PERIODIC REVIEW REPORT

1050-1088 NIAGARA STREET SITE
SITE NO. C915277

BUFFALO, NEW YORK

July 2020 0136-013-005

Prepared for:

9271 Group, LLC

Prepared By:

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1050-1088 Niagara Street Site C915277
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1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC (Benchmark), in association with TurnKey Environmental Restoration, LLC (TurnKey) has prepared this Periodic Review Report (PRR), on behalf of 9271 Group, LLC to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C915277, located in the City of Buffalo, Erie County, New York (Site; see Figures 1 and 2).

This PRR has been prepared for the 1050-1088 Niagara 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 and Change of Use Notification Form have been completed for the Site (see Appendix A).

This PRR and the associated inspection forms have been completed for the April 29, 2019 to July 31, 2020 reporting period. It should be noted that the reporting period was modified in consultation with the Department, due to delays related to the novel coronavirus.

1.1 Site Background

The Site consists of two (2) adjoining parcels, identified as 1050 and 1088 Niagara Street, totaling 2.7± acres, located in the City of Buffalo, Erie County, New York. The Site is currently improved with an existing building and parking lot located on the 1050 Niagara Street parcel; a recently constructed building with a commercial drive thru and parking lot on the 1088 Niagara Street parcel; and associated landscaped areas (see Figures 1 and 2).

The Site has a long history of being used for commercial and industrial operations since at least 1889. The International Brewing Company and American Gelatine Corp. operated on-Site in the early 1900s. The northern portion of the Site (1088 Niagara Street parcel) included a filling station from at least the 1920s through at least 1960. Gulf Oil Corporation and/or Hygrade Petroleum Co. were identified as on-Site operators from at least the 1920s through at least 1960. The Niagara Lithograph Company, a commercial printing company, was located on the 1050 Niagara Street parcel of the Site from at least 1930 through at least 1990; and Miken Companies, also a commercial printing company, was located on-Site until at least 2000.

1.2 Remedial History

After acceptance into the NYS BCP in October 2013, a Remedial Investigation/Interim Remedial Measures/Alternatives Analysis (RI/IRM/AA) Work Plan and supplemental work plans were prepared and submitted to the NYSDEC for review and approval. Interim Remedial Measures (IRM) activities were completed to address the removal of multiple abandoned USTs, appurtenant piping, and hydraulic lifts; excavation of petroleum, PCB, PAH, and metals impacted soils; groundwater management; and excavation backfilling. A Remedial Action Work Plan (RAWP) was prepared and approved by the NYSDEC detailing the soil vapor extraction (SVE) system, and site-wide cover system. The cleanup was successful in achieving the remedial objectives for the Site. The Site Management Plan (SMP) and Final Engineering Report (FER) were approved by the Department in December 2017. The NYSDEC issued a COC for the Site on December 29, 2017.

1.3 Recommendations

Based on the post-remedial monitoring and analytical results for the Site, the following recommendations are provided for the Site.

- Discontinue operation of the Soil Vapor Extraction System.
- Modification of groundwater sampling frequency to annual.
- Modification of groundwater sampling parameter list to NYSDEC Commissioners Policy-51 (CP-51) Volatile Organic Compounds (VOCs) plus Tentatively Identified Compounds (TICs).
- Modification of annual certification reporting to triennial (every three years).

Update mailing address to -
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1.4 Compliance

The Site is in general compliance with the SMP. The completed IC/EC form is included in Appendix A and a Site photo log is included in Appendix B.

2.0 SITE OVERVIEW

Previous investigations identified environmental contamination on-Site that required remediation. 9271 Group, LLC entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC to remediate the Site. BCP investigations and remediation were completed between 2014 and 2017.

The remedial activities included:

- Excavation, cleaning, and removal of four (4) underground storage tanks (USTs) and appurtenant piping;
- Excavation and off-site disposal of non-hazardous soil/fill exceeding the Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs);
- Delineation, excavation and off-site disposal of hazardous PCB impacted soil/fill;
- Installation of a Soil Vapor Extraction (SVE) system to mitigate nuisance petroleum VOCs within the subsurface soil/fill and petroleum related VOCs and semi-volatile organic compounds (SVOCs) in groundwater;
- Construction and maintenance of a cover system consisting of the existing building, new building, asphalt and concrete pavement, sidewalks; and minimum 24-inches soil cover of approved clean material placed on top of demarcation layer, to prevent human exposure to remaining soil/fill exceeding RRSCOs.
- Placement of an environmental easement to (1) implement, maintain, and monitor Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to Restricted Residential, Commercial, or Industrial uses only.

Remedial activities were completed in September 2017. The FER and SMP for the Site were approved by the Department in December 2017. The Certificate of Completion (COC) was issued for the Site on December 29, 2017.

3.0 REMEDY PERFORMANCE

Post-remedial inspections, groundwater monitoring, and operation and maintenance of the SVE system have been completed at the Site. SVE influent and effluent air sampling analytical results are summarized on Table 1 and SVE system inspection logs are provided in Appendix C.

Groundwater sample analytical results are summarized on Table 2, with representative groundwater isopotential shown on Figures 4A-4D for the associated sampling events. Laboratory analytical data reports are provided electronically in Appendix D.

The cover system is maintained in general accordance with the approved SMP.

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

4.0 SITE MANAGEMENT PLAN

The SMP was prepared for the Site and approved by the Department in December 2017. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, 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 Soil Vapor Extraction (SVE) system; the Long-Term Groundwater Monitoring (LTGWM) Plan; and the Annual Inspection & Certification Program.

4.1.1 SVE System

The SVE system is comprised of three (3) SVE wells, one (1) vacuum monitoring point (VMP), and the SVE remedial system in an enclosed trailer. SVE system emissions are controlled using two (2) vapor-phase granular active carbon (GAC) vessels.

Installation of the SVE system was completed between June and September 2017. System startup and optimization was completed between September and November 2017.

Routine SVE system monitoring was completed during the reporting period, including field measurements of system influent and effluent air with photoionization detector (PID), vacuum readings on the SVE wells and VMP, and routine system maintenance.

Influent PID readings have decreased since start up to static low-levels and effluent air PID readings have consistently been 0.0 ppm. No condensate has been detected in the knockout tank.

SVE System Operation

The SVE System has been operated since installation in September 2017. The SVE was operated in continuous mode, whereby vacuum was applied to each of the three extraction wells simultaneously from Sept 2017 through August 2019. Routine monitoring during that period indicated the system had reached a low-level steady state influent concentration, with influent PID readings typically 0.0 ppm.

In August 2019, in consultation with the Department, operation of the SVE was modified to a pulsed mode, as recommended in USACE SVE Engineer Manual (2002), for systems that have reached low-level influent concentrations, in an effort to increase volatilization, thereby increasing treatment removal efficiency.

Pulsed operation monitoring results do not show an increase in influent PID readings or air VOC concentrations (see Table 1 and SVE log in Appendix C). Pulsed operation has rotated between the SVE wells over 3 full rounds, with no noted changes during the multiple events.

Therefore, based on the operational results of the SVE system, including modification of system operation in an effort to increase removal efficiency, the current static low-level influent VOC readings (0.0 ppm PID), the significant reduction in influent air concentrations from start-up (12,458 ug/m3 total VOCs in 2017 vs 70 ug/m3 total VOCs in 2020), and the continued improvement of on-Site groundwater based on the analytical results (see below), it is recommend to discontinue operation of the SVE system.

Discontinuation of SVE will include demobilizing the SVE System trailer, properly characterizing and disposing or recycling the vapor phase GAC, cleaning and disposal of any residual water within the condensate tank, and modification/restoration of the cover system in the vicinity of the SVE System with additional hardscape and/or soil cover compliant with the SMP requirements. Documentation of the removal work and handling of the GAC and condensate water, if any, will be provided to the Department after system removal is complete.

4.1.2 Long-Term Groundwater Monitoring Plan

Long-term groundwater monitoring (LTGWM) has been completed since issuance of COC in 2017. A total of five (5) rounds of post-IRM groundwater samples have been collected. Two (2) sampling events were completed during this reporting period, in November 2019 and July 2020 (the 2020 semi-annual groundwater monitoring event was delayed due to the novel coronavirus restrictions in early 2020). Groundwater sampling logs are provided in Appendix D.

Groundwater analytical results are summarized on Table 2 and laboratory analytical data reports are provided in Appendix E. Analytical results show a continued decrease in concentrations, including TICs, since completion of the IRMs and remedial actions.

It should be noted that MW-4 and MW-5R have been dry since completion of the cover system. Wells are checked during sampling events and will be sampled if recoverable volume is present during future sampling events.

Based on the post-IRM groundwater analytical results, it is recommended to modify the post-COC groundwater sampling frequency from semi-annual (2x per year) to annual (1x per year). Additionally, it is recommended to reduce the groundwater sampling constituent list to CP-51 VOCs plus TICs.

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.

Site inspections were completed throughout the reporting period. The property is being used in accordance with the Restricted Residential Use [mixed-use commercial (office and retail) and residential (apartments)], with surface parking, paved walkways, and landscaped areas. No observable indication of intrusive activities was noted during the Site inspection. No observable use of groundwater was noted during the reporting period. Minor erosion of the embankment along the west side of the Site was noted during routine Site inspections; recent inspections show that vegetation has been established and the embankment is stabilized. Additional minor erosion and rutting was noted in the northern portion of the Site, proximate to the fast food drive thru; no observable sediment runoff was

noted within the paved parking area and vegetative conditions remain consistent with previous observations.

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

At this time, it is recommended to modify the Certification Reporting frequency from annual to triennial (every 3rd year). Annual site inspection and groundwater monitoring will be completed, with reporting and certification every 3rd year.

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 without water quality treatment as determined by the NYSDOH;
- Land-Use Restriction: The controlled property may be used for restricted residential, commercial and/or industrial use; and
- Implementation of the SMP.

4.3.2 Engineering Controls

- All engineering controls must be operated, maintained, and inspected as specified in the SMP;

- Soil Vapor Extraction – SVE System has been operated and maintained.
- Cover System – The cover system, including buildings, concrete sidewalks, asphalt, and landscaped vegetated areas are being maintained in compliance with the SMP.

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

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions:

The Site was in general compliance with the SMP.

Recommendations:

- Discontinue operation of the Soil Vapor Extraction System
- Modification of groundwater sampling frequency to annual (1x per year).
- Modification of groundwater sampling parameter list to CP-51 VOCs plus TICs.
- Modification of annual certification reporting frequency to triennial (every three years).

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6.0 DECLARATION/LIMITATION

Benchmark-TurnKey personnel conducted the annual site inspections for the 1050-1088 Niagara Street BCP Site No. C915277, located in Buffalo, New York, according to generally accepted practices. This report complied with the scope of work provided to 9271 Group, LLC by Benchmark TurnKey.

This report has been prepared for the exclusive use of 9271 Group, LLC. 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 9271 Group, LLC. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark-TurnKey.

TABLES

TABLE 1

SUMMARY OF SVE AIR ANALYTICAL RESULTS

1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK

PARAMETERS [1]	Sample Location			
	SVE-1 INFLUENT		SVE-2 EFFLUENT	
	11/2/2017	7/2/2020	11/2/2017	7/2/2020
1,2,4-TRIMETHYLBENZENE	ND	1.38	2.9	1.95
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	ND	1.47	ND
2,2,4-TRIMETHYLPENTANE (ISO-OCTANE)	227	1.25	2.8	ND
ACETONE	1300	19.2	171	134
BENZENE	169	0.831	0.674	1.56
CARBON DISULFIDE	ND	ND	ND	1.55
CHLOROMETHANE	ND	1.07	0.869	2.48
CYCLOHEXANE	159	ND	1.27	ND
DICHLORODIFLUOROMETHANE	ND	2.34	2.22	5.24
ETHANOL	ND	26.2	ND	99.1
ETHYLBENZENE	58.2	ND	1.02	0.903
ISOPROPANOL	ND	1.57	ND	3
M,P-XYLENES	226	2.25	7.73	4
METHYL BUTYL KETONE (2-HEXANONE)	ND	ND	ND	1.02
METHYL ETHYL KETONE (2-BUTANONE)	885	3.89	6.9	6.72
N-HEPTANE	394	ND	2.03	1.2
N-HEXANE	1040	ND	1.08	ND
O-XYLENE	71.7	ND	4.01	1.18
STYRENE	ND	ND	ND	0.996
TERT-BUTYL ALCOHOL	ND	3.94	ND	40.3
TETRAHYDROFURAN	7370	2.28	20.8	2.03
TOLUENE	558	2.32	4.97	2.9
TRICHLOROETHYLENE (TCE)	ND	ND	ND	4.66
TRICHLOROFLUOROMETHANE	ND	1.67	3.2	12.6
TOTAL VOCs	12457.9	70.191	234.943	327.389

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.

Definitions:
ND = Parameter not detected above laboratory detection limit.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

