	93		93		40-160	0		20
Bromochloromethane	93		93		70-130	0		20
2,2-Dichloropropane	94		88		63-133	7		20
1,2-Dibromoethane	96		95		70-130	1		20
1,3-Dichloropropane	97		96		70-130	1		20
1,1,1,2-Tetrachloroethane	98		96		64-130	2		20
Bromobenzene	96		92		70-130	4		20
n-Butylbenzene	100		97		53-136	3		20
sec-Butylbenzene	100		96		70-130	4		20
tert-Butylbenzene	100		94		70-130	6		20
o-Chlorotoluene	91		86		70-130	6		20
p-Chlorotoluene	100		96		70-130	4		20
1,2-Dibromo-3-chloropropane	94		91		41-144	3		20
Hexachlorobutadiene	110		96		63-130	14		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG939423-3 WG939423-4								
Isopropylbenzene	100		96		70-130	4		20
p-Isopropyltoluene	100		95		70-130	5		20
Naphthalene	130		110		70-130	17		20
n-Propylbenzene	100		95		69-130	5		20
1,2,3-Trichlorobenzene	120		120		70-130	0		20
1,2,4-Trichlorobenzene	100		98		70-130	2		20
1,3,5-Trimethylbenzene	100		95		64-130	5		20
1,2,4-Trimethylbenzene	100		97		70-130	3		20
Methyl Acetate	97		96		70-130	1		20
Ethyl Acetate	96		94		70-130	2		20
Cyclohexane	110		98		70-130	12		20
Ethyl-Tert-Butyl-Ether	97		96		70-130	1		20
Tertiary-Amyl Methyl Ether	92		92		66-130	0		20
1,4-Dioxane	102		90		56-162	13		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		97		70-130	3		20
p-Diethylbenzene	100		96		70-130	4		20
p-Ethyltoluene	100		98		70-130	2		20
1,2,4,5-Tetramethylbenzene	92		87		70-130	6		20
Tetrahydrofuran	110		110		58-130	0		20
Ethyl ether	100		99		59-134	1		20
trans-1,4-Dichloro-2-butene	**64**	Q	**62**	Q	70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 Batch: WG939423-3 WG939423-4								
Iodomethane	79		75		70-130	5		20
Methyl cyclohexane	100		93		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	103		101		70-130
Dibromofluoromethane	100		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG939573-3 WG939573-4								
Methylene chloride	99		95		70-130	4		20
1,1-Dichloroethane	98		98		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	98		98		63-132	0		20
1,2-Dichloropropane	93		93		70-130	0		20
Dibromochloromethane	97		100		63-130	3		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	98		95		70-130	3		20
Chlorobenzene	98		98		75-130	0		20
Trichlorofluoromethane	100		99		62-150	1		20
1,2-Dichloroethane	93		96		70-130	3		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	98		99		67-130	1		20
trans-1,3-Dichloropropene	92		97		70-130	5		20
cis-1,3-Dichloropropene	85		88		70-130	3		20
1,1-Dichloropropene	96		95		70-130	1		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	100		110		67-130	10		20
Benzene	98		99		70-130	1		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG939573-3 WG939573-4								
Chloromethane	96		98		64-130	2		20
Bromomethane	84		87		39-139	4		20
Vinyl chloride	87		86		55-140	1		20
Chloroethane	96		93		55-138	3		20
1,1-Dichloroethene	95		96		61-145	1		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		99		70-130	1		20
1,2-Dichlorobenzene	96		97		70-130	1		20
1,3-Dichlorobenzene	98		98		70-130	0		20
1,4-Dichlorobenzene	95		95		70-130	0		20
Methyl tert butyl ether	92		99		63-130	7		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	93		98		70-130	5		20
1,2,3-Trichloropropane	110		110		64-130	0		20
Acrylonitrile	88		98		70-130	11		20
Isopropyl Ether	97		100		70-130	3		20
tert-Butyl Alcohol	88		92		70-130	4		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	98		95		36-147	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG939573-3 WG939573-4								
Acetone	98		100		58-148	2		20
Carbon disulfide	94		93		51-130	1		20
2-Butanone	95		100		63-138	5		20
Vinyl acetate	98		100		70-130	2		20
4-Methyl-2-pentanone	74		73		59-130	1		20
2-Hexanone	69		75		57-130	8		20
Acrolein	74		74		40-160	0		20
Bromochloromethane	94		96		70-130	2		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	96		100		70-130	4		20
1,3-Dichloropropane	96		99		70-130	3		20
1,1,1,2-Tetrachloroethane	97		97		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	85		82		53-136	4		20
sec-Butylbenzene	96		92		70-130	4		20
tert-Butylbenzene	86		82		70-130	5		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	84		88		41-144	5		20
Hexachlorobutadiene	100		97		63-130	3		20
Isopropylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG939573-3 WG939573-4								
p-Isopropyltoluene	94		91		70-130	3		20
Naphthalene	**58**	Q	**59**	Q	70-130	2		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	**68**	Q	**68**	Q	70-130	0		20
1,2,4-Trichlorobenzene	**65**	Q	**66**	Q	70-130	2		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Methyl Acetate	98		100		70-130	2		20
Ethyl Acetate	87		96		70-130	10		20
Cyclohexane	92		91		70-130	1		20
Ethyl-Tert-Butyl-Ether	91		96		70-130	5		20
Tertiary-Amyl Methyl Ether	88		92		66-130	4		20
1,4-Dioxane	90		92		56-162	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	90		90		70-130	0		20
p-Diethylbenzene	84		81		70-130	4		20
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	86		84		70-130	2		20