1050-1088 NIAGARA STREET SITE
BCP Site No. C915277
BUFFALO, NEW YORK

Parameters [1]	Class GA GWQS [2]	TMW-3								MW-3						
		11/9/14	2/12/15	5/1/17	11/15/17	5/12/18	4/6/19	11/2/19	7/2/20	2/12/15	5/8/17	11/15/17	5/12/18	4/6/19	11/2/19	7/2/20
Volatile Organic Compounds (VOCs) - ug/L				D							D	D	D	D	D	
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	0.83 J	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	**100 D**	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	**50**	ND	ND	ND	ND	ND	ND	ND	ND	7.6	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	**5**	ND	0.62 J	ND	ND	ND	ND	ND	ND	**54 D**	ND	ND	ND	ND	ND	ND
Acetone	**50**	ND	4.1 J	ND	ND	2.4 J	ND	3.8 J	5.8	21	ND	ND	ND	ND	ND	ND
Benzene	**1**	ND	ND	ND	ND	ND	ND	ND	ND	**67 D**	**7.9**	**10**	**31**	**39**	**28**	**32**
Carbon disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	0.37 J	ND	ND	ND	ND	ND	ND
Cyclohexane	**--**	75	66	2.8 J	0.9 J	0.47 J	ND	ND	ND	1000 D	70	100	160	260	210	350 D
Ethylbenzene	**5**	ND	1.5	ND	ND	ND	ND	ND	ND	**30 D**	ND	ND	ND	ND	1.7 J	2.2 J
Isopropylbenzene	**5**	**91**	**87**	**9.8 J**	1.3 J	1.4 J	0.72 J	ND	0.84 J	**200 D**	**36**	**44**	**27**	**60**	**60**	**57**
Methylcyclohexane	**--**	130	90	5.7 J	2.1 J	0.96 J	0.46 J	ND	ND	1200 D	170	210	210	230	160	210 D
Methylene Chloride	**5**	2.6 J,B	ND	ND	ND	ND	ND	ND	ND	**18**	ND	ND	ND	ND	ND	ND
n-Butylbenzene	**5**	**20**	**17**	ND	ND	ND	ND	ND	ND	**54 D**	ND	ND	ND	ND	ND	ND
n-Proplybenzene	**5**	**100**	**98**	**13 J**	ND	ND	ND	ND	ND	**200 D**	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**5**	ND	**21**	ND	ND	ND	ND	ND	ND	**50 D**	ND	ND	ND	ND	ND	ND
tert-butylbenzene	**5**	ND	2.8	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	1.9	ND	ND	ND	ND	ND	ND	**7.1**	ND	ND	2.4 J	4.2 J	4 J	4.2
Xylene, Total	**5**	ND	1.6 J	ND	ND	ND	ND	ND	ND	**13 J, D**	ND	2.1 J	3.6 J	**6.2 J**	**8.8 J**	**9.6**
Total VOCs	--	418.6	393.22	31.3	4.3	5.23	1.18	3.8	6.64	3039.2	283.9	366.1	434	599.4	472.5	665
VOCs Tentatively Identified Compounds (TICs)- ug/L																
Benzene, cyclopropyl-	**--**	--	160 NJ	ND	ND	ND	ND	ND	ND	29 NJ	ND	ND	ND	ND	ND	ND
Benzene, 1-methyl-2-(1-methylethyl)-	**--**	--	140 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene, 1-methyl-3-(1-methylethyl)-	**--**	--	200 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene, 1,2,3-trimethyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	50 NJ	ND	ND	ND	ND	ND	ND
Benzene, 1,2,3,4-tetramethyl-	**--**	--	49 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butane, 2-Methyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	57.2 NJ	ND
Cyclohexane	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93.4 NJ	ND	ND
Cyclohexane,1,1-dimethyl-	**--**	--	ND	ND	3.84 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane,1,1,3-trimethyl-	**--**	--	ND	ND	4.14 NJ	3.09 NJ	ND	ND	ND	ND	71.6 J	ND	ND	ND	ND	ND
Cyclopentane, methyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	83 NJ	ND	77.3 NJ	87.4 NJ	150 NJ	151 NJ	207 NJ
Cyclopentane, 1,3-dimethyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	89.2 NJ	ND	58.4 NJ	ND
1,4-Pentadiene, 3,3-dimethyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	26 NJ	ND	ND	ND	ND	ND	ND
Isopropylcyclobutane	**--**	--	130 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane, 1,3-dimethyl-,cis-	**--**	--	81 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane,4-methyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	21 NJ	ND	ND	ND	ND	ND	ND
Cyclohexane, ethyl-	**--**	--	54 NJ	16.6 NJ	ND	ND	ND	ND	ND	33 NJ	ND	ND	ND	ND	ND	ND
Cyclobutane, (1-methylethylidene)-	**--**	--	ND	ND	ND	ND	ND	ND	ND	30 NJ	ND	ND	ND	ND	ND	ND
Cyclohexene, 1-methyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	37 NJ	ND	ND	ND	ND	ND	ND
Indan, 1-methyl-	**--**	--	68 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H-Indene, 2,3-dihydro-2,2-dimethyl-	**--**	--	43 NJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	**--**	--	ND	ND	ND	ND	ND	ND	ND	19 NJ	ND	ND	ND	ND	ND	ND
1-Pentane	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	153 NJ	ND	ND
Pentane, 2-methyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	94.3 NJ	111 NJ	ND	ND	ND
Pentane, 3-methyl-	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	65.4 NJ	ND	62.8 NJ	55.2 NJ	ND
Indane	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	124 J	ND	ND	ND	ND	ND
Pentane	**--**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47 NJ	55.1 NJ	80.5 NJ
Sulfur Dioxide	**--**	--	ND	ND	ND	ND	ND	1 NJ	ND	ND	ND	ND	ND	ND	ND	ND
Unknown Benzene	**--**	--	ND	43.8 J	ND	4.57 J	1.31 J	ND	1.12 J	ND	ND	ND	ND	ND	ND	ND
Unknown Aromatic	**--**	--	ND	48.8 J	7.35 J	5.53 J	4.03 J	ND	1.07 J	ND	62.9 J	39.7 J	77.3 J	124.9 J	60 J	154.5
Unknown Cyclohexane	**--**	--	ND	21.2 J	10.84 J	ND	4.91 J	ND	ND	ND	164 J	141.6 J	159 J	90.7 J	68.5 J	264.2
Unknown Cycloalkane	**--**	--	ND	ND	7.75 J	8.17 J	1.1 J	ND	ND	ND	ND	180.1 J	238.1 J	174.4 J	71.9 J	ND
Unknown	**--**	--	52 J	18.4 J	3.41 J	5.16 J	1.29 J	1.08 J	ND	45 J	508.8 J	98.4 J	164.1 J	ND	237.8 J	368.9
Total TICs	--	--	977	149	37.3	26.5	12.6	2.08	2.19	373	931	697	926	896	815	1075
Semivolatile Organic Compounds (SVOCs) - ug/L																
2-Methylnaphthalene	**--**	44	--	--	--	ND	ND	0.07 J	0.06 J	ND	--	--	0.04 J	0.06 J	0.1 J	0.07 J
Acenaphthene	**20**	ND	--	--	--	ND	ND	0.03 J	ND	ND	--	--	0.07 J	0.13	0.12	0.49
Acenaphthylene	**--**	ND	--	--	--	ND	ND	ND	0.03 J	ND	--	--	ND	0.02 J	ND	ND
Acetophenone	**--**	27	--	--	--	ND	ND	ND	ND	86 J	--	--	ND	ND	ND	ND
Anthracene	**50**	0.7 J	--	--	--	0.02 J	ND	0.1 J	0.05 J	ND	--	--	0.05 J	0.06 J	0.06 J	0.05 J
Benzaldehyde	**--**	ND	--	--	--	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Benzo(a)anthracene	**0.002**	**0.46 J**	--	--	--	ND	ND	**0.46**	**0.2**	ND	--	--	**0.09 J**	**0.1 J**	**0.12**	**0.12**
Benzo(a)pyrene	**ND**	**0.66 J**	--	--	--	**0.03 J**	**0.04 J**	**0.49**	**0.27**	ND	--	--	**0.08 J**	**0.07 J**	**0.08 J**	**0.09 J**
Benzo(b)fluoranthene	**0.002**	**1.5 J**	--	--	--	**0.04 J**	**0.04 J**	**0.77**	**0.33**	ND	--	--	**0.13**	**0.08 J**	**0.13**	**0.13**
Benzo(ghi)perylene	**--**	0.67 J	--	--	--	0.02 J	0.03 J	0.48 J	0.31	ND	--	--	0.04 J	0.05 J	0.05 J	0.06 J
Benzo(k)fluoranthene	**0.002**	ND	--	--	--	**0.02 J**	**0.04 J**	**0.22**	**0.14**	ND	--	--	**0.05 J**	**0.07 J**	**0.04 J**	**0.06 J**
Benzoic acid	**--**	ND	--	--	--	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	**5**	**6.7 B**	--	--	--	**8.2 B**	ND	3.6	**7.8**	ND	--	--	**7.2 B**	3.6	2.6 J	2 J
Butyl benzyl phthalate	**50**	ND	--	--	--	ND	ND	ND	7.9	ND	--	--	ND	ND	ND	ND
Carbazole	**--**	ND	--	--	--	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Chrysene	**0.002**	**0.49 J**	--	--	--	ND	**0.04 J**	**0.44**	**0.35**	ND	--	--	**0.13**	ND	**0.1**	**0.12**
Dibenzo(a,h)anthracene	**--**	ND	--	--	--	ND	ND	0.11	0.05 J	ND	--	--	ND	0.01 J	0.02 J	ND
Dibenzofuran	**--**	0.95 J	--	--	--	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Diethyl phthalate	**50**	ND	--	--	--	0.73 J	ND	1.6 J	ND	ND	--	--	ND	ND	ND	ND
Di-n-butylphthalate	**50**	ND	--	--	--	ND	ND	ND	ND	ND	--	--	ND	2.6 J	ND	ND
Fluoranthene	**50**	1.3 J	--	--	--	0.07 J	0.07 J	0.73 J	0.4	ND	--	--	0.23	0.22	0.22	0.22
Fluorene	**50**	1.2 J	--	--	--	0.02 J	ND	0.05 J	0.03 J	ND	--	--	0.06 J	0.07 J	0.08 J	0.08 J
Indeno(1,2,3-cd)pyrene	**0.002**	**0.64 J**	--	--	--	**0.02 J**	**0.03 J**	**0.48**	**0.22**	ND	--	--	**0.05 J**	**0.04 J**	**0.07 J**	**0.06 J**
Isophorone	**50**	37	--	--	--	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Naphthalene	**10**	9.6	--	--	--	ND	ND	0.09 J	0.06 J	ND	--	--	ND	0.59	0.58	ND
Pentachlorophenol	**1**	--	--	--	--	ND	ND	ND	0.32 J	ND	--	--	0.11 J	ND	ND	ND
Phenanthrene	**50**	2.5 J	--	--	--	0.07 J	0.05 J	0.41	0.29	ND	--	--	0.2	0.24	0.21	0.18
Phenol	**1**	ND	--	--	--	ND	ND	ND	ND	ND	--	--	**1.6 J**	ND	**1.3 J**	ND
Pyrene	**50**	1 J	--	--	--	0.06 J	0.07 J	0.66	0.35	ND	--	--	0.22	0.22	0.21	0.23
Total SVOCs	**--**	136.37	--	--	--	9.3	0.41	10.79	19.16	86	--	--	10.35	8.23	6.09	3.96
SVOCs Tentatively Identified Compounds (TICs)- ug/L																
1-Phenyl-1-butene	**--**	--	--	--	--	ND	ND	ND	ND	230 JN	--	--	ND	ND	ND	ND
Aldol Condensates	**--**	--	--	--	--	34 J	188.3 J	14.1 J	ND	ND	--	--	ND	375.3 J	ND	ND
Benzene, 1,2,4,-trimethyl-	**--**	--	--	--	--	ND	ND	ND	ND	280 JN	--	--	ND	ND	ND	ND
Benzene, 1-ethyl-2-methyl-	**--**	--	--	--	--	ND	ND	ND	ND	180 JN	--	--	ND	ND	ND	ND
Benzene, 1-methyl-2-(1-methylethyl)-	**--**	--	--	--	--	ND	ND	ND	ND	220 JN	--	--	ND	ND	ND	ND
Benzene, 1,4-diethyl-	**--**	--	--	--	--	ND	ND	ND	ND	180 JN	--	--	ND	ND	ND	ND
Benzene, propyl-	**--**	--	--	--	--	ND	ND	ND	ND	150 JN	--	--	ND	ND	ND	ND
Cyclohexane, 1,1,2,3-tetramethyl-	**--**	--	--	--	--	ND	ND	ND	ND	170 JN	--	--	ND	ND	ND	ND
Cyclohexane, 1,1,3-trimethyl-	**--**	--	--	--	--	ND	ND	ND	ND	120 JNB	--	--	ND	ND	ND	ND
Cyclohexane, ethyl-	**--**	--	--	--	--	ND	ND	ND	ND	ND	--	--	ND	ND	34.9 NJ	ND
Cyclohexane, propyl-	**--**	--	--	--	--	ND	ND	ND	ND	ND	--	--	ND	ND	29.2 NJ	ND
Indane	**--**	--	--	--	--	ND	ND	ND	ND	200 JN	--	--	ND	ND	97.5 NJ	115 NJ
Octane, 2,6-dimethyl-	**--**	--	--	--	--	ND	ND	ND	ND	150 JN	--	--	ND	ND	ND	ND
Octane, 3-methyl-	**--**	--	--	--	--	ND	ND	ND	ND	140 JN	--	--	ND	ND	ND	ND
Unknown Alcohol	**--**	--	--	--	--	ND	ND	ND	128.8 J	ND	--	--	ND	ND	ND	ND
Unknown Alkane	**--**	--	--	--	--	ND	ND	31.41 J	ND	ND	--	--	40.6 J	271.9 J	117.4 J	201.9 J
Unknown Benzene	**--**	--	--	--	--	ND	ND	ND	ND	ND	--	--	63.1 J	42.8 J	60 J	ND
Unknown Cycloalkane	**--**	--	--	--	--	ND	ND	ND	ND	ND	--	--	13.7 J	ND	ND	86.5 J
Unknown Cyclohexane	**--**	--	--	--	--	ND	ND	ND	ND	ND	--	--	ND	92.2 J	138.3 J	ND
Unknown Organic Acid	**--**	--	--	--	--	161.49 J	1.45 J	42.1 J	94.7 J	ND	--	--	ND	ND	ND	ND
Unknown Phenol	**--**	--	--	--	--	ND	ND	2.84 J	ND	ND	--	--	ND	ND	ND	ND
Unknown Siloxane	**--**	--	--	--	--	ND	ND	ND	12.2 J	ND	--	--	ND	ND	ND	ND
Unknown	**--**	--	--	--	--	9.99 J	12.21 J	76.61 J	337.1 J	1200 J	--	--	216.4 J	237.7 J	117.5 J	249.1 J
Total TICs	**--**	--	--	--	--	205	202	167	573	3220	--	--	334	1020	595	653

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 TOGS 1.1.1 Class GA Groundwater Quality Standards.
3. MW-5 was not sampled during May 2017 sampling due to damage to the well. MW-4 and MW-5R has have been routinely dry.