Tetrahydrofuran	85		91		58-130	7		20
Ethyl ether	81		87		59-134	7		20
trans-1,4-Dichloro-2-butene	100		100		70-130	0		20
Iodomethane	**66**	Q	**66**	Q	70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG939573-3 WG939573-4								
Methyl cyclohexane	85		83		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		87		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	92		91		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG939423-6 WG939423-7 QC Sample: L1631155-06 Client ID: MW-4D												
Methylene chloride	ND	50	48	96		52	104		70-130	8		20
1,1-Dichloroethane	ND	50	51	102		55	110		70-130	8		20
Chloroform	ND	50	49	98		53	106		70-130	8		20
Carbon tetrachloride	ND	50	45	90		48	96		63-132	6		20
1,2-Dichloropropane	ND	50	48	96		52	104		70-130	8		20
Dibromochloromethane	ND	50	44	88		48	96		63-130	9		20
1,1,2-Trichloroethane	ND	50	47	94		51	102		70-130	8		20
Tetrachloroethene	ND	50	50	100		53	106		70-130	6		20
Chlorobenzene	ND	50	49	98		52	104		75-130	6		20
Trichlorofluoromethane	ND	50	58	116		61	122		62-150	5		20
1,2-Dichloroethane	ND	50	48	96		52	104		70-130	8		20
1,1,1-Trichloroethane	ND	50	50	100		55	110		67-130	10		20
Bromodichloromethane	ND	50	47	94		50	100		67-130	6		20
trans-1,3-Dichloropropene	ND	50	42	84		47	94		70-130	11		20
cis-1,3-Dichloropropene	ND	50	40	80		45	90		70-130	12		20
1,1-Dichloropropene	ND	50	51	102		55	110		70-130	8		20
Bromoform	ND	50	40	80		45	90		54-136	12		20
1,1,2,2-Tetrachloroethane	ND	50	45	90		50	100		67-130	11		20
Benzene	ND	50	52	104		55	110		70-130	6		20
Toluene	ND	50	50	100		53	106		70-130	6		20
Ethylbenzene	ND	50	49	98		53	106		70-130	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG939423-6 WG939423-7 QC Sample: L1631155-06 Client ID: MW-4D												
Chloromethane	ND	50	50	100		53	106		64-130	6		20
Bromomethane	ND	50	31	62		36	72		39-139	15		20
Vinyl chloride	400	50	440	80		470	140		55-140	7		20
Chloroethane	ND	50	52	104		55	110		55-138	6		20
1,1-Dichloroethene	ND	50	52	104		56	112		61-145	7		20
trans-1,2-Dichloroethene	26	50	76	100		82	112		70-130	8		20
Trichloroethene	ND	50	51	102		54	108		70-130	6		20
1,2-Dichlorobenzene	ND	50	46	92		50	100		70-130	8		20
1,3-Dichlorobenzene	ND	50	46	92		51	102		70-130	10		20
1,4-Dichlorobenzene	ND	50	46	92		50	100		70-130	8		20
Methyl tert butyl ether	ND	50	42	84		47	94		63-130	11		20
p/m-Xylene	ND	100	100	100		110	110		70-130	10		20
o-Xylene	ND	100	99	99		110	110		70-130	11		20
cis-1,2-Dichloroethene	ND	50	48	96		53	106		70-130	10		20
Dibromomethane	ND	50	45	90		49	98		70-130	9		20
1,2,3-Trichloropropane	ND	50	50	100		57	114		64-130	13		20
Acrylonitrile	ND	50	47	94		50	100		70-130	6		20
Styrene	ND	100	98	98		100	100		70-130	2		20
Dichlorodifluoromethane	ND	50	55	110		58	116		36-147	5		20
Acetone	ND	50	50	100		57	114		58-148	13		20
Carbon disulfide	ND	50	53	106		57	114		51-130	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG939423-6 WG939423-7 QC Sample: L1631155-06 Client ID: MW-4D												
2-Butanone	ND	50	46	92		51	102		63-138	10		20
Vinyl acetate	ND	50	49	98		54	108		70-130	10		20
4-Methyl-2-pentanone	ND	50	32	64		36	72		59-130	12		20
2-Hexanone	ND	50	30	60		35	70		57-130	15		20
Bromochloromethane	ND	50	46	92		50	100		70-130	8		20
2,2-Dichloropropane	ND	50	42	84		47	94		63-133	11		20
1,2-Dibromoethane	ND	50	44	88		48	96		70-130	9		20
1,3-Dichloropropane	ND	50	46	92		50	100		70-130	8		20
1,1,1,2-Tetrachloroethane	ND	50	47	94		51	102		64-130	8		20
Bromobenzene	ND	50	45	90		49	98		70-130	9		20
n-Butylbenzene	ND	50	52	104		56	112		53-136	7		20
sec-Butylbenzene	ND	50	51	102		55	110		70-130	8		20
tert-Butylbenzene	ND	50	49	98		53	106		70-130	8		20
o-Chlorotoluene	ND	50	44	88		48	96		70-130	9		20
p-Chlorotoluene	ND	50	49	98		54	108		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	50	39	78		46	92		41-144	16		20
Hexachlorobutadiene	ND	50	49	98		53	106		63-130	8		20
Isopropylbenzene	ND	50	49	98		54	108		70-130	10		20
p-Isopropyltoluene	ND	50	49	98		53	106		70-130	8		20
Naphthalene	ND	50	35	70		47	94		70-130	**29**	Q	20
n-Propylbenzene	ND	50	50	100		54	108		69-130	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-07 QC Batch ID: WG939423-6 WG939423-7 QC Sample: L1631155-06 Client ID: MW-4D												
1,2,3-Trichlorobenzene	ND	50	43	86		54	108		70-130	**23**	Q	20
1,2,4-Trichlorobenzene	ND	50	42	84		49	98		70-130	15		20
1,3,5-Trimethylbenzene	ND	50	50	100		53	106		64-130	6		20
1,2,4-Trimethylbenzene	ND	50	49	98		54	108		70-130	10		20
1,4-Dioxane	ND	2500	2000	80		2400	96		56-162	18		20
p-Diethylbenzene	ND	50	49	98		54	108		70-130	10		20
p-Ethyltoluene	ND	50	50	100		54	108		70-130	8		20
1,2,4,5-Tetramethylbenzene	ND	50	41	82		46	92		70-130	11		20
Ethyl ether	ND	50	47	94		52	104		59-134	10		20
trans-1,4-Dichloro-2-butene	ND	50	30	**60**	Q	33	**66**	Q	70-130	10		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
4-Bromofluorobenzene	96		99		70-130
Dibromofluoromethane	100		100		70-130
Toluene-d8	104		103		70-130