Qualifiers:

D = Dilution required due to high concentration of target analyte above the laboratory reporting limit.
ND = Parameter not detected above laboratory detection limit.
"--" = Sample not analyzed for parameter or no GWQS available for the parameter.
J = Estimated Value - Below calibration range
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.
B = Compund was found in the blank and sample.
BOLD = Result exceeds GWQS.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

1050-1088 NIAGARA STREET SITE
BCP Site No. C915277
BUFFALO, NEW YORK

Parameters [1]	Class GA GWQS[2]	MW-4			MW-5R	MW-6					
		2/12/15	5/8/17	11/15/2017 - 7/2/2020	11/15/2017 - 7/2/2020	11/9/14	11/15/17	5/12/18	4/6/19	11/2/19	7/2/20
Volatile Organic Compounds (VOCs) - ug/L				DRY	DRY						
1,1 Dichloroethane	**5**	0.59 J	ND	--	--	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	**5**	**12 D**	ND	--	--	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	**5**	**9.2 J, D**	ND	--	--	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	6.5 J	ND	--	--	ND	ND	ND	ND	ND	ND
2-Hexanone	**50**	4.9 J	ND	--	--	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	**5**	2.4	ND	--	--	ND	ND	ND	ND	ND	ND
Acetone	**50**	17	5.4	--	--	ND	ND	ND	ND	2.5 J	ND
Benzene	**1**	**370 D**	**66**	--	--	ND	ND	ND	ND	ND	ND
Carbon disulfide	**60**	1	ND	--	--	ND	ND	ND	ND	ND	ND
Cyclohexane	**--**	240 D	33	--	--	ND	ND	ND	ND	ND	ND
Ethylbenzene	**5**	**6.2**	0.75 J	--	--	ND	ND	ND	ND	ND	ND
Isopropylbenzene	**5**	**120 D**	**9**	--	--	ND	ND	ND	ND	ND	ND
Methyl Acetate	**--**	ND	ND	--	--	ND	ND	ND	ND	0.53 J	ND
Methylcyclohexane	**--**	240 D	14	--	--	ND	ND	ND	ND	ND	ND
Methylene Chloride	**5**	5	ND	--	--	ND	ND	ND	ND	ND	ND
n-Butylbenzene	**5**	**23 D**	ND	--	--	ND	ND	ND	ND	ND	ND
n-Proplybenzene	**5**	**130 D**	ND	--	--	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	**5**	**25 D**	ND	--	--	ND	ND	ND	ND	ND	ND
tert-butylbenzene	**5**	3	ND	--	--	ND	ND	ND	ND	ND	ND
Toluene	**5**	**12 D**	1.2 J	--	--	ND	ND	ND	ND	ND	ND
Xylene, Total	**5**	**19 J, D**	1 J	--	--	ND	ND	ND	ND	ND	ND
Total VOCs	--	1263.79	130.35	--	--	--	--	--	--	3.03	0
VOCs Tentatively Identified Compounds (TICs)- ug/L											
Butane, 2-Methyl-	**--**	ND	2.22 NJ	--	--	--	--	ND	ND	ND	ND
Benzene, cyclopropyl-	**--**	150 NJ	ND	--	--	--	--	ND	ND	ND	ND
Benzene, 1-methyl-2-(1-methylethyl)-	**--**	120 NJ	ND	--	--	--	--	ND	ND	ND	ND
Cyclohexane,1,1,3-trimethyl-	**--**	ND	2.46 NJ	--	--	--	--	ND	ND	ND	ND
Cyclopentane	**--**	48 NJ	ND	--	--	--	--	ND	ND	ND	ND
Cyclopentane, methyl-	**--**	81 NJ	14.9 NJ	--	--	--	--	ND	ND	ND	ND
Cyclohexane,4-methyl-	**--**	ND	4.35 NJ	--	--	--	--	ND	ND	ND	ND
Cyclohexane, ethyl-	**--**	56 NJ	ND	--	--	--	--	ND	ND	ND	ND
Cyclobutane, (1-methylethylidene)-	**--**	39 NJ	ND	--	--	--	--	ND	ND	ND	ND
Cyclohexene, 3-methyl-	**--**	66 NJ	ND	--	--	--	--	ND	ND	ND	ND
Cyclohexene, 4-methyl-	**--**	47 NJ	ND	--	--	--	--	ND	ND	ND	ND
Indan, 1-methyl-	**--**	194 NJ	ND	--	--	--	--	ND	ND	ND	ND
Indane	**--**	ND	26 NJ	--	--	--	--	ND	ND	ND	ND
Pentane	**--**	ND	1.79 NJ	--	--	--	--	ND	ND	ND	ND
Unknown Benzene	**--**	ND	11.92 J	--	--	--	--	ND	ND	ND	ND
Unknown Aromatic	**--**	ND	13.58 J	--	--	--	--	ND	ND	ND	ND
Unknown Cycloalkane	**--**	ND	4.06 J	--	--	--	--	ND	ND	ND	ND
Unknown	**--**	ND	17.01 J	--	--	--	--	1.41 J	ND	ND	ND
Total TICs	**--**	801	98.3 J	--	--	--	--	1.41	ND	ND	ND
Semi-volatile Organic Compounds (SVOCs) - ug/L											
2-Methylnaphthalene	**--**	0.94 J	--	--	--	ND	--	ND	ND	0.1 J	ND
Acetophenone	**--**	6	--	--	--	ND	--	ND	ND	ND	ND
Benzaldehyde	**--**	ND	--	--	--	0.54 J,B	--	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	**5**	ND	--	--	--	4.5 J,B	--	**6.4 B**	ND	ND	ND
Chrysene	**0.002**	ND	--	--	--	ND	--	ND	**0.02 J**	ND	ND
Fluorene	**50**	0.7 J	--	--	--	ND	--	ND	0.03 J	ND	ND
Phenanthrene	**50**	0.63 J	--	--	--	ND	--	ND	0.07 J	ND	ND
Total SVOCs	**--**	8.27	--	--	--	5.04	--	6.4	0.12	0.1	ND
SVOCs Tentatively Identified Compounds (TICs)- ug/L											
1h-Indene, 2,3-dihydro-5-methyl-	--	17 NJ	--	--	--	--	--	ND	ND	ND	ND
Aldol Condensates	--	ND	--	--	--	--	--	31.7 J	226.5 J	10.7 J	ND
Benzene, 1-ethyl-2,3-dimethyl-	--	52 NJ	--	--	--	--	--	ND	ND	ND	ND
Benzene, (1-methylethyl)-	--	31 NJ	--	--	--	--	--	ND	ND	ND	ND
Benzene, (1-methylpropyl)-	--	15 NJ	--	--	--	--	--	ND	ND	ND	ND
Benzene, 1,2,4,5-tetramethyl-	--	38 NJ	--	--	--	--	--	ND	ND	ND	ND
Benzene, 1,3-diethyl-	--	16 NJ	--	--	--	--	--	ND	ND	ND	ND
Benzene, 1,4-diethyl-	--	23 NJ	--	--	--	--	--	ND	ND	ND	ND
Benzene, propyl-	--	30 NJ	--	--	--	--	--	ND	ND	ND	ND
Erucylamide		19 NJB	--	--	--	--	--	ND	ND	ND	ND
Indane		80 NJ	--	--	--	--	--	ND	ND	ND	ND
n-Hexadecanoic acid		16 NJB	--	--	--	--	--	ND	ND	ND	ND
Unknown Organic Acid	--	ND	--	--	--	--	--	ND	1.93 J	1.6 J	2.62 J
Unknown	--	318 JB	--	--	--	--	--	ND	1.64 J	2.4 J	17.98 J
Total TICs	--	655	--	--	--	--	--	31.7	230	14.7	20.6

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 TOGS 1.1.1 Class GA Groundwater Quality Standards.
3. MW-5 was not sampled during May 2017 sampling due to damage to the well. MW-4 and MW-5R has have been routinely dry.

Qualifiers:

D = Dilution required due to high concentration of target analyte above the laboratory reporting limit.
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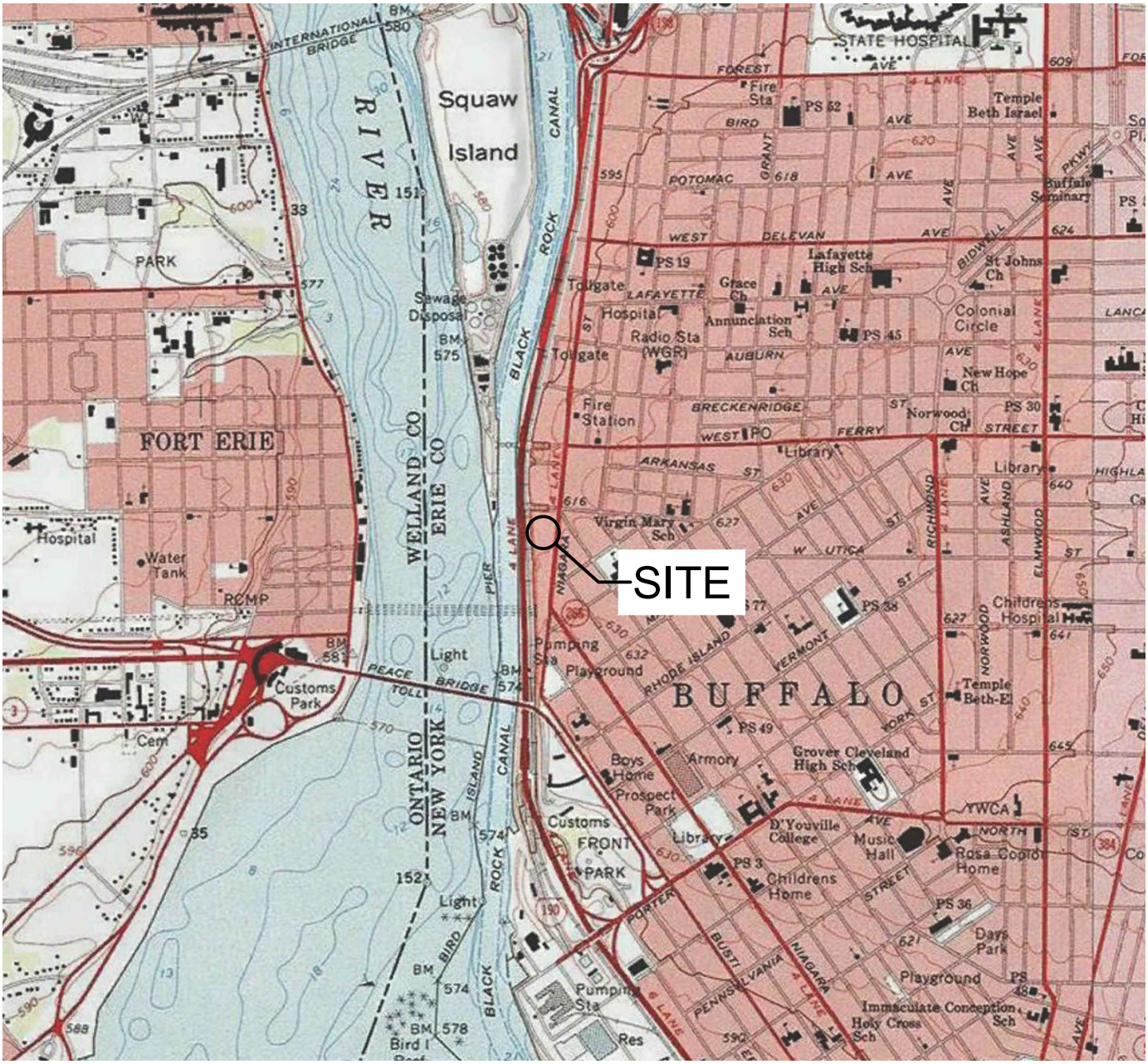
"--" = Sample not analyzed for parameter or no GWQS available for the parameter.
J = Estimated Value - Below calibration range
NJ = Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
B = Compund was found in the blank and sample.
BOLD = Result exceeds GWQS.

FIGURES

FIGURE 1

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\2019-2020\Figure 1 - Site Location and Vicinity Map.dwg



N

2000' 0' 2000' 4000'

SCALE: 1 INCH = 2000 FEET
SCALE IN FEET
(approximate)

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

PROJECT NO.: 0136-013-005

DATE: JULY 2020

DRAFTED BY: CMS

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK

PREPARED FOR

9271 GROUP, LLC

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\2019-2020\Figure 2 - Site Plan (Aerial).dwg

LEGEND:

BCP SITE BOUNDARY

PARCEL BOUNDARY

NOTE:

- PARCEL INFORMATION PER SURVEY BY KHEOPS ARCHITECTURE, ENGINEERING & SURVEY, DPC REVISED MAY 16, 2017.
- ERIE COUNTY REAL ESTATE ONLY REVISES TAX MAPS AND ISSUES S.B.L. NUMBERS BI-ANNUALLY, AND AT THE TIME OF THIS REPORT, THE NEWLY RECONFIGURED PARCELS HAVE NOT BEEN UPDATED BY ERIE COUNTY. WHEN ERIE COUNTY UPDATES THE DATABASE, A COPY OF THE PARCEL REPORTS WILL BE PROVIDED TO THE DEPARTMENT.
- AERIAL IMAGE PROVIDED BY GOOGLE EARTH DATED SEPTEMBER 2018.

N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: JULY 2020
DRAFTED BY: CMS

TURNKEY ENVIRONMENTAL RESTORATION, LLC

IN ASSOCIATION WITH

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

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

JOB NO.: 0136-013-005

SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT

1050-1088 NIAGARA STREET
BCP SITE NO. C915277
BUFFALO, NEW YORK

PREPARED FOR
9271 GROUP, LLC

FIGURE 2

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\2019-2020\Figure 3 - Cover System Layout.dwg

LEGEND:

- BCP PROPERTY BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDING
- SOIL COVER AREA
- STONE COVER AREA
- CONCRETE AREA

N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: JULY 2020
DRAFTED BY: CMS

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TURNKEY ENVIRONMENTAL RESTORATION, LLC

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

JOB NO.: 0136-013-005

COVER SYETM LAYOUT

PERIODIC REVIEW REPORT
1050-1088 NIAGARA STREET
BCP SITE NO. C915277
BUFFALO, NEW YORK
PREPARED FOR
9271 GROUP, LLC

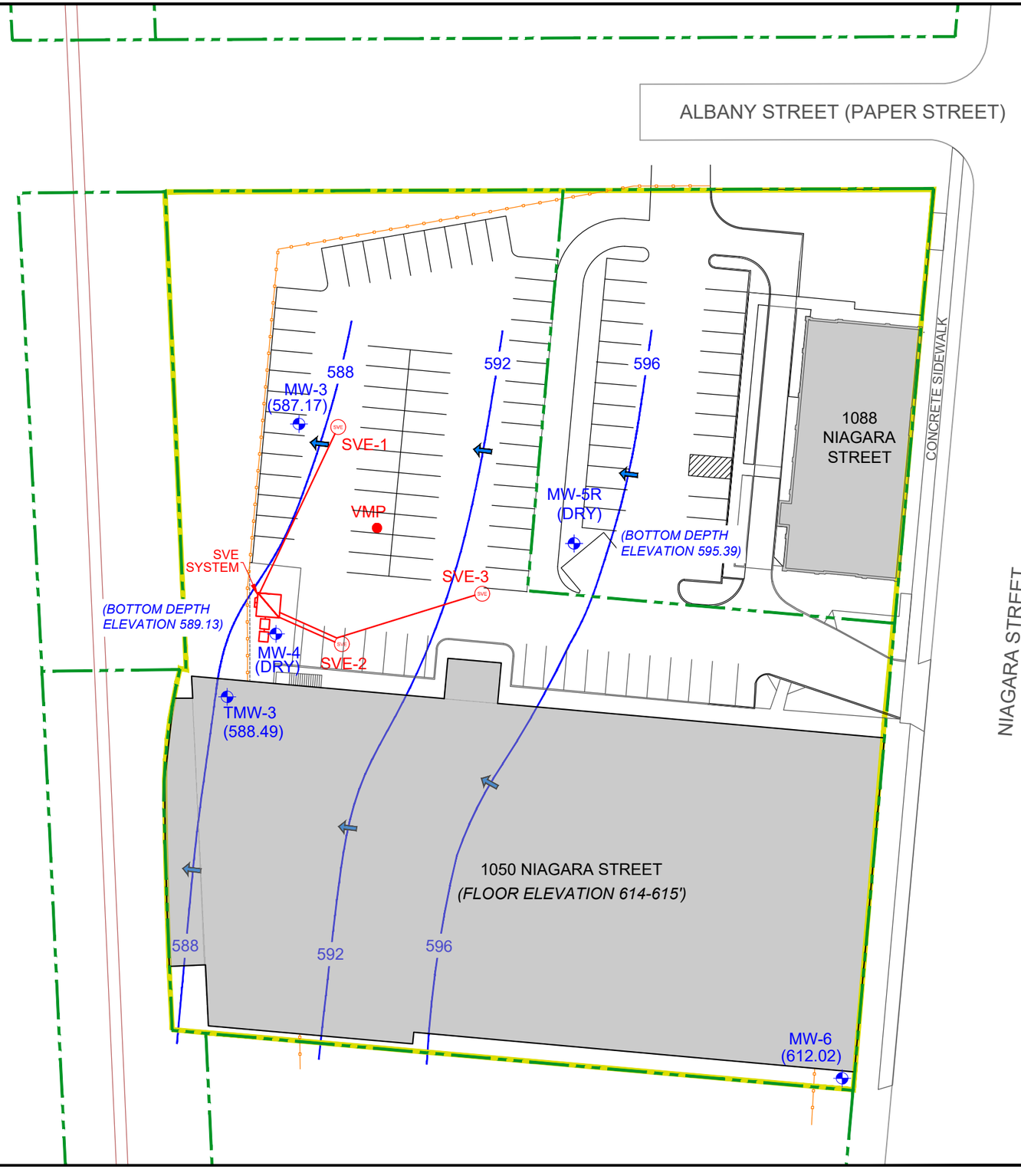
FIGURE 3

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\2019-2020\Figure 4A Groundwater and SVE Well Network_May 2018.dwg