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1631155-01A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-01B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-01C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-02A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-02B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-03A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-03B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-03C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-04A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-04B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-04C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-05A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-05B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06A1	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06A2	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06B1	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06B2	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06C1	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-06C2	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-07A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-07B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-07C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-08A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-08B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-08C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-09A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 500 SOUTH UNION STREET
Project Number: T0188-013-001

Lab Number: L1631155
Report Date: 10/07/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1631155-09B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-09C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1631155-10A	Vial HCl preserved	A	N/A	4.1	Y	Absent	HOLD-8260(14)
L1631155-10B	Vial HCl preserved	A	N/A	4.1	Y	Absent	HOLD-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1631155
Project Number:	T0188-013-001	**Report Date:**	10/07/16

GLOSSARY

Acronyms

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).
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.
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.
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.
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

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

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.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1631155
Project Number:	T0188-013-001	**Report Date:**	10/07/16

Data Qualifiers

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.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

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.

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).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	500 SOUTH UNION STREET	**Lab Number:**	L1631155
Project Number:	T0188-013-001	**Report Date:**	10/07/16

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.

Certification Information

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

Westborough Facility
EPA 624: 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 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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, SM4500Cl-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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, 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

ALPHA ANALYTICAL

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 ___ of ___

Date Rec'd in Lab: 10/1/16

ALPHA Job #: L1631155

Project Information

Project Name: 500 South Union Street
Project Location: Spencerport NY.
Project #: T0188-013-001
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information

Client: Turnkey Environmental.
Address: 2558 Hamburg Turnpike
Buffalo NY. 14218
Phone: 716-856-0599
Fax:
Email: nmunley@turnkeyllc.com

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS: GC/MS VOAs 8260

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	GC/MS VOAs 8260	Sample Specific Comments	Total Bottles
31155-01	MW-1D	9-29-16	9:40	GW	CMC	X		3
02	PZ-5	9-29-16	10:10	GW	CMC	X		2
03	MW-2D	9-29-16	10:30	GW	CMC	X		3
04	MW-3	9-29-16	11:10	GW	CMC	X		3
05	PZ-8	9-29-16	13:15	GW	CMC	X		2
06	MW-4D (MS/MSD)	9-29-16	11:40	GW	CMC	X		9
07	MW-106	9-29-16	12:50	GW	CMC	X		3
08	MW-5D	9-29-16	12:30	GW	CMC	X		3
09	Blind Dup	9-29-16	8:00	GW	CMC	X		3

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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

Relinquished By:	Date/Time	Received By:	Date/Time
Charlotte Clark	9-30-16/15:20	[signature] AAL	9-30-16 @ 1540
[signature] AAL	9-30-16 @ 1540	[signature]	10/1/16 00:40

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. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

August 01, 2016

Analytical Report for Service Request No: R1604009

Mr. Nate Munley
Benchmark Environmental Engineering
2558 Hamburg Turnpike
Suite 300
Lacakwanna, NY 14218

Laboratory Results for: 500 South Union Street/0188-013-001

Dear Mr. Munley:

Enclosed are the results of the sample(s) submitted to our laboratory on April 22, 2016. For your reference, these analyses have been assigned our service request number **R1604009**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice M Jaeger

Janice Jaeger
Project Manager

SDG NARRATIVE

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Bldg. 300, Suite 360
Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client:	Benchmark Environmental Engineering
Service Request No.:	R1604009
Project:	500 South Union Street
Date Received:	04/22/16
Sample Matrix:	Water
Project/Case No.:	

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Water samples were received for analysis at ALS Environmental on 04/22/16. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Inorganics

Water samples were analyzed for a site specific list of inorganics. Please see attached report pages for method numbers.

All Laboratory Control Sample (LCS) recoveries were within limits.

All CCV's were acceptable except CCV3 for Nitrate+Nitrite and has been flagged with an "*". No data was affected.

Site specific QC was not requested on these samples; however was performed. All outlying QC has been flagged with an "*".

All Method blanks and CCB's were free of contamination.

No other analytical or QC problems were encountered.

Metals

Water samples were analyzed for a site specific list of Metals. Please see attached report pages for method numbers.

All LCS recoveries were within limits.

Site specific QC was not requested on these samples.

All Method blanks were free of contamination above the MRL.

No other analytical or QC problems were encountered.

Volatile Organics

Water samples were analyzed for a site list of Volatile Organics by Method 5030C/8260C from SW-846.

All Tuning criteria for BFB were within QC limits.

All the initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except as noted on the attached CCV summaries. All positive detections for these compounds associated with this CCV should be considered as estimated.

All Internal Standard Areas (IS) were within QC limits.

All surrogate standard recoveries were acceptable.

All Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) recoveries were within limits.

Site specific QC was performed on MW-2D. All outlying QC has been flagged with an "*".

The Method Blanks associated with these samples were free of contamination.

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #:	0188-013-001	Batch Complete:	Yes	Date Revised:	
Submission:	R1604009	Diskette Requested:	No	Date Due:	5/6/16
Client:	Benchmark Environmental Enginee	Date: 8/1/16		Protocol: SW846	
Client Rep:	JJAEGER	Custody Seal: Present/Absent:		Shipping No.:	
Project:	500 South Union Street	Chain of Custody: Present/Absent:		SDG #:	MW-1D

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1604009-001	BLIND DUPE	Water	8260C	4/22/16	4/22/16			
R1604009-002	MW-1D	Water	300.0, 8260C, 353.2, 6010C	4/22/16	4/22/16			
R1604009-003	PZ-5	Water	8260C	4/22/16	4/22/16			
R1604009-004QC	MW-2D	Water	8260C, 6010C, 300.0, 353.2	4/22/16	4/22/16			
R1604009-005	MW-3	Water	8260C	4/22/16	4/22/16			
R1604009-005.R01	MW-3	Water	8260C	4/22/16	4/22/16			
R1604009-006	MW-4D	Water	8260C, 6010C, 300.0, 353.2	4/22/16	4/22/16			
R1604009-007	MW-106	Water	8260C	4/22/16	4/22/16			
R1604009-008	MW-5D	Water	8260C	4/22/16	4/22/16			
R1604009-009	PZ-8	Water	8260C	4/22/16	4/22/16			
R1604009-010	Trip Blank	Water	8260C	4/22/16	4/22/16			

Folder Comments:

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

CHAINS OF CUSTODY

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Bldg. 300, Suite 360
Rochester, NY 14623
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www.alsglobal.com

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

36516

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE _____ OF _____

Project Name: 500 South Union Street	Project Number: 0188-013-001
Project Manager: Nathan Munley	Report CC:
Company/Address: 2558 Hamburg Turnpike, Lackawanna, NY	
Phone #: (716) 856-0599	Email: nmunley@turnkeyllc.com
Sampler's Signature: Charlotte Clark	Sampler's Printed Name: Charlotte Clark

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Ethane, ethene, methane	Fe	SO4	Nitrate/Nitrite						
Blind Dupe		4/22/16	8:00	water	X																
MW-1D			9:00		X								X	X	X						
PZ-5			9:45		X																
MW-2D (MS/MSD)			10:05		X								X	X	X						
MW-3			11:00		X																
MW-4D			11:40		X								X	X	X						
MW-106			13:30		X																
MW-5D			12:55		X																
PZ-8			15:30		X																

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS

Metals

Insufficient volume in RPP containers to fill bottles completely for Fe, SO_4, NO_2/NO_3.

See QAPP ☐

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_____ 1 day _____ 2 day _____ 3 day

_____ 4 day ✓ 5 day

REQUESTED REPORT DATE

_____

REPORT REQUIREMENTS

___ I. Results Only

✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with

Edata ___ Yes ___

INVOICE INFORMATION

PO #

BILL TO:

R1604009 5
Benchmark Environmental Engineering
500 South Union Street

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Charlotte Clark	Signature: [signature]	Signature	Signature	Signature	Signature
Printed Name: Charlotte Clark	Printed Name: ALS	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Turnkey / BM	Firm: 4/22/16 1621	Firm	Firm	Firm	Firm
Date/Time: 4/22/16 1621	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

R1604009 5
Benchmark Environmental Engineering
600 South Union Street

Cooler Receipt and Preservation Check Form

Project/Client Benchmark Folder Number

Cooler received on 4/22/16 by: DW COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: **(Wet Ice)** **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 4/22/16 Time: 1626 ID: IR#3 (IR#5) From: ~~Temp Blank~~ Sample Bottle

Observed Temp (°C)	5.7						
Correction Factor (°C)	±0.0						
Corrected Temp (°C)	5.7						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: ______ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: ______ Standing Approval Client aware at drop-off Client notified by: ______

All samples held in storage location: R-002 by DW on 4/22/16 at 1626
5035 samples placed in storage location: ______ by ______ on ______ at ______

PC Secondary Review: JMJ 4/28/16

Cooler Breakdown: Date: 4/23/16 Time: 1635 by: WIAE

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? YES (NO)
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3	✓		DDBC6132D	04/17				
≤2	H_2SO_4	✓		NC1491458	03/17				
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: ______

Bottle lot numbers: 010116 7AAC 5-211-007

Other Comments:

TB not on Custody

PC Secondary Review: JMJ 4/28/16

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Benchmark Environmental Engineering **Service Request:** R1604009
Project: 500 South Union Street/0188-013-001

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1604009-001.01					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-001.02					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-001.03					
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1335	R-001-S10 / KRUEST	
		4/26/16	1749	In Lab / FNAEGLER	
		4/26/16	1755	R-001-S10 / DLIPANI	
R1604009-002.01					
	353.2				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-002 / DWARD	
		5/3/16	1330	In Lab / CKUTZER	
		5/3/16	1844	R-002 / MROGERSON	
R1604009-002.02					
	300.0				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-002 / DWARD	
R1604009-002.03					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-002.04					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-002.05					
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1335	R-001-S10 / KRUEST	
R1604009-002.06					
	6010C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-A01 / DWARD	
		4/27/16	1335	In Lab / CGILDAY	
		4/27/16	1513	R-002 / CGILDAY	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Benchmark Environmental Engineering **Service Request:** R1604009
Project: 500 South Union Street/0188-013-001

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1604009-003.01					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-003.02					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-003.03					
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1335	R-001-S10 / KRUEST	
		4/26/16	1749	In Lab / FNAEGLER	
		4/26/16	1755	R-001-S10 / DLIPANI	
R1604009-004.01					
	353.2				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-002 / DWARD	
		5/3/16	1330	In Lab / CKUTZER	
		5/3/16	1844	R-002 / MROGERSON	
R1604009-004.02					
	300.0				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-002 / DWARD	
		5/3/16	0947	In Lab / CWOODS	
		5/3/16	1128	R-002 / MROGERSON	
R1604009-004.03					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-004.04					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-004.05					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-004.06					
	6010C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-A01 / DWARD	
		4/27/16	1335	In Lab / CGILDAY	
		4/27/16	1513	R-002 / CGILDAY	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Benchmark Environmental Engineering **Service Request:** R1604009
Project: 500 South Union Street/0188-013-001