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDINGS ONSITE
- MW-1 — MONITORING WELL
- SVE-3 — SOIL VAPOR EXTRACTION WELL
- VMP — VACUUM MONITORING POINT
- 596 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION CONTOUR

NOTE: ELEVATIONS PER FIELD DATA TAKEN MAY 12, 2018



N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: JULY 2020
DRAFTED BY: CMS

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TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0136-013-005

GROUNDWATER AND SVE WELL NETWORK (MAY 2018)

PERIODIC REVIEW REPORT

1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK

PREPARED FOR
9271 GROUP, LLC

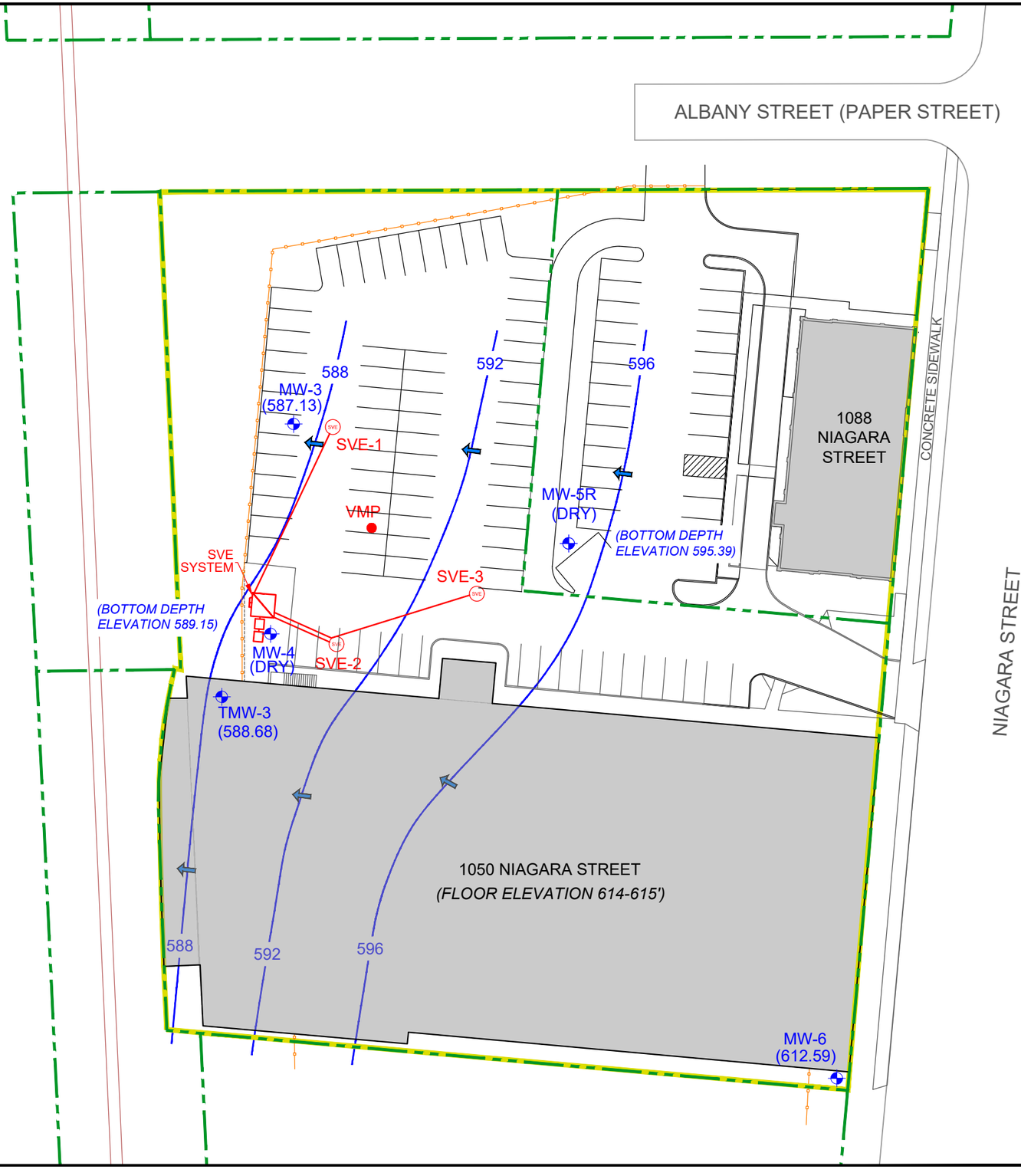
FIGURE 4A

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\2019-2020\Figure 4B; Groundwater and SVE Well Network_April 2019.dwg

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDINGS ONSITE
- MW-1 — MONITORING WELL
- SVE-3 — SOIL VAPOR EXTRACTION WELL
- VMP — VACUUM MONITORING POINT
- 596 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION CONTOUR

NOTE: ELEVATIONS PER FIELD DATA TAKEN APRIL 9, 2019



N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: MAY 2019
DRAFTED BY: CMS

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

JOB NO.: 0136-013-005

GROUNDWATER AND SVE WELL NETWORK

PERIODIC REVIEW REPORT
1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK
PREPARED FOR
9271 GROUP, LLC

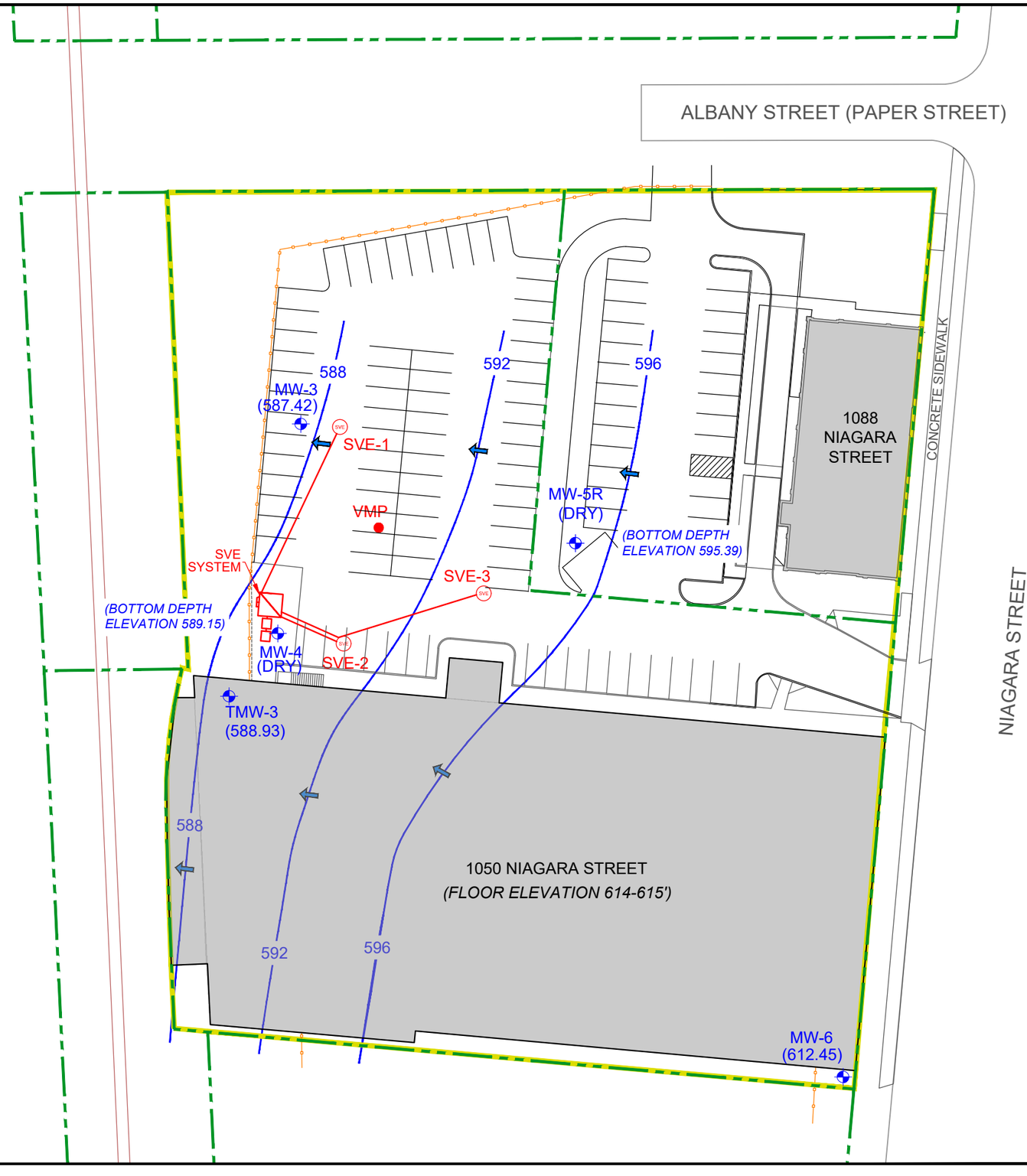
FIGURE 4B

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\2019-2020\Figure 4C Groundwater and SVE Well Network_November 2019.dwg

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDINGS ONSITE
- MW-1 — MONITORING WELL
- SVE-3 — SOIL VAPOR EXTRACTION WELL
- VMP — VACUUM MONITORING POINT
- 596 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION CONTOUR

NOTE: ELEVATIONS PER FIELD DATA TAKEN NOVEMBER 2, 2019



N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: JULY 2020
DRAFTED BY: CMS

TurnKey Environmental Restoration, LLC

Benchmark Environmental Engineering & Science, PLLC
2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

JOB NO.: 0136-013-005

GROUNDWATER AND SVE WELL NETWORK (NOVEMBER 2019)

PERIODIC REVIEW REPORT

1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK

PREPARED FOR
9271 GROUP, LLC

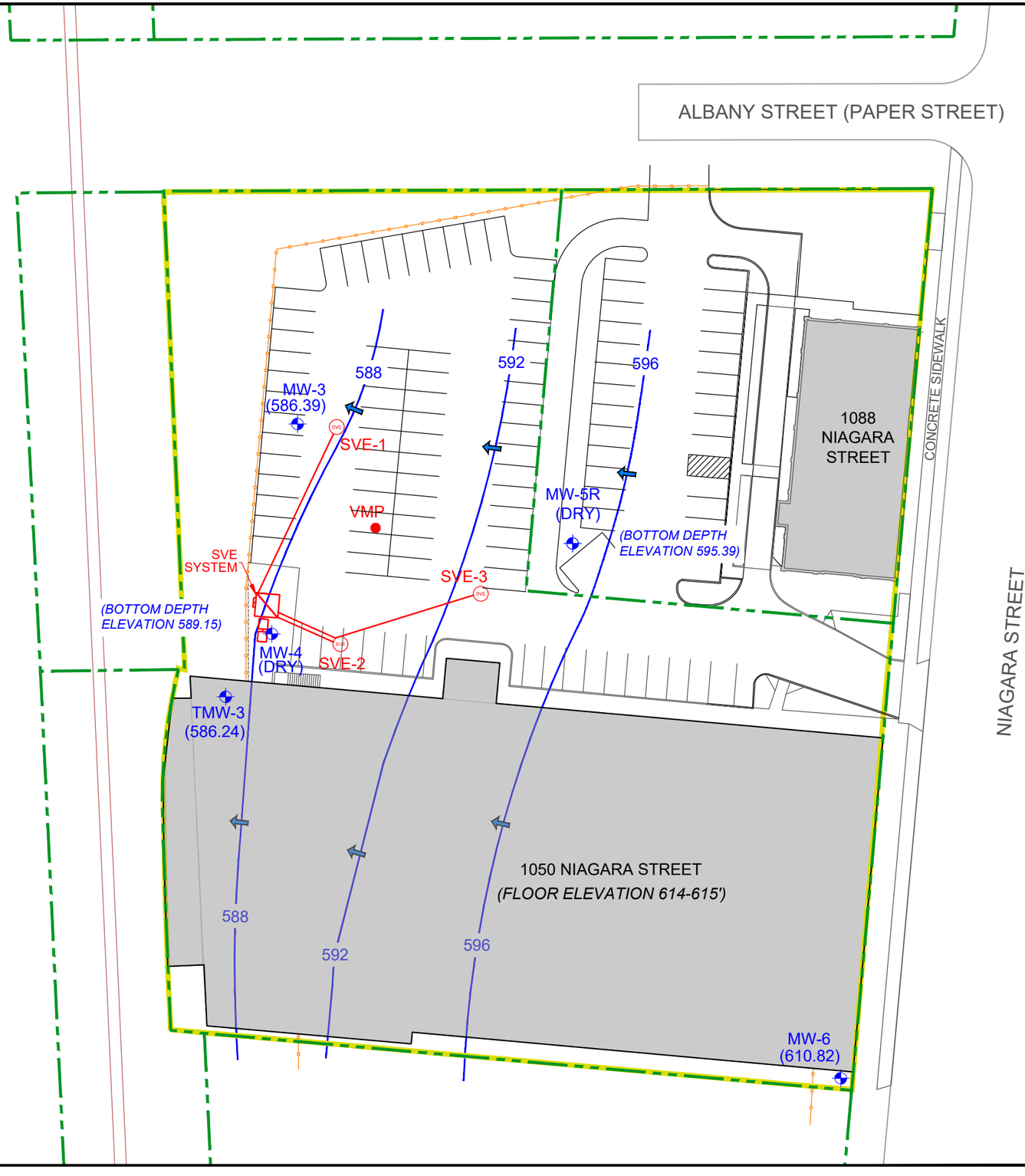
FIGURE 4C

F:\CAD\TurnKey\Ellicott Development\1050-1088 Niagara St\PRR\2019-2020\Figure 4D; Groundwater and SVE Well Network_July 2020.dwg

LEGEND:

- BCP SITE BOUNDARY
- PARCEL BOUNDARY
- FENCE
- RAILROAD
- BUILDINGS ONSITE
- MW-1 — MONITORING WELL
- SVE-3 — SOIL VAPOR EXTRACTION WELL
- VMP — VACUUM MONITORING POINT
- 596 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER ELEVATION CONTOUR

NOTE: ELEVATIONS PER FIELD DATA TAKEN JULY 9, 2020



N

50' 0' 50' 100'

SCALE: 1 INCH = 50 FEET
SCALE IN FEET
(approximate)

DATE: JULY 2020
DRAFTED BY: CMS

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

JOB NO.: 0136-013-005

GROUNDWATER AND SVE WELL NETWORK (JULY 2020)

PERIODIC REVIEW REPORT

1050-1088 NIAGARA STREET SITE
BCP SITE NO. C915277
BUFFALO, NEW YORK

PREPARED FOR
9271 GROUP, LLC

FIGURE 4D

APPENDIX A

NYSDEC CERTIFICATION AND NOTIFICATION FORMS

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. **C915277**

Site Name 1050-1088 Niagara Street Site

Site Address: 1050-1088 Niagara Street Zip Code: 14213
City/Town: Buffalo
County: Erie
Site Acreage: 2.700

Reporting Period: April 29, 2019 to July 31, 2020

	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.		
5. Is the site currently undergoing development?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, 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

Box 2A

	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.