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1604009-004.07					
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-004.08					
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-004.09					
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-004.10					
	8260C				
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1335	R-001-S10 / KRUEST	
R1604009-004.11					
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-004.12					
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-005.01					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-005.02					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-005.03					
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1336	R-001-S10 / KRUEST	
		4/26/16	1749	In Lab / FNAEGLER	
		4/26/16	1755	R-001-S10 / DLIPANI	
R1604009-006.01					
	353.2				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-002 / DWARD	
		5/3/16	1330	In Lab / CKUTZER	
		5/3/16	1844	R-002 / MROGERSON	

ALS ENVIRONMENTAL

Chain of Custody Report

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Project: 500 South Union Street/0188-013-001

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1604009-006.02					
	300.0				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-002 / DWARD	
R1604009-006.03					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-006.04					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-006.05					
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1336	R-001-S10 / KRUEST	
R1604009-006.06					
	6010C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-A01 / DWARD	
		4/27/16	1335	In Lab / CGILDAY	
		4/27/16	1513	R-002 / CGILDAY	
R1604009-007.01					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-007.02					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-007.03					
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1336	R-001-S10 / KRUEST	
R1604009-008.01					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-008.02					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-008.03					

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Benchmark Environmental Engineering **Service Request:** R1604009
Project: 500 South Union Street/0188-013-001

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1336	R-001-S10 / KRUEST	
		4/26/16	1750	In Lab / FNAEGLER	
		4/26/16	1755	R-001-S10 / DLIPANI	
R1604009-009.01					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-009.02					
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-009.03					
	8260C				
		4/23/16	1636	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1336	R-001-S10 / KRUEST	
		4/26/16	1750	In Lab / FNAEGLER	
		4/26/16	1755	R-001-S10 / DLIPANI	
R1604009-010.01					
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-010.02					
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
R1604009-010.03					
	8260C				
		4/23/16	1637	SMO / DWARD	
		4/23/16	1638	R-001 / DWARD	
		4/25/16	1233	In Lab / FNAEGLER	
		4/25/16	1335	R-001-S10 / KRUEST	

SAMPLE RESULTS

ALS Environmental—Rochester Laboratory
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Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 0800
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	BLIND DUPE	**Units:**	µg/L
Lab Code:	R1604009-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 19:22		493563	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
1,4-Dioxane	40	U	40	1	NA	4/26/16 19:22		493563	
2-Butanone (MEK)	5.0	U	5.0	1	NA	4/26/16 19:22		493563	
2-Hexanone	5.0	U	5.0	1	NA	4/26/16 19:22		493563	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 19:22		493563	
Acetone	5.0	U	5.0	1	NA	4/26/16 19:22		493563	
Benzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Bromoform	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Carbon Disulfide	**9.3**		1.0	1	NA	4/26/16 19:22		493563	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Chloroform	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	

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Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 0800
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	BLIND DUPE	**Units:**	µg/L
Lab Code:	R1604009-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 19:22		493563	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Styrene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Toluene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
Vinyl Chloride	**190**		1.0	1	NA	4/26/16 19:22		493563	
cis-1,2-Dichloroethene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 19:22		493563	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	
trans-1,2-Dichloroethene	**20**		1.0	1	NA	4/26/16 19:22		493563	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 19:22		493563	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85-122	4/26/16 19:22	
Dibromofluoromethane	105	89-119	4/26/16 19:22	
Toluene-d8	107	87-121	4/26/16 19:22	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 0900
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-1D	**Units:**	µg/L
Lab Code:	R1604009-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 03:39		493285	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
1,4-Dioxane	40	U	40	1	NA	4/26/16 03:39		493285	
2-Butanone (MEK)	5.0	U	5.0	1	NA	4/26/16 03:39		493285	
2-Hexanone	5.0	U	5.0	1	NA	4/26/16 03:39		493285	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 03:39		493285	
Acetone	5.0	U	5.0	1	NA	4/26/16 03:39		493285	
Benzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Bromoform	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Carbon Disulfide	**2.1**		1.0	1	NA	4/26/16 03:39		493285	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Chloroform	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	