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. C915277 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
99.49-1-15	9271 Group, LLC	
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

- Prohibition against well installation (or use of gw without treatment)
- Compliance with the Site Management Plan
- Compliance with the Soils Management Plan
- Annual monitoring of groundwater
- Highest land use is restricted to restricted residential

99.49-6-10	9271 Group, LLC	
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan IC/EC Plan

- Prohibition against well installation (or use of gw without treatment)
- Compliance with the Site Management Plan
- Compliance with the Soils Management Plan
- Annual monitoring of groundwater
- Highest land use is restricted to restricted residential

99.49-6-2	9271 Group, LLC	
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan IC/EC Plan Building Use Restriction Monitoring Plan

- Prohibition against well installation (or use of gw without treatment)
- Compliance with the Site Management Plan
- Compliance with the Soils Management Plan
- Annual monitoring of groundwater
- Highest land use is restricted to restricted residential

Box 4

Description of Engineering Controls

Parcel	Engineering Control
99.49-1-15	
	Cover System Air Sparging/Soil Vapor Extraction Monitoring Wells

- Cover consisting of hardscape or clean soil
- In-situ plume reduction measure

99.49-6-10	
	Cover System

- Cover consisting of hardscape or clean soil
- In-situ plume reduction measure

99.49-6-2	
	Cover System Monitoring Wells

Parcel	Engineering Control
• Cover consisting of hardscape or clean soil • In-situ plume reduction measure	

Box 5

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. C915277

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 William Paladino (print name) at 9271 Group, LLC (print business address),

am certifying as Authorized Member (Owner or Remedial Party)

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

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

8/12/20
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 Thomas H. Forbes at 2558 Hamburg Turnpike, Buffalo, NY 14218,
print name print business address

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

8-21-20

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: View of the existing asphalt parking area/cover system – facing southeast

Photo 2: View of the existing asphalt parking area/cover system – facing south

Photo 3: View of the asphalt cover and stone cover transition area with the existing SVE trailer (right) – facing south

Photo 4: View of a typical transition area of asphalt parking/cover system and stabilized vegetated cover along the northern portion of the Site – facing west

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: View of vegetated cover and drive-thru area along the northern portion of the Site. Minor erosion previously noted has been stabilized – facing northeast

Photo 6: View of landscaping and drive-thru area – facing northeast

Photo 7: View of the stabilized bank along the western portion of the Site – facing northeast

Photo 8: View of the stabilized bank north of the existing 1050 Niagara Street building. Minor erosion previously observed has been stabilized – east

SITE PHOTOGRAPHS

Photo 9:

Photo 10:

Photo 11:

Photo 12:

Photo 9: View of landscaping at Site entrance – facing southwest

Photo 10: View of landscaping at Site entrance – facing west

Photo 11: View of the stabilized bank and stone cover south of the existing 1050 Niagara Street building – facing east

Photo 12: View of the western Site boundary – facing north

APPENDIX C

SVE SYSTEM LOGS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

1050-1088 NIAGARA STREET SITE
SVE SYSTEM LOG
SHEET 1 OF 2

Date	Time	Inspector's Initials	System Running on Arrival? (Y or N)	Intake Vacuum at Knockout (in. WC)	Air Flow Gauge (in.WC)	Velocity (FPS)	Approx Flow CFM	Pressure Gauge (exhaust) (in. WC)	Influent PID Reading (PPM)	Effluent PID Reading (PPM)	Greased Blower? (Y or N)	Condensate Water Present (Y or N)
9/6/2017	16:11	BMG	Y	90	1	3976	195	3	0.4	0	Y	N
9/8/2017	9:00	BMG	N	70	0.62	3080	151	1.8	0	0	N	N
9/12/2017	8:00	BMG	Y	70	0.6	3080	151	1.8	0.1	0	N	N
9/20/2017	15:45	BMG	Y	70	0.62	3080	151	1.8	0	0	N	N
9/25/2017	12:00	NAS	Y	70	0.58	3080	151	1.8	0	0	Y	N
10/30/2017	14:26	NAS	Y	70	0.51	3080	151	1.8	0	0	N	N
11/2/2017	8:00	NAS	N	79	0.1	1129	55.81	0.01	2.2	0	N	N
11/2/2017	10:50	NAS	Y	70	0.1	1257	61	0.01	16.7	0	N	N
11/3/2017	10:00	NAS	Y	84	0.1	1257	61	0.01	0	0	N	N
11/6/2017	15:25	NAS	N	66	0.1	1257	61	0.01	0	0	N	N
11/7/2017	8:00	NAS	Y	67	0.2	1778	87.25	0.01	0	0	N	N
11/22/2017	15:15	NAS	Y	65	0.1	1257	61	0.01	0	0	N	N
11/27/2017	13:00	CMS	Y	70	0.1	1124	55	0.01	0	0	N	N
12/16/2017	11:00	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
12/20/2017	13:23	CMS	Y	74	0.1	1124	55	0.01	0.1	0	N	N
1/9/2018	12:16	NAS	Y	78	0.1	1124	55	0.01	0	0	Y	N
1/18/2018	14:16	NAS	Y	76	0.1	1124	55	0.02	0.2	0	N	N
2/9/2018	13:05	NAS	N	79	0.1	1257	61	0.01	0	0	Y	N
2/21/2018	9:00	NAS	N	61	0.1	1257	61	0.01	0	0	Y	N
3/14/2018	8:00	NAS	N	20	0.1	1257	61	0.01	0	0	Y	N
3/14/2018	9:00	NAS	Y	44	0.1	1257	61	0.01	0	0	N	N
3/15/2018	15:15	NAS	Y	45	0.1	1257	61	0.01	0	0	N	N
3/21/2018	14:45	CMS	Y	65	0.1	1257	61	0.01	0	0	N	N
3/30/2018	15:15	CMS	Y	64	0.1	1257	61	0.01	0	0	Y	N
4/18/2018	15:10	CMS	Y	25	0.1	1257	61	0.01	0	0	N	N
4/30/2018	16:15	CMS	Y	27	0.1	1257	61	0.01	0	0	Y	N
5/13/2018	12:30	CMS	Y	27	0.1	1257	61	0.01	0	0	N	N
5/30/2018	15:00	CMS	Y	41	0.1	1257	61	0.01	0	0	N	N
6/18/2018	15:45	CMS	Y	41	0.1	1257	61	0.01	0	0	Y	N
6/28/2018	16:05	CMS	Y	41	0.1	1257	61	0.01	0	0	N	N
7/12/2018	16:30	CMS	N	41	0.1	1257	61	0.01	0	0	Y	N
7/19/2018	8:15	CMS	Y	26	0.1	1257	61	0.01	0	0	N	N
7/31/2018	16:15	CMS	Y	35	0.1	1257	61	0.01	0	0	Y	N
8/4/2018	10:30	CMS	Y	50	0.1	1257	61	0.01	0	0	N	N
9/4/2018	16:40	CMS	Y	45	0.1	1257	61	0.01	0	0	Y	N
9/20/2018	9:55	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
10/11/2018	16:11	CMS	Y	57	0.1	1257	61	0.01	0	0	N	N
10/20/2018	10:15	CMS	Y	55	0.1	1257	61	0.01	0	0	N	N
10/26/2018	9:15	CMS	Y	56	0.1	1257	61	0.01	0	0	Y	N
11/2/2018	8:00	CMS	Y	61	0.1	1257	61	0.01	0	0	N	N
11/5/2018	16:15	CMS	Y	65	0.1	1257	61	0.01	0	0	N	N
11/16/2018	16:30	CMS	Y	59	0.1	1257	61	0.01	0	0	N	N
11/17/2018	9:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
11/21/2018	17:00	CMS	Y	57	0.1	1257	61	0.01	0	0	N	N
11/27/2018	17:00	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
12/5/2018	17:00	CMS	N	54	0.1	1257	61	0.01	0	0	Y	N
12/6/2018	17:00	CMS	Y	62	0.1	1257	61	0.01	0	0	N	N
12/13/2018	17:00	CMS	Y	63	0.1	1257	61	0.01	0	0	N	N
12/17/2018	17:00	CMS	Y	61	0.1	1257	61	0.01	0	0	Y	N
12/20/2018	17:00	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
12/22/2018	10:30	CMS	Y	61	0.1	1257	61	0.01	0	0	N	N
12/27/2018	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
1/2/2019	16:30	CMS	Y	63	0.1	1257	61	0.01	0	0	Y	N
1/4/2019	16:30	CMS	Y	58	0.1	1257	61	0.01	0	0	N	N
1/7/2019	8:00	CMS	N	52	0.1	1257	61	0.01	0	0	Y	N
1/8/2019	8:00	CMS	Y	63	0.1	1257	61	0.01	0	0	N	N
1/14/2019	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
1/23/2019	17:00	CMS	Y	59	0.1	1257	61	0.01	0	0	Y	N
1/26/2019	9:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
1/29/2019	17:00	CMS	Y	58	0.1	1257	61	0.01	0	0	N	N

2/4/2019	10:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
2/7/2019	17:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
2/15/2019	16:30	CMS	Y	58	0.1	1257	61	0.01	0	0	N	N
2/18/2019	10:15	CMS	N	51	0.1	1257	61	0.01	0	0	Y	N
2/20/2019	17:00	CMS	Y	62	0.1	1257	61	0.01	0	0	N	N
3/1/2019	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
3/4/2019	8:00	CMS	Y	61	0.1	1257	61	0.01	0	0	Y	N
3/12/2019	16:15	CMS	Y	61	0.1	1257	61	0.01	0	0	N	N
3/16/2019	10:00	CMS	Y	62	0.1	1257	61	0.01	0	0	Y	N
3/22/2019	17:00	CMS	Y	56	0.1	1257	61	0.01	0	0	N	N
3/29/2019	17:00	CMS	Y	60	0.1	1257	61	0.01	0	0	Y	N
4/3/2019	8:00	CMS	N	55	0.1	1257	61	0.01	0	0	Y	N
4/4/2019	8:00	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
4/10/2019	16:30	CMS	Y	52	0.1	1257	61	0.01	0	0	N	N
4/12/2019	17:00	CMS	Y	58	0.1	1257	61	0.01	0	0	Y	N
4/19/2019	8:00	CMS	Y	62	0.1	1257	61	0.01	0	0	N	N
4/22/2019	8:00	CMS	Y	65	0.1	1257	61	0.01	0	0	N	N
4/24/2019	16:15	CMS	Y	60	0.1	1257	61	0.01	0	0	Y	N
5/3/2019	16:30	CMS	Y	60	0.1	1257	61	0.01	0	0	N	N
5/6/2019	16:00	CMS	Y	54	0.1	1257	61	0.01	0	0	N	N
5/7/2019	16:00	CMS	Y	52	0.1	1257	61	0.01	0	0	N	N
5/8/2019	16:00	CMS	Y	66	0.1	1257	61	0.01	0	0	Y	N
5/13/2019	16:00	CMS	Y	64	0.1	1257	61	0.01	0	0	N	N
5/16/2019	16:00	CMS	Y	66	0.1	1257	61	0.01	0	0	N	N
5/17/2019	16:00	CMS	Y	69	0.1	1257	61	0.01	0	0	N	N
5/18/2019	10:30	CMS	Y	70	0.1	1257	61	0.01	0	0	Y	N
5/30/2019	8:00	CMS	Y	55	0.1	1257	61	0.01	0	0	N	N
6/7/2019	17:00	CMS	Y	60	0.1	1257	61	0.01	0	0	Y	N
6/21/2019	17:15	CMS	Y	65	0.1	1257	61	0.01	0	0	N	N
6/26/2019	15:00	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
7/9/2019	17:30	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
8/16/2019	16:30	CMS	Y	71	0.1	1257	61	0.01	0	0	Y	N
9/19/2019	18:00	CMS	N	63	0.1	1257	61	0.01	0	0	N	N
9/20/2019	17:00	CMS	Y	67	0.1	1257	61	0.01	0	0	N	N
10/4/2019	16:45	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
10/10/2019	16:45	CMS	Y	71	0.1	1257	61	0.01	0	0	N	N
10/14/2019	16:50	CMS	Y	68	0.1	1257	61	0.01	0	0	N	N
10/25/2019	17:25	CMS	Y	69	0.1	1257	61	0.01	0	0	N	N
10/31/2019	17:00	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
11/8/2019	9:00	CMS	N	68	0.1	1257	61	0.01	0	0	Y	N
11/11/2019	9:15	CMS	Y	71	0.1	1257	61	0.01	0	0	N	N
11/21/2019	17:10	CMS	Y	74	0.1	1257	61	0.01	0	0	N	N
11/25/2019	17:00	CMS	Y	69	0.1	1257	61	0.01	0	0	N	N
11/29/2019	16:45	CMS	Y	73	0.1	1257	61	0.01	0	0	N	N
12/3/2019	17:00	CMS	Y	71	0.1	1257	61	0.01	0	0	N	N
12/6/2019	8:55	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
12/10/2019	16:30	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
12/18/2019	17:00	CMS	Y	71	0.1	1257	61	0.01	0	0	Y	N
12/19/2019	8:45	CMS	Y	73	0.1	1257	61	0.01	0	0	N	N
12/27/2019	16:50	CMS	Y	69	0.1	1257	61	0.01	0	0	N	N
12/30/2019	9:10	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
1/3/2020	16:30	CMS	Y	73	0.1	1257	61	0.01	0	0	N	N
1/7/2020	9:15	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
1/14/2020	16:55	CMS	Y	68	0.1	1257	61	0.01	0	0	N	N
1/21/2020	17:00	CMS	Y	67	0.1	1257	61	0.01	0	0	N	N
1/24/2020	9:20	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
1/27/2020	12:30	CMS	Y	71	0.1	1257	61	0.01	0	0	N	N
2/5/2020	17:25	CMS	Y	72	0.1	1257	61	0.01	0	0	Y	N
2/7/2020	8:40	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
2/11/2020	16:45	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
2/18/2020	17:00	CMS	Y	68	0.1	1257	61	0.01	0	0	N	N
2/25/2020	16:35	CMS	Y	71	0.1	1257	61	0.01	0	0	N	N
3/2/2020	17:20	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
3/17/2020	17:00	CMS	Y	69	0.1	1257	61	0.01	0	0	N	N
3/31/2020	16:55	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
4/14/2020	17:25	CMS	Y	70	0.1	1257	61	0.01	0	0	N	N
4/24/2020	16:35	CMS	Y	69	0.1	1257	61	0.01	0	0	N	N
5/8/2020	17:00	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N
5/22/2020	17:00	CMS	Y	68	0.1	1257	61	0.01	0	0	N	N
6/26/2020	16:45	CMS	Y	69	0.1	1257	61	0.01	0	0	Y	N