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Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 0900
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-1D	**Units:**	µg/L
Lab Code:	R1604009-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 03:39		493285	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Styrene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Toluene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
Vinyl Chloride	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
cis-1,2-Dichloroethene	**5.0**		1.0	1	NA	4/26/16 03:39		493285	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 03:39		493285	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 03:39		493285	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85-122	4/26/16 03:39	
Dibromofluoromethane	105	89-119	4/26/16 03:39	
Toluene-d8	106	87-121	4/26/16 03:39	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 0945
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	PZ-5	**Units:**	µg/L
Lab Code:	R1604009-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	10	U	10	10	NA	4/26/16 19:47		493563	
1,1,2,2-Tetrachloroethane	10	U	10	10	NA	4/26/16 19:47		493563	
1,1,2-Trichloroethane	10	U	10	10	NA	4/26/16 19:47		493563	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	10	NA	4/26/16 19:47		493563	
1,1-Dichloroethane (1,1-DCA)	10	U	10	10	NA	4/26/16 19:47		493563	
1,1-Dichloroethene (1,1-DCE)	10	U	10	10	NA	4/26/16 19:47		493563	
1,2,3-Trichlorobenzene	10	U	10	10	NA	4/26/16 19:47		493563	
1,2,4-Trichlorobenzene	10	U	10	10	NA	4/26/16 19:47		493563	
1,2,4-Trimethylbenzene	10	U	10	10	NA	4/26/16 19:47		493563	
1,2-Dibromo-3-chloropropane (DBCP)	20	U	20	10	NA	4/26/16 19:47		493563	
1,2-Dibromoethane	10	U	10	10	NA	4/26/16 19:47		493563	
1,2-Dichlorobenzene	10	U	10	10	NA	4/26/16 19:47		493563	
1,2-Dichloroethane	10	U	10	10	NA	4/26/16 19:47		493563	
1,2-Dichloropropane	10	U	10	10	NA	4/26/16 19:47		493563	
1,3,5-Trimethylbenzene	10	U	10	10	NA	4/26/16 19:47		493563	
1,3-Dichlorobenzene	10	U	10	10	NA	4/26/16 19:47		493563	
1,4-Dichlorobenzene	10	U	10	10	NA	4/26/16 19:47		493563	
1,4-Dioxane	400	U	400	10	NA	4/26/16 19:47		493563	
2-Butanone (MEK)	**670**		50	10	NA	4/26/16 19:47		493563	
2-Hexanone	**60**		50	10	NA	4/26/16 19:47		493563	
4-Isopropyltoluene	10	U	10	10	NA	4/26/16 19:47		493563	
4-Methyl-2-pentanone	50	U	50	10	NA	4/26/16 19:47		493563	
Acetone	**210**		50	10	NA	4/26/16 19:47		493563	
Benzene	10	U	10	10	NA	4/26/16 19:47		493563	
Bromochloromethane	10	U	10	10	NA	4/26/16 19:47		493563	
Bromodichloromethane	10	U	10	10	NA	4/26/16 19:47		493563	
Bromoform	10	U	10	10	NA	4/26/16 19:47		493563	
Bromomethane	10	U	10	10	NA	4/26/16 19:47		493563	
Carbon Disulfide	10	U	10	10	NA	4/26/16 19:47		493563	
Carbon Tetrachloride	10	U	10	10	NA	4/26/16 19:47		493563	
Chlorobenzene	10	U	10	10	NA	4/26/16 19:47		493563	
Chloroethane	10	U	10	10	NA	4/26/16 19:47		493563	
Chloroform	10	U	10	10	NA	4/26/16 19:47		493563	
Chloromethane	10	U	10	10	NA	4/26/16 19:47		493563	
Cyclohexane	10	U	10	10	NA	4/26/16 19:47		493563	
Dibromochloromethane	10	U	10	10	NA	4/26/16 19:47		493563	

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Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 0945
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	PZ-5	**Units:**	µg/L
Lab Code:	R1604009-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	10	U	10	10	NA	4/26/16 19:47		493563	
Dichloromethane	10	U	10	10	NA	4/26/16 19:47		493563	
Ethylbenzene	10	U	10	10	NA	4/26/16 19:47		493563	
Isopropylbenzene (Cumene)	10	U	10	10	NA	4/26/16 19:47		493563	
Methyl Acetate	20	U	20	10	NA	4/26/16 19:47		493563	
Methyl tert-Butyl Ether	10	U	10	10	NA	4/26/16 19:47		493563	
Methylcyclohexane	10	U	10	10	NA	4/26/16 19:47		493563	
Styrene	10	U	10	10	NA	4/26/16 19:47		493563	
Tetrachloroethene (PCE)	**52**		10	10	NA	4/26/16 19:47		493563	
Toluene	10	U	10	10	NA	4/26/16 19:47		493563	
Trichloroethene (TCE)	10	U	10	10	NA	4/26/16 19:47		493563	
Trichlorofluoromethane (CFC 11)	10	U	10	10	NA	4/26/16 19:47		493563	
Vinyl Chloride	10	U	10	10	NA	4/26/16 19:47		493563	
cis-1,2-Dichloroethene	**270**		10	10	NA	4/26/16 19:47		493563	
cis-1,3-Dichloropropene	10	U	10	10	NA	4/26/16 19:47		493563	
m,p-Xylenes	20	U	20	10	NA	4/26/16 19:47		493563	
n-Butylbenzene	10	U	10	10	NA	4/26/16 19:47		493563	
n-Propylbenzene	10	U	10	10	NA	4/26/16 19:47		493563	
o-Xylene	10	U	10	10	NA	4/26/16 19:47		493563	
sec-Butylbenzene	10	U	10	10	NA	4/26/16 19:47		493563	
tert-Butylbenzene	10	U	10	10	NA	4/26/16 19:47		493563	
trans-1,2-Dichloroethene	10	U	10	10	NA	4/26/16 19:47		493563	
trans-1,3-Dichloropropene	10	U	10	10	NA	4/26/16 19:47		493563	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85-122	4/26/16 19:47	
Dibromofluoromethane	105	89-119	4/26/16 19:47	
Toluene-d8	105	87-121	4/26/16 19:47	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1005
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-2D	**Units:**	µg/L
Lab Code:	R1604009-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 04:28		493285	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
1,4-Dioxane	40	U	40	1	NA	4/26/16 04:28		493285	
2-Butanone (MEK)	5.0	U	5.0	1	NA	4/26/16 04:28		493285	
2-Hexanone	5.0	U	5.0	1	NA	4/26/16 04:28		493285	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 04:28		493285	
Acetone	5.0	U	5.0	1	NA	4/26/16 04:28		493285	
Benzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Bromoform	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Carbon Disulfide	**15**		1.0	1	NA	4/26/16 04:28		493285	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Chloroform	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	

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Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1005
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-2D	**Units:**	µg/L
Lab Code:	R1604009-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 04:28		493285	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Styrene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Toluene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Trichloroethene (TCE)	**5.8**		1.0	1	NA	4/26/16 04:28		493285	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
Vinyl Chloride	**14**		1.0	1	NA	4/26/16 04:28		493285	
cis-1,2-Dichloroethene	**2.2**		1.0	1	NA	4/26/16 04:28		493285	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 04:28		493285	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	
trans-1,2-Dichloroethene	**3.9**		1.0	1	NA	4/26/16 04:28		493285	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 04:28		493285	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85-122	4/26/16 04:28	
Dibromofluoromethane	104	89-119	4/26/16 04:28	
Toluene-d8	104	87-121	4/26/16 04:28	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1100
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1604009-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,1-Dichloroethene (1,1-DCE)	**1.8**		1.0	1	NA	4/26/16 04:52		493285	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 04:52		493285	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
1,4-Dioxane	40	U	40	1	NA	4/26/16 04:52		493285	
2-Butanone (MEK)	**61**		5.0	1	NA	4/26/16 04:52		493285	
2-Hexanone	**120**		5.0	1	NA	4/26/16 04:52		493285	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 04:52		493285	
Acetone	5.0	U	5.0	1	NA	4/26/16 04:52		493285	
Benzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Bromoform	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Carbon Disulfide	**2.3**		1.0	1	NA	4/26/16 04:52		493285	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Chloroform	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1100
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-3	**Units:**	µg/L
Lab Code:	R1604009-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 04:52		493285	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Styrene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Tetrachloroethene (PCE)	**5.1**		1.0	1	NA	4/26/16 04:52		493285	
Toluene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Trichloroethene (TCE)	**27**		1.0	1	NA	4/26/16 04:52		493285	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
Vinyl Chloride	**22**		1.0	1	NA	4/26/16 04:52		493285	
cis-1,2-Dichloroethene	**780**	D	10	10	NA	4/26/16 20:11		493563	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 04:52		493285	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	
trans-1,2-Dichloroethene	**3.9**		1.0	1	NA	4/26/16 04:52		493285	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 04:52		493285	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	4/26/16 04:52	
Dibromofluoromethane	102	89-119	4/26/16 04:52	
Toluene-d8	103	87-121	4/26/16 04:52	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1140
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-4D	**Units:**	µg/L
Lab Code:	R1604009-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 05:17		493285	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
1,4-Dioxane	40	U	40	1	NA	4/26/16 05:17		493285	
2-Butanone (MEK)	5.0	U	5.0	1	NA	4/26/16 05:17		493285	
2-Hexanone	5.0	U	5.0	1	NA	4/26/16 05:17		493285	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 05:17		493285	
Acetone	5.0	U	5.0	1	NA	4/26/16 05:17		493285	
Benzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Bromoform	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Carbon Disulfide	**8.3**		1.0	1	NA	4/26/16 05:17		493285	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Chloroform	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1140
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-4D	**Units:**	µg/L
Lab Code:	R1604009-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 05:17		493285	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Styrene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Toluene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
Vinyl Chloride	**190**		1.0	1	NA	4/26/16 05:17		493285	
cis-1,2-Dichloroethene	**1.4**		1.0	1	NA	4/26/16 05:17		493285	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 05:17		493285	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	
trans-1,2-Dichloroethene	**20**		1.0	1	NA	4/26/16 05:17		493285	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 05:17		493285	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	4/26/16 05:17	
Dibromofluoromethane	103	89-119	4/26/16 05:17	
Toluene-d8	103	87-121	4/26/16 05:17	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1330
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-106	**Units:**	µg/L
Lab Code:	R1604009-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 05:41		493285	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
1,4-Dioxane	40	U	40	1	NA	4/26/16 05:41		493285	
2-Butanone (MEK)	5.0	U	5.0	1	NA	4/26/16 05:41		493285	
2-Hexanone	5.0	U	5.0	1	NA	4/26/16 05:41		493285	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 05:41		493285	
Acetone	5.0	U	5.0	1	NA	4/26/16 05:41		493285	
Benzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Bromoform	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Carbon Disulfide	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Chloroform	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	

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Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1330
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-106	**Units:**	µg/L
Lab Code:	R1604009-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 05:41		493285	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Styrene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Tetrachloroethene (PCE)	**45**		1.0	1	NA	4/26/16 05:41		493285	
Toluene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Trichloroethene (TCE)	**1.5**		1.0	1	NA	4/26/16 05:41		493285	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
Vinyl Chloride	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
cis-1,2-Dichloroethene	**1.4**		1.0	1	NA	4/26/16 05:41		493285	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 05:41		493285	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 05:41		493285	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85-122	4/26/16 05:41	
Dibromofluoromethane	104	89-119	4/26/16 05:41	
Toluene-d8	104	87-121	4/26/16 05:41	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1255
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-5D	**Units:**	µg/L
Lab Code:	R1604009-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,1,2,2-Tetrachloroethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,1,2-Trichloroethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,1-Dichloroethane (1,1-DCA)	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,1-Dichloroethene (1,1-DCE)	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,2,3-Trichlorobenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,2,4-Trichlorobenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,2,4-Trimethylbenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,2-Dibromo-3-chloropropane (DBCP)	4.0	U	4.0	2	NA	4/26/16 20:35		493563	
1,2-Dibromoethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,2-Dichlorobenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,2-Dichloroethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,2-Dichloropropane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,3,5-Trimethylbenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,3-Dichlorobenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,4-Dichlorobenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
1,4-Dioxane	80	U	80	2	NA	4/26/16 20:35		493563	
2-Butanone (MEK)	**99**		10	2	NA	4/26/16 20:35		493563	
2-Hexanone	**210**		10	2	NA	4/26/16 20:35		493563	
4-Isopropyltoluene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
4-Methyl-2-pentanone	10	U	10	2	NA	4/26/16 20:35		493563	
Acetone	**87**		10	2	NA	4/26/16 20:35		493563	
Benzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Bromochloromethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Bromodichloromethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Bromoform	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Bromomethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Carbon Disulfide	**12**		2.0	2	NA	4/26/16 20:35		493563	
Carbon Tetrachloride	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Chlorobenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Chloroethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Chloroform	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Chloromethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Cyclohexane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Dibromochloromethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1255
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-5D	**Units:**	µg/L
Lab Code:	R1604009-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Dichloromethane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Ethylbenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Isopropylbenzene (Cumene)	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Methyl Acetate	4.0	U	4.0	2	NA	4/26/16 20:35		493563	
Methyl tert-Butyl Ether	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Methylcyclohexane	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Styrene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Tetrachloroethene (PCE)	**2.0**		2.0	2	NA	4/26/16 20:35		493563	
Toluene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Trichloroethene (TCE)	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Trichlorofluoromethane (CFC 11)	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
Vinyl Chloride	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
cis-1,2-Dichloroethene	**67**		2.0	2	NA	4/26/16 20:35		493563	
cis-1,3-Dichloropropene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
m,p-Xylenes	4.0	U	4.0	2	NA	4/26/16 20:35		493563	
n-Butylbenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
n-Propylbenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
o-Xylene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
sec-Butylbenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
tert-Butylbenzene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
trans-1,2-Dichloroethene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	
trans-1,3-Dichloropropene	2.0	U	2.0	2	NA	4/26/16 20:35		493563	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85-122	4/26/16 20:35	
Dibromofluoromethane	104	89-119	4/26/16 20:35	
Toluene-d8	105	87-121	4/26/16 20:35	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1530
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	PZ-8	**Units:**	µg/L
Lab Code:	R1604009-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 21:00		493563	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
1,4-Dioxane	40	U	40	1	NA	4/26/16 21:00		493563	
2-Butanone (MEK)	5.0	U	5.0	1	NA	4/26/16 21:00		493563	
2-Hexanone	5.0	U	5.0	1	NA	4/26/16 21:00		493563	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 21:00		493563	
Acetone	**6.6**		5.0	1	NA	4/26/16 21:00		493563	
Benzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Bromoform	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Carbon Disulfide	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Chloroform	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	