7/21/2020	17:00	CMS	Y	72	0.1	1257	61	0.01	0	0	N	N

NOTES :	
9/6/2017	Start system at 13:00
9/8/2017	EOS = overload protection (too much AMPs) maybe a power outage too. May need to be below 13.28 AMPs
9/8/2017	left system 12.7 A, 25 Hz, 755 RPM, 99 V
9/12/2017	system at 12.5 A, 25 Hz, 755 RPM, 99 V, no influenced VMP, had 0.1" H2O at MW-4
2/21/2018	EOS Error restore system turned down AMP to 12
3/9/2018	power to trailer is off
3/14/2018	restarted system 9.5 AMPs - running very slow, will tweak next time, testing if it runs
	turned up to 12 AMPs running better
3/15/2018	EOS error turned AMPs to 10.2 let run
7/12/2018	Turned back on, set AMPs to 10.3
7/16/2018	System running at 9.8 A
7/31/2018	Hot inside trailer, greased blower, motor seems to be running loud, turned fan on, ran at 10.4 A
8/4/2018	Oiled motor
8/31/2018	System running, sounds a little better, added more oil, running at 10.2 A
12/5/2018	restarted at 9.8 AMPS, checked 12/6…ok.
1/7/2019	restarted at 8.7 AMPS, checked 1/8…ok. Increased to 9.5 A
2/18/2019	restarted at 9.6 AMPS, checked 2/20…ok
4/3/2019	no power. Breaker inside building reconfigured and was in off position. Breaker is now in sub-basement location. Chewcked 4/4…ok
5/6 and 5/7/2019	Blower seems to be running a little slow. Added oil. Intake a little low. AMPs at 9.3. Will check 5/8…OK
6/26/2019	Oiled blower motor
8/16/2019	Switched to one well…SVE-1
9/19/2019	System not running. Start and ran at 8.6A, Check 9/20/19…ok
9/20/2019	Switched to SVE-2
9/21/2019	Quick check. System running well
10/10/2019	Switched to SVE-3
11/8/2019	System not running. Start and ran at 8.8A, Check 11/9/19…ok. Switcthed to SVE-1
12/18/2019	Switch to SVE-2. Checked 12/19/2019…ok
2/11/2020	Switch to SVE-3
3/17/2020	Switch to SVE-1
4/24/2020	Switch to SVE-2
5/22/2020	Switch to SVE-3
6/26/2020	Temp. shut-off prior to GW sampling
7/1/2020	Start up system for air and GW sampling on 7/9/2020

1050-1088 NIAGARA STREET SITE
SVE SYSTEM LOG
SHEET 2 OF 2

Date	Time	Inspector's Initials	SVE #1 (in.WC)	SVE #2 (in.WC)	SVE #3 (in.WC)	VMP (in.WC)	MW-3 (in.WC)	MW-4 (in.WC)	MW-5r (in.WC)
9/6/2017	16:10	BMG	88	89	88	0	NA	0	NA
10/30/2017	14:30	NAS	79	77	77	0	NA	0	1.1
11/2/2017	10:00	NAS	0	66.8	0	0	0	0	0
11/3/2017	10:00	NAS		84					
11/6/2017	15:28	NAS	64	0.5	0.2	0	0	0	0
11/7/2017	8:00	NAS	63	64	66	0	0	0	0
11/27/2017	16:00	CMS	70	70	70	NA	0	0	0
12/16/2017	11:00	CMS	65	68	70	0	0	0	0
1/9/2018	12:30	NAS						0	
3/30/2018	15:15	CMS	40	NA	26	NA	0	0	0
4/18/2018	15:10	CMS	50	45	40	NA	0	0	0
5/13/2018	12:30	CMS	50	50	40	NA	0	0	0
6/18/2018	15:45	CMS	45	40	30	NA	0	0	0
7/12/2018	16:30	CMS	45	43	35	NA	0	0	0
8/4/2018	10:30	CMS	59	62	55	0	0	0	0
9/4/2018	16:40	CMS	53	50	47	NA	0	0	0
10/11/2018	16:11	CMS	56	56	55	NA	0	0	0
10/20/2018	10:15	CMS	58	56	57	NA	0	0	0
11/17/2018	9:00	CMS	56	60	57	0	0	0	0
12/22/2018	10:30	CMS	60	65	60	0	0	0	0
1/4/2019	16:30	CMS	55	55	55	NA	0	0	0
1/26/2019	9:00	CMS	60	63	59	0	0	0	0
2/20/2019	17:00	CMS	56	56	57	NA	0	0	0
3/16/2019	10:00	CMS	58	62	61	0	0	0	0
4/3/2019	8:00	CMS	46	44	45	NA	0	0	0
4/4/2019	8:00	CMS	58	58	58	NA	0	0	0
5/18/2019	10:30	CMS	63	65	59	0	0	0	0
8/16/2019	16:30	CMS	75	0	0	0	0	0	0
9/20/2019	17:00	CMS	0	81	0	0	0	0	0
10/10/2019	16:45	CMS	0	0	82	0	0	0	0
11/8/2019	9:00	CMS	77	0	0	0	0	0	0
12/18/2019	17:00	CMS	0	85	0	0	0	0	0
2/11/2020	16:45	CMS	0	0	79	0	0	0	0
3/17/2020	17:00	CMS	82	0	0	0	0	0	0
4/24/2020	16:35	CMS	0	76	0	0	0	0	0
5/22/2020	17:00	CMS	0	0	75	0	0	0	0
7/1/2020	17:00	CMS	59	52	47	0	0	0	0

Notes:

Date	
11/2/2017	running just SVE-2
11/6/2017	all 3
3/30/2018	couldn't access VMP and MW-3 (parked vehicles); SVE-2 (cap stuck)
4/3/2019	pressure low due to restart of system
ALL	NA at vmp due to presence of parked vehicles
8/16/2019	Switched to SVE-1 only
9/20/2019	Switched to SVE-2 only
10/10/2019	Switched to SVE-3 only
11/8/2019	Switched to SVE-1 only
12/18/2019	Switched to SVE-2 only
2/11/2020	Switched to SVE-3 only
3/17/2020	Switched to SVE-1 only
4/24/2020	Switched to SVE-2 only
5/22/2020	Switched to SVE-3 only
7/1/2020	All wells on for sampling

APPENDIX D

GROUNDWATER MONITORING SAMPLING LOGS

GROUNDWATER FIELD FORM

Project Name: 1650-1086 NIAGARA
Location: [illegible]
Project No.:
Date: 11/2/19
Field Team: CS

Well No. TMW-3			Diameter (inches): 1"			Sample Date / Time: 1030 11/2/19			
Product Depth (fbTOR):			Water Column (ft): 5.66			DTW when sampled: 14.89			
DTW (static) (fbTOR): 9.38			One Well Volume (gal): 0.23			Purpose: ☐ Development ☒ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 15.04			Total Volume Purged (gal): 0.70			Purge Method: BAILER			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1010	0 Initial	–	7.42	13.5	1586	>1000	5.57	84	LIGHT BROWN
1015	1 12.70	0.25	7.13	13.1	1613	>1000	6.13	70	ORANGE TINT
1020	2 14.15	0.50	7.10	13.3	1602	>1000	5.23	81	TURBID
1025	3 DRY	0.75	6.99	13.0	1581	>1000	5.43	69	
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1030	S1 14.89	0.80	6.91	13.1	1599	>1000	5.27	82	
1035	S2 14.92	0.85	6.89	13.1	1623	>1000	5.38	81	

Well No. MW-3			Diameter (inches): 2"			Sample Date / Time: 900 11/2/19			
Product Depth (fbTOR):			Water Column (ft): 2.68			DTW when sampled: 28.62			
DTW (static) (fbTOR): 26.02			One Well Volume (gal): 0.44			Purpose: ☐ Development ☒ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 28.70			Total Volume Purged (gal): 1.31			Purge Method: BAILER			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
840	0 Initial	–	7.35	11.4	1415	144	1.52	-90	CLEAR
845	1 28.40	0.50	7.03	11.6	1407	273	1.51	-93	FAINT ODOR
850	2 28.53	1.00	7.04	11.5	1413	344	1.61	-97	ORANGE
855	3 28.61	1.50	7.21	11.2	1421	455	1.78	-91	FLECKS
	4								
	5								BECOMES
	6								CLOUDY
	7								
	8								SLIGHT SHEEN
	9								ON WATER IN
	10								BUCKET
Sample Information:									
900	S1 28.62	1.55	7.13	11.3	1398	523	1.49	-90	
905	S2 28.34	1.60	7.07	11.7	1407	544	1.55	-100	

REMARKS: MW-4 + 5R DRY

Total Depth: 27.44

Total Depth: 20.23

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Date:

Location: Project No.: Field Team:

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

Well No. MW-6			Diameter (inches): 2"			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft): 7.30			DTW when sampled:			
DTW (static) (fbTOR): 9.56			One Well Volume (gal): 1.19			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR): 16.86			Total Volume Purged (gal): 3.57			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1140	0 Initial	—	7.49	13.1	1425	71000	4.34	-44	BROWN VERY
1145	1 12.33	1.20	7.45	15.6	1341	71000	5.02	-30	TURBID
1150	2 13.12	2.40	7.55	13.3	1397	>1000	5.06	-35	NO ODOR
1155	3 13.74	3.60	7.60	13.4	1413	>1000	4.89	-32	
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1200	S1 13.80	3.65	7.57	13.0	1408	71000	5.13	-50	
1205	S2 13.83	3.70	7.63	13.3	1395	>1000	4.97	-38	

REMARKS:

Note: All measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

TurnKey Environmental Restoration LLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: LTWM – Post COC

Project No.:

Client: Ellicott

Date: 11/2/19

Instrument Source: ☒ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	800	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☒ 6212375 ☐ 6243003 ☐ 6223973 ☐	CS	4.00 7.00 10.01	4.02 7.01 10.07	
☐ Turbidity meter	NTU		Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☐ 17110C062619 (Q) ☐		10 NTU verification <0.4 20 100 800		
☒ Sp. Cond. meter	uS mS	800	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☒ 6212375 ☐ 6243003 ☐ 6223973 ☐	CS	7000 mS @ 25 °C	7002	
☐ PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
☒ Dissolved Oxygen	ppm	810	HACH Model HQ30d	080700023281 ☐ 100500041867 ☒ 140200100319 ☐	CS	100% Satuartion	100% PASS	
☐ Particulate meter	mg/m^3					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: CS **DATE:** 11/2/19

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: 1050-1288 NIAGARA Date: 7/9/20

Location: 4 Project No.: 0BC-013-005 Field Team: CS

Well No. MW-3 | Diameter (inches): 2 | Sample Date / Time: 7/9/20 1235

Product Depth (fbTOR): — | Water Column (ft): 1.68 | DTW when sampled: 27.71

DTW (static) (fbTOR): 27.05 | One Well Volume (gal): 0.27 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample

Total Depth (fbTOR): 28.73 | Total Volume Purged (gal): 0.82 | Purge Method: BAILER

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1212	0 Initial	—	6.52	18.5	1588	14.7	1.14	-83	CLEAR FAINT
1217	1 27.42	0.27	6.88	18.1	1606	163	1.02	-134	PETROL ODOR
1222	2 27.61	0.54	6.90	17.9	1627	389	1.18	-126	
1227	3 27.65	0.82	6.90	16.8	1613	375	1.37	-122	
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1235	S1 27.71	0.85	6.89	17.1	1597	324	1.06	-112	CLOUDY FAINT
1245	S2 27.73	0.90	6.90	17.5	1607	257	1.01	-110	PETROL ODOR

Well No. TMW-3 | Diameter (inches): 1 | Sample Date / Time: 7/9/20

Product Depth (fbTOR): | Water Column (ft): 3.01 | DTW when sampled:

DTW (static) (fbTOR): 12.07 | One Well Volume (gal): 0.12 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample

Total Depth (fbTOR): 15.08 | Total Volume Purged (gal): 0.37 | Purge Method: BAILER

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1341	0 Initial	—	7.47	20.4	2280	>1000	1.11	3	TURBID
1347	1 14.51	0.12	7.34	17.2	2224	>1000	2.05	-13	NO ODOR
1357	2 DRY	0.25	7.41	17.4	2204	>1000	3.07	-15	
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1352	S1 14.91	0.25	7.31	16.2	2060	>1000	7.55	-16	HIGH DO
1407	S2 14.96	0.30	7.27	16.7	2134	>1000	6.51	-17	WATER AGITATED

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: 1050-1088 NIAGARA ST Date: 7/9/20

Location: Project No.: 0136-013-005 Field Team: CS

Well No. MW-6			Diameter (inches): 2			Sample Date / Time: 7/9/20			
Product Depth (fbTOR):			Water Column (ft): 5.74			DTW when sampled:			
DTW (static) (fbTOR): 11.19			One Well Volume (gal): 0.94			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 16.93			Total Volume Purged (gal): 2.80			Purge Method: BAILER			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1452	0 Initial	–	7.79	19.3	1120	63.8	5.79	27	CLEAR NO ODOR
1457	1 11.77	0.95	7.70	19.7	1211	71000	5.15	33	
1502	2 13.51	1.90	7.65	19.0	1255	71000	4.82	36	
1507	3 13.77	2.85	7.64	19.7	1270	71000	4.57	38	TURBID NO ODOR
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1512	S1 13.92	2.90	7.66	22.0	1265	71000	4.49	42	
1517	S2 14.05	2.95	7.64	18.8	1272	71000	4.80	43	

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☐ Purge & Sample			
Total Depth (fbTOR):			Total Volume Purged (gal):			Purge Method:			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	0 Initial								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
	S1								
	S2								

REMARKS: MW-4 (Depth: 27.44) and MW-5r (Depth: 20.23) Dry

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

Location 1050 NIAGARA Date 7/9/20

Project / Client

EQUIP CALIBRATION

- DO 100%, 34.1° C, 6.85 mg/L
  PROBE LDO10113347259013 Model 100500041867
  SLOPE 100.3%, OFFSET 0.00 mg/L.
  985 hPa
  11:37 AM
- pH 10.01 Model 6243084, Time 11:40
  3.99
  7.00
- TURB PASSED 10.2 Model 6243084, Time 11.43

APPENDIX E

LABORATORY ANALYTICAL DATA REPORTS

ANALYTICAL REPORT

Lab Number:	L2029278
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 225-3314
Project Name:	1050-1088 NIAGARA ST.
Project Number:	T0136-013-005
Report Date:	08/25/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2029278-01	SVE-1 INFLUENT	SOIL_VAPOR	1050-1088 NIAGARA ST.	07/09/20 16:49	07/10/20
L2029278-02	SVE-2 EFFLUENT	SOIL_VAPOR	1050-1088 NIAGARA ST.	07/09/20 16:48	07/10/20
L2029278-03	UNUSED CAN #2187	SOIL_VAPOR	1050-1088 NIAGARA ST.		07/10/20

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L2029278
Project Number:	T0136-013-005	**Report Date:**	08/25/20

Case Narrative

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

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

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

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

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

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

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L2029278
Project Number: T0136-013-005 **Report Date:** 08/25/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 30 and July 1, 2020. The canister certification results are provided as an addendum.

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: Christopher J. Anderson

Title: Technical Director/Representative Date: 08/25/20

AIR

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-01
Client ID: SVE-1 INFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:49
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/16/20 04:19
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.473	0.200	--	2.34	0.989	--		1
Chloromethane	0.516	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	13.9	5.00	--	26.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.08	1.00	--	19.2	2.38	--		1
Trichlorofluoromethane	0.298	0.200	--	1.67	1.12	--		1
Isopropanol	0.640	0.500	--	1.57	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.30	0.500	--	3.94	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.32	0.500	--	3.89	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-01
Client ID: SVE-1 INFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:49
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.772	0.500	--	2.28	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.260	0.200	--	0.831	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.268	0.200	--	1.25	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.615	0.200	--	2.32	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-01
Client ID: SVE-1 INFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:49
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.517	0.400	--	2.25	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.281	0.200	--	1.38	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Acetaldehyde	4.0	NJ	ppbV		1
unknown alkane	1.7	J	ppbV		1
Decane (C10)	2.9	NJ	ppbV		1
1-dodecene	2.1	NJ	ppbV		1
Dodecane (C12)	14	NJ	ppbV		1
Octane, 2,6-dimethyl-	2.6	NJ	ppbV		1
Tridecane	2.0	NJ	ppbV		1
Undecane	6.0	NJ	ppbV		1
Methyl Alcohol	3.2	NJ	ppbV		1

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-01
Client ID: SVE-1 INFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:49
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Heptane, 2,4-dimethyl-	2.8	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	75		60-140

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-02
Client ID: SVE-2 EFFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:48
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 07/16/20 06:27
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.06	0.200	--	5.24	0.989	--		1
Chloromethane	1.20	0.200	--	2.48	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	52.6	5.00	--	99.1	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	56.4	1.00	--	134	2.38	--		1
Trichlorofluoromethane	2.25	0.200	--	12.6	1.12	--		1
Isopropanol	1.22	0.500	--	3.00	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	13.3	0.500	--	40.3	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.499	0.200	--	1.55	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.28	0.500	--	6.72	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-02
Client ID: SVE-2 EFFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:48
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.689	0.500	--	2.03	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.489	0.200	--	1.56	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.867	0.200	--	4.66	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.292	0.200	--	1.20	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.770	0.200	--	2.90	0.754	--		1
2-Hexanone	0.249	0.200	--	1.02	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.208	0.200	--	0.903	0.869	--		1

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-02
Client ID: SVE-2 EFFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:48
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.920	0.400	--	4.00	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.234	0.200	--	0.996	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.271	0.200	--	1.18	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.397	0.200	--	1.95	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
1-Propene, 2-methyl-	9.5	NJ	ppbV		1
Unknown	4.2	J	ppbV		1
Methyl Alcohol	21	NJ	ppbV		1
Cyclotrisiloxane, Hexamethyl-	2.7	NJ	ppbV		1
Acetaldehyde	43	NJ	ppbV		1
Dodecane (C12)	12	NJ	ppbV		1
1-dodecene	1.8	NJ	ppbV		1
Undecane	6.6	NJ	ppbV		1
Decane (C10)	4.1	NJ	ppbV		1

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

SAMPLE RESULTS

Lab ID: L2029278-02
Client ID: SVE-2 EFFLUENT
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 07/09/20 16:48
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Tridecane	1.8	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	82		60-140
Bromochloromethane	80		60-140
chlorobenzene-d5	78		60-140

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/15/20 14:50

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1392535-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: 1050-1088 NIAGARA ST. **Lab Number:** L2029278

Project Number: T0136-013-005 **Report Date:** 08/25/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/15/20 14:50

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1392535-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005
Lab Number: L2029278
Report Date: 08/25/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 07/15/20 14:50

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1392535-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Lab Number: L2029278

Report Date: 08/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1392535-3								
Dichlorodifluoromethane	118		-		70-130	-		
Chloromethane	106		-		70-130	-		
Freon-114	110		-		70-130	-		
Vinyl chloride	108		-		70-130	-		
1,3-Butadiene	109		-		70-130	-		
Bromomethane	108		-		70-130	-		
Chloroethane	106		-		70-130	-		
Ethanol	96		-		40-160	-		
Vinyl bromide	104		-		70-130	-		
Acetone	84		-		40-160	-		
Trichlorofluoromethane	111		-		70-130	-		
Isopropanol	85		-		40-160	-		
1,1-Dichloroethene	110		-		70-130	-		
Tertiary butyl Alcohol	101		-		70-130	-		
Methylene chloride	103		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	99		-		70-130	-		
Freon-113	110		-		70-130	-		
trans-1,2-Dichloroethene	107		-		70-130	-		
1,1-Dichloroethane	110		-		70-130	-		
Methyl tert butyl ether	102		-		70-130	-		
2-Butanone	110		-		70-130	-		
cis-1,2-Dichloroethene	112		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1392535-3								
Ethyl Acetate	120		-		70-130	-		
Chloroform	108		-		70-130	-		
Tetrahydrofuran	110		-		70-130	-		
1,2-Dichloroethane	106		-		70-130	-		
n-Hexane	109		-		70-130	-		
1,1,1-Trichloroethane	108		-		70-130	-		
Benzene	104		-		70-130	-		
Carbon tetrachloride	113		-		70-130	-		
Cyclohexane	112		-		70-130	-		
1,2-Dichloropropane	112		-		70-130	-		
Bromodichloromethane	113		-		70-130	-		
1,4-Dioxane	112		-		70-130	-		
Trichloroethene	111		-		70-130	-		
2,2,4-Trimethylpentane	114		-		70-130	-		
Heptane	109		-		70-130	-		
cis-1,3-Dichloropropene	114		-		70-130	-		
4-Methyl-2-pentanone	109		-		70-130	-		
trans-1,3-Dichloropropene	97		-		70-130	-		
1,1,2-Trichloroethane	117		-		70-130	-		
Toluene	109		-		70-130	-		
2-Hexanone	106		-		70-130	-		
Dibromochloromethane	124		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST.

Project Number: T0136-013-005

Lab Number: L2029278

Report Date: 08/25/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1392535-3								
Tetrachloroethene	112		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Ethylbenzene	114		-		70-130	-		
p/m-Xylene	112		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	111		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	113		-		70-130	-		
4-Ethyltoluene	113		-		70-130	-		
1,3,5-Trimethylbenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	116		-		70-130	-		
Benzyl chloride	116		-		70-130	-		
1,3-Dichlorobenzene	112		-		70-130	-		
1,4-Dichlorobenzene	108		-		70-130	-		
1,2-Dichlorobenzene	114		-		70-130	-		
1,2,4-Trichlorobenzene	100		-		70-130	-		
Hexachlorobutadiene	129		-		70-130	-		

Project Name: 1050-1088 NIAGARA ST.

Lab Number: L2029278

Project Number: T0136-013-005

Report Date: 08/25/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2029278-01	SVE-1 INFLUENT	01497	Flow 2	06/30/20	325069		-	-	-	Pass	72	78	8
L2029278-01	SVE-1 INFLUENT	2196	2.7L Can	07/01/20	325173	L2026031-01	Pass	-29.3	-5.2	-	-	-	-
L2029278-02	SVE-2 EFFLUENT	01011	Flow 2	06/30/20	325069		-	-	-	Pass	72	80	11
L2029278-02	SVE-2 EFFLUENT	3105	2.7L Can	06/30/20	325069	L2025282-01	Pass	-29.0	-5.8	-	-	-	-
L2029278-03	UNUSED CAN #2187	0396	Flow 2	06/30/20	325069		-	-	-	Pass	72	82	13
L2029278-03	UNUSED CAN #2187	2187	2.7L Can	07/01/20	325173	L2026031-01	Pass	-29.1	-29.4	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/22/20 18:45
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/22/20 18:45
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2025282

Project Number: CANISTER QC BAT **Report Date:** 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2025282
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2025282-01
Client ID: CAN 1729 SHELF 14
Sample Location:

Date Collected: 06/16/20 16:00
Date Received: 06/17/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	0.071	0.050	--	0.757	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/23/20 02:40
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/23/20 02:40
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2026031
Report Date: 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2026031

Project Number: CANISTER QC BAT **Report Date:** 08/25/20

Air Canister Certification Results

Lab ID: L2026031-01
Client ID: CAN 2555 SHELF 13
Sample Location:

Date Collected: 06/19/20 16:00
Date Received: 06/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140

Project Name: 1050-1088 NIAGARA ST.
Project Number: T0136-013-005

Lab Number: L2029278
Report Date: 08/25/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2029278-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2029278-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2029278-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L2029278
Project Number:	T0136-013-005	**Report Date:**	08/25/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L2029278
Project Number:	T0136-013-005	**Report Date:**	08/25/20

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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 Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

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

ND - Not detected at the reporting limit (RL) for the sample.

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

Report Format: Data Usability Report

Project Name:	1050-1088 NIAGARA ST.	**Lab Number:**	L2029278
Project Number:	T0136-013-005	**Report Date:**	08/25/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE ____ OF ____

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7/11/20

ALPHA Job #: L2029278

Client Information

Client: TURNKEY ENV. REST.
Address: 2558 HAMBURG TPKE
BUFFALO, NY 14218
Phone: 716-856-0599
Fax:
Email: nmunley@bm-tk.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 1050-1088 NIAGARA ST
Project Location: 1050-1088 NIAGARA ST
Project #: T0136-015-005
Project Manager: NATE MUNLEY
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: DO NOT ANALYZE CANISTER 2187

Project-Specific Target Compound List: ☐ CAT B

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15 +TICs	TO-15 SIM	APH (Subject Non-petroleum HCs)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
29278-01	SVE-1 INFLUENT	7/9/20	1617	1649	-28.30	-3.82	SV	CS	2.7L	2198	D1497	X					+TICs 0.0 PPM
02	SVE-2 EFFLUENT	7/9/20	1617	1648	-27.33	-4.17	SV	CS	2.7L	3105	D1011	X					+TICs 0.0 PPM

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: SV

Relinquished By:	Date/Time	Received By:	Date/Time:
Chad M Thurston	7/10/20 901	JM AL 4AL	7/10/20 15:35
BKelly	7/11/20 0620	BKelly	7/11/20 7:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2029287
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 856-0599
Project Name:	1050-1088 NIAGARA STREET SITE
Project Number:	T0136-013-005
Report Date:	07/20/20

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

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

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2029287-01	TMW-3	WATER	1050-1088 NIAGARA STREET	07/09/20 13:52	07/10/20
L2029287-02	MW-3	WATER	1050-1088 NIAGARA STREET	07/09/20 12:35	07/10/20
L2029287-03	MW-6	WATER	1050-1088 NIAGARA STREET	07/09/20 15:12	07/10/20
L2029287-04	TRIP BLANK		1050-1088 NIAGARA STREET	07/09/20 00:00	07/10/20

Project Name:	1050-1088 NIAGARA STREET SITE	**Lab Number:**	L2029287
Project Number:	T0136-013-005	**Report Date:**	07/20/20

Case Narrative

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

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

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

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

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

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

Project Name:	1050-1088 NIAGARA STREET SITE	**Lab Number:**	L2029287
Project Number:	T0136-013-005	**Report Date:**	07/20/20

Case Narrative (continued)

Report Revision

July 20, 2020: Tentatively Identified Compounds have been added to the Volatile Organics analysis.

Report Submission

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

Sample Receipt

L2029287-04: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample 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: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 07/20/20

ORGANICS

VOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-01
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 13:52
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/14/20 21:03
Analyst: PD

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

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-01 Date Collected: 07/09/20 13:52

Client ID: TMW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.8		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
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.84	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds						
Total TIC Compounds	2.19	J	ug/l			1
Unknown Benzene	1.12	J	ug/l			1
Unknown Aromatic	1.07	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	93		70-130

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/20 02:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	32		ug/l	0.50	0.16	1
Toluene	4.2		ug/l	2.5	0.70	1
Ethylbenzene	2.2	J	ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02 Date Collected: 07/09/20 12:35

Client ID: MW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	6.8		ug/l	2.5	0.70	1
o-Xylene	2.8		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	57		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	340	E	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	220	E	ug/l	10	0.40	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02 Date Collected: 07/09/20 12:35

Client ID: MW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	1080	J	ug/l			1
Unknown	77.9	J	ug/l			1
Unknown Cyclohexane	106	J	ug/l			1
Unknown	183	J	ug/l			1
Unknown	108	J	ug/l			1
Unknown Aromatic	89.3	J	ug/l			1
Unknown Cycloalkane	91.0	J	ug/l			1
Cyclopentane, Methyl-	207	NJ	ug/l			1
Unknown Aromatic	65.2	J	ug/l			1
Pentane	80.5	NJ	ug/l			1
Unknown Cycloalkane	67.2	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	125		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	87		70-130

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02 D
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/20 18:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Cyclohexane	350		ug/l	40	1.1	4
Methyl cyclohexane	210		ug/l	40	1.6	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 15:12
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/14/20 21:26
Analyst: PD

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

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-03 Date Collected: 07/09/20 15:12

Client ID: MW-6 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	93		70-130

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/14/20 18:20
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392497-5					
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: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/14/20 18:20
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392497-5					
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
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005
Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/14/20 18:20
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392497-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	94		70-130

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/20 17:34
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1392909-5					
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: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/20 17:34
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1392909-5					
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: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005
Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/20 17:34
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1392909-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392497-3 WG1392497-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	110		120		70-130	9		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	89		94		63-132	5		20
1,2-Dichloropropane	110		120		70-130	9		20
Dibromochloromethane	92		96		63-130	4		20
1,1,2-Trichloroethane	110		120		70-130	9		20
Tetrachloroethene	92		95		70-130	3		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	110		120		70-130	9		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
Bromoform	82		90		54-136	9		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	84		94		39-139	11		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392497-3 WG1392497-4								
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	99		110		70-130	11		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	99		100		36-147	1		20
Acetone	110		110		58-148	0		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	120		120		63-138	0		20
4-Methyl-2-pentanone	120		120		59-130	0		20
2-Hexanone	120		130		57-130	8		20
Bromochloromethane	95		98		70-130	3		20
1,2-Dibromoethane	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	94		100		41-144	6		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	97		100		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392497-3 WG1392497-4								
1,2,4-Trichlorobenzene	95		100		70-130	5		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	110		120		70-130	9		20
1,4-Dioxane	102		114		56-162	11		20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	100		110		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		111		70-130
Toluene-d8	104		102		70-130
4-Bromofluorobenzene	110		109		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

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: WG1392909-3 WG1392909-4								
Methylene chloride	97		95		70-130	2		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	98		100		63-132	2		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	86		88		63-130	2		20
1,1,2-Trichloroethane	90		90		70-130	0		20
Tetrachloroethene	94		98		70-130	4		20
Chlorobenzene	93		95		75-130	2		20
Trichlorofluoromethane	100		110		62-150	10		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	92		95		67-130	3		20
trans-1,3-Dichloropropene	95		92		70-130	3		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
Bromoform	90		88		54-136	2		20
1,1,2,2-Tetrachloroethane	85		87		67-130	2		20
Benzene	89		90		70-130	1		20
Toluene	92		94		70-130	2		20
Ethylbenzene	93		97		70-130	4		20
Chloromethane	110		120		64-130	9		20
Bromomethane	73		64		39-139	13		20
Vinyl chloride	93		92		55-140	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE