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Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1530
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	PZ-8	**Units:**	µg/L
Lab Code:	R1604009-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 21:00		493563	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Styrene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Toluene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
Vinyl Chloride	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
cis-1,2-Dichloroethene	**9.6**		1.0	1	NA	4/26/16 21:00		493563	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 21:00		493563	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 21:00		493563	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85-122	4/26/16 21:00	
Dibromofluoromethane	105	89-119	4/26/16 21:00	
Toluene-d8	107	87-121	4/26/16 21:00	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	R1604009-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,1,2-Trichloroethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,2,3-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,2,4-Trichlorobenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,2,4-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	1	NA	4/26/16 02:51		493285	
1,2-Dibromoethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,2-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,2-Dichloroethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,2-Dichloropropane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,3,5-Trimethylbenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,3-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,4-Dichlorobenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
1,4-Dioxane	40	U	40	1	NA	4/26/16 02:51		493285	
2-Butanone (MEK)	5.0	U	5.0	1	NA	4/26/16 02:51		493285	
2-Hexanone	5.0	U	5.0	1	NA	4/26/16 02:51		493285	
4-Isopropyltoluene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
4-Methyl-2-pentanone	5.0	U	5.0	1	NA	4/26/16 02:51		493285	
Acetone	5.0	U	5.0	1	NA	4/26/16 02:51		493285	
Benzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Bromochloromethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Bromodichloromethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Bromoform	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Bromomethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Carbon Disulfide	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Carbon Tetrachloride	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Chlorobenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Chloroethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Chloroform	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Chloromethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Cyclohexane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Dibromochloromethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	R1604009-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Dichloromethane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Ethylbenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Isopropylbenzene (Cumene)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Methyl Acetate	2.0	U	2.0	1	NA	4/26/16 02:51		493285	
Methyl tert-Butyl Ether	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Methylcyclohexane	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Styrene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Tetrachloroethene (PCE)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Toluene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Trichloroethene (TCE)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
Vinyl Chloride	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
cis-1,2-Dichloroethene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
cis-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
m,p-Xylenes	2.0	U	2.0	1	NA	4/26/16 02:51		493285	
n-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
n-Propylbenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
o-Xylene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
sec-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
tert-Butylbenzene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
trans-1,2-Dichloroethene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	
trans-1,3-Dichloropropene	1.0	U	1.0	1	NA	4/26/16 02:51		493285	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85-122	4/26/16 02:51	
Dibromofluoromethane	101	89-119	4/26/16 02:51	
Toluene-d8	104	87-121	4/26/16 02:51	

ALS Environmental

METALS

COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: R1604009 SDG No.: MW-1D

Lab Code: Case No.: SAS No.:

SOW No.: SW846 CLP-M

Sample ID.	Lab Sample No.
MW-1D	R1604009-002
MW-2D	R1604009-004
MW-4D	R1604009-006

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: See Attatched Case Narrative

Signature: Janice Jaeger Name: Janice Jaeger

Date: 5/26/16 Title: Project Manager

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-1D

Contract: R1604009

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1D

Matrix (soil/water): WATER Lab Sample ID: R1604009-002

Level (low/med): LOW Date Received: 4/22/2016

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	9470			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D

Contract: R1604009

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1D

Matrix (soil/water): WATER Lab Sample ID: R1604009-004

Level (low/med): LOW Date Received: 4/22/2016

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	889			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-4D

Contract: R1604009

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-1D

Matrix (soil/water): WATER Lab Sample ID: R1604009-006

Level (low/med): LOW Date Received: 4/22/2016

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	1210			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 0900
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-1D		
Lab Code:	R1604009-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrate+Nitrite as Nitrogen	353.2	**0.053**		mg/L	0.050	1	NA	5/3/16 16:03	
Sulfate	300.0	2.0	U	mg/L	2.0	10	NA	4/22/16 18:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1005
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-2D		
Lab Code:	R1604009-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	5/3/16 16:04	
Sulfate	300.0	**73.2**		mg/L	2.0	10	NA	5/3/16 20:39	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Benchmark Environmental Engineering	**Service Request:**	R1604009
Project:	500 South Union Street/0188-013-001	**Date Collected:**	4/22/16 1140
Sample Matrix:	Water	**Date Received:**	4/22/16
Sample Name:	MW-4D		
Lab Code:	R1604009-006	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrate+Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	1	NA	5/3/16 16:05	
Sulfate	300.0	**73.0**		mg/L	2.0	10	NA	4/22/16 19:30	