Project Number: T0136-013-005

Lab Number: L2029287

Report Date: 07/20/20

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: WG1392909-3 WG1392909-4								
Chloroethane	89		87		55-138	2		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	96		98		70-130	2		20
Trichloroethene	92		94		70-130	2		20
1,2-Dichlorobenzene	95		97		70-130	2		20
1,3-Dichlorobenzene	96		98		70-130	2		20
1,4-Dichlorobenzene	94		98		70-130	4		20
Methyl tert butyl ether	88		87		63-130	1		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	100		110		36-147	10		20
Acetone	91		100		58-148	9		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	93		89		63-138	4		20
4-Methyl-2-pentanone	74		72		59-130	3		20
2-Hexanone	65		66		57-130	2		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	88		87		70-130	1		20
1,2-Dibromo-3-chloropropane	78		79		41-144	1		20
Isopropylbenzene	97		100		70-130	3		20
1,2,3-Trichlorobenzene	87		88		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

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: WG1392909-3 WG1392909-4								
1,2,4-Trichlorobenzene	91		92		70-130	1		20
Methyl Acetate	89		86		70-130	3		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	114		134		56-162	16		20
Freon-113	110		110		70-130	0		20
Methyl cyclohexane	89		92		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		106		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	97		94		70-130
Dibromofluoromethane	103		104		70-130

SEMIVOLATILES

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-01
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 13:52
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/16/20 06:27
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	7.8		ug/l	3.0	1.5	1
Butyl benzyl phthalate	7.9		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-01 Date Collected: 07/09/20 13:52

Client ID: TMW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-01 Date Collected: 07/09/20 13:52

Client ID: TMW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	573	J	ug/l			1
Unknown Alcohol	90.9	J	ug/l			1
Unknown	43.3	J	ug/l			1
Unknown	44.9	J	ug/l			1
Unknown	62.4	J	ug/l			1
Unknown	11.8	J	ug/l			1
Unknown	11.3	J	ug/l			1
Unknown	40.0	J	ug/l			1
Unknown Alcohol	37.9	J	ug/l			1
Unknown	9.60	J	ug/l			1
Unknown	33.5	J	ug/l			1
Unknown	26.1	J	ug/l			1
Unknown Organic Acid	54.5	J	ug/l			1
Unknown Siloxane	12.2	J	ug/l			1
Unknown	54.2	J	ug/l			1
Unknown Organic Acid	40.2	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	69		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Lab Number: L2029287
Project Number: T0136-013-005
Report Date: 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-01
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 13:52
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/20 18:38
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.40		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.06	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.20		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.27		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.33		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.14		ug/l	0.10	0.01	1
Chrysene	0.35		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.31		ug/l	0.10	0.01	1
Fluorene	0.03	J	ug/l	0.10	0.01	1
Phenanthrene	0.29		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.22		ug/l	0.10	0.01	1
Pyrene	0.35		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.06	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.32	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-01 Date Collected: 07/09/20 13:52

Client ID: TMW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	91		41-149

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/16/20 06:50
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.0	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02 Date Collected: 07/09/20 12:35

Client ID: MW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02 Date Collected: 07/09/20 12:35

Client ID: MW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	653	J	ug/l			1
Unknown Alkane	50.3	J	ug/l			1
Unknown	33.6	J	ug/l			1
Unknown Cycloalkane	32.8	J	ug/l			1
Unknown Alkane	36.4	J	ug/l			1
Unknown	28.5	J	ug/l			1
Indane	115	NJ	ug/l			1
Unknown	43.8	J	ug/l			1
Unknown Cycloalkane	53.7	J	ug/l			1
Unknown Alkane	29.1	J	ug/l			1
Unknown	24.3	J	ug/l			1
Unknown Alkane	27.4	J	ug/l			1
Unknown	32.8	J	ug/l			1
Unknown	40.7	J	ug/l			1
Unknown	45.4	J	ug/l			1
Unknown Alkane	58.7	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	84		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Lab Number: L2029287
Project Number: T0136-013-005
Report Date: 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 12:35
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/20 18:59
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.49		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.22		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.12		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.09	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.13		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.01	1
Chrysene	0.12		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.01	1
Fluorene	0.08	J	ug/l	0.10	0.01	1
Phenanthrene	0.18		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.06	J	ug/l	0.10	0.01	1
Pyrene	0.23		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.07	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-02 Date Collected: 07/09/20 12:35

Client ID: MW-3 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	**136**	Q	23-120
2-Fluorobiphenyl	98		15-120
2,4,6-Tribromophenol	**124**	Q	10-120
4-Terphenyl-d14	109		41-149

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 15:12
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/16/20 07:13
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-03 Date Collected: 07/09/20 15:12

Client ID: MW-6 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds						
Total TIC Compounds	20.6	J	ug/l			1
Unknown Organic Acid	2.62	J	ug/l			1
Unknown	3.20	J	ug/l			1
Unknown	1.49	J	ug/l			1
Unknown	2.25	J	ug/l			1
Unknown	4.54	J	ug/l			1
Unknown	3.56	J	ug/l			1
Unknown	2.94	J	ug/l			1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-03 Date Collected: 07/09/20 15:12

Client ID: MW-6 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	87		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Lab Number: L2029287
Project Number: T0136-013-005
Report Date: 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA STREET

Date Collected: 07/09/20 15:12
Date Received: 07/10/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/20 19:19
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA STREET SITE **Lab Number:** L2029287

Project Number: T0136-013-005 **Report Date:** 07/20/20

SAMPLE RESULTS

Lab ID: L2029287-03 Date Collected: 07/09/20 15:12

Client ID: MW-6 Date Received: 07/10/20

Sample Location: 1050-1088 NIAGARA STREET Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	111		15-120
2,4,6-Tribromophenol	116		10-120
4-Terphenyl-d14	120		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005
Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/20 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392096-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005
Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/20 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392096-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	17.2	J	ug/l
Unknown	3.34	J	ug/l
Unknown	1.64	J	ug/l
Unknown Organic Acid	2.29	J	ug/l
Unknown	1.89	J	ug/l
Unknown	2.87	J	ug/l
Unknown	1.53	J	ug/l
Unknown	1.71	J	ug/l

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005
Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/20 12:53
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1392096-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	63		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005
Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/20 11:27
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1392101-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005
Lab Number: L2029287
Report Date: 07/20/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/20 11:27
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/14/20 16:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1392101-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	99		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392096-2 WG1392096-3								
Bis(2-chloroethyl)ether	83		60		40-140	**32**	Q	30
3,3'-Dichlorobenzidine	73		50		40-140	**37**	Q	30
2,4-Dinitrotoluene	84		61		48-143	**32**	Q	30
2,6-Dinitrotoluene	81		52		40-140	**44**	Q	30
4-Chlorophenyl phenyl ether	67		47		40-140	**35**	Q	30
4-Bromophenyl phenyl ether	63		44		40-140	**36**	Q	30
Bis(2-chloroisopropyl)ether	107		75		40-140	**35**	Q	30
Bis(2-chloroethoxy)methane	81		55		40-140	**38**	Q	30
Hexachlorocyclopentadiene	63		42		40-140	**40**	Q	30
Isophorone	84		57		40-140	**38**	Q	30
Nitrobenzene	96		66		40-140	**37**	Q	30
NDPA/DPA	69		48		40-140	**36**	Q	30
n-Nitrosodi-n-propylamine	90		62		29-132	**37**	Q	30
Bis(2-ethylhexyl)phthalate	119		68		40-140	**55**	Q	30
Butyl benzyl phthalate	95		63		40-140	**41**	Q	30
Di-n-butylphthalate	84		56		40-140	**40**	Q	30
Di-n-octylphthalate	116		68		40-140	**52**	Q	30
Diethyl phthalate	79		55		40-140	**36**	Q	30
Dimethyl phthalate	69		46		40-140	**40**	Q	30
Biphenyl	73		50		40-140	**37**	Q	30
4-Chloroaniline	72		50		40-140	**36**	Q	30
2-Nitroaniline	82		56		52-143	**38**	Q	30
3-Nitroaniline	75		54		25-145	**33**	Q	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392096-2 WG1392096-3								
4-Nitroaniline	65		**48**	Q	51-143	30		30
Dibenzofuran	69		48		40-140	**36**	Q	30
1,2,4,5-Tetrachlorobenzene	65		45		2-134	**36**	Q	30
Acetophenone	80		56		39-129	**35**	Q	30
2,4,6-Trichlorophenol	68		46		30-130	**39**	Q	30
p-Chloro-m-cresol	78		52		23-97	**40**	Q	30
2-Chlorophenol	75		54		27-123	**33**	Q	30
2,4-Dichlorophenol	76		51		30-130	**39**	Q	30
2,4-Dimethylphenol	69		46		30-130	**40**	Q	30
2-Nitrophenol	99		66		30-130	**40**	Q	30
4-Nitrophenol	**90**	Q	61		10-80	**38**	Q	30
2,4-Dinitrophenol	84		45		20-130	**60**	Q	30
4,6-Dinitro-o-cresol	94		65		20-164	**36**	Q	30
Phenol	57		41		12-110	**33**	Q	30
3-Methylphenol/4-Methylphenol	81		57		30-130	**35**	Q	30
2,4,5-Trichlorophenol	69		46		30-130	**40**	Q	30
Carbazole	71		**51**	Q	55-144	**33**	Q	30
Atrazine	73		50		40-140	**37**	Q	30
Benzaldehyde	76		53		40-140	**36**	Q	30
Caprolactam	56		41		10-130	**31**	Q	30
2,3,4,6-Tetrachlorophenol	66		45		40-140	**38**	Q	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1392096-2 WG1392096-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		48		21-120
Phenol-d6	59		42		10-120
Nitrobenzene-d5	105		75		23-120
2-Fluorobiphenyl	65		43		15-120
2,4,6-Tribromophenol	68		45		10-120
4-Terphenyl-d14	68		48		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1392101-2 WG1392101-3								
Acenaphthene	74		72		40-140	3		40
2-Chloronaphthalene	88		85		40-140	3		40
Fluoranthene	93		88		40-140	6		40
Hexachlorobutadiene	95		94		40-140	1		40
Naphthalene	70		69		40-140	1		40
Benzo(a)anthracene	79		76		40-140	4		40
Benzo(a)pyrene	93		90		40-140	3		40
Benzo(b)fluoranthene	87		80		40-140	8		40
Benzo(k)fluoranthene	101		98		40-140	3		40
Chrysene	94		88		40-140	7		40
Acenaphthylene	97		94		40-140	3		40
Anthracene	85		82		40-140	4		40
Benzo(ghi)perylene	88		83		40-140	6		40
Fluorene	81		76		40-140	6		40
Phenanthrene	73		70		40-140	4		40
Dibenzo(a,h)anthracene	92		87		40-140	6		40
Indeno(1,2,3-cd)pyrene	86		83		40-140	4		40
Pyrene	94		89		40-140	5		40
2-Methylnaphthalene	79		76		40-140	4		40
Pentachlorophenol	60		78		40-140	26		40
Hexachlorobenzene	90		82		40-140	9		40
Hexachloroethane	73		69		40-140	6		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1392101-2 WG1392101-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45		46		21-120
Phenol-d6	45		45		10-120
Nitrobenzene-d5	77		74		23-120
2-Fluorobiphenyl	92		88		15-120
2,4,6-Tribromophenol	103		99		10-120
4-Terphenyl-d14	113		110		41-149

Project Name: 1050-1088 NIAGARA STREET SITE
Project Number: T0136-013-005

Lab Number: L2029287
Report Date: 07/20/20

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(*)
L2029287-01A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-01B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-01C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-01D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-01E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-02A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-02B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-02C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-02D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-02E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-03A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-03B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-03C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260-R2(14)
L2029287-03D	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-03E	Amber 250ml unpreserved	A	7	7	4.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2029287-04A	Vial HCl preserved	A	NA		4.7	Y	Absent		ARCHIVE()
L2029287-04B	Vial HCl preserved	A	NA		4.7	Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name:	1050-1088 NIAGARA STREET SITE	**Lab Number:**	L2029287
Project Number:	T0136-013-005	**Report Date:**	07/20/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	1050-1088 NIAGARA STREET SITE	**Lab Number:**	L2029287
Project Number:	T0136-013-005	**Report Date:**	07/20/20

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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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 Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration. (DoD and NYSDEC Part 375 PFAS only.)

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1050-1088 NIAGARA STREET SITE	**Lab Number:**	L2029287
Project Number:	T0136-013-005	**Report Date:**	07/20/20

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1050-1088 NIAGARA STREET SITE	**Lab Number:**	L2029287
Project Number:	T0136-013-005	**Report Date:**	07/20/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

NEW YORK CHAIN OF CUSTODY

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: 7/11/20

ALPHA Job #: L2029287

Client Information

Client: TURNKEY ENV. REST.
Address: 2558 HAMBURG TPKE
BUFFALO, NY 14218
Phone: 716-856-0579
Fax:
Email: mmunley@bm-tk.com

Project Information

Project Name: 1050-1088 NIAGARA STREET SITE
Project Location: 1050-1088 NIAGARA STREET
Project #: T0136-013-005
(Use Project name as Project #)
Project Manager: NATE MUNLEY
ALPHAQuote #:

Turn-Around Time

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

Deliverables

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

Billing Information

X 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 X NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

CAT B

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	TCL VOCs + TICs	TCL SVOCs + TICs	Sample Specific Comments	Total Bottle
29287-01	TMW-3	7/9/20	1352	AQUA	CS	X	X		5
-02	MW-3	↓	1235	↓	↓	X	X		5
-03	MW-6	↓	1512	↓	↓	X	X		5

Container Type: V A
Preservative: B A

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
Chad M Edmonds	7/10/20 900	JMAL AAL	7/10/20 15:35
JMAL AAL	7/10/20 16:40		7/10/20 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)

ANALYTICAL REPORT

Lab Number:	L1952171
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Nate Munley
Phone:	(716) 856-0599
Project Name:	1050-1088 NIAGARA ST. SITE
Project Number:	T0136-013-005
Report Date:	11/11/19

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

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

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1952171-01	TMW-3	WATER	1050-1088 NIAGARA ST.	11/02/19 10:30	11/04/19
L1952171-02	MW-3	WATER	1050-1088 NIAGARA ST.	11/02/19 09:00	11/04/19
L1952171-03	MW-6	WATER	1050-1088 NIAGARA ST.	11/02/19 12:00	11/04/19

Project Name:	1050-1088 NIAGARA ST. SITE	**Lab Number:**	L1952171
Project Number:	T0136-013-005	**Report Date:**	11/11/19

Case Narrative

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

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

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

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

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

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

Project Name:	1050-1088 NIAGARA ST. SITE	**Lab Number:**	L1952171
Project Number:	T0136-013-005	**Report Date:**	11/11/19

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 11/11/19

ORGANICS

VOLATILES

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-01
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 10:30
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/19 11:26
Analyst: PD

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

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-01 Date Collected: 11/02/19 10:30

Client ID: TMW-3 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Tentatively Identified Compounds						
Total TIC Compounds	2.08	J	ug/l			1
Sulfur Dioxide	1.00	NJ	ug/l			1
Unknown	1.08	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	108		70-130

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02 D
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 09:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/11/19 15:04
Analyst: AD

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	ND		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	28		ug/l	1.0	0.32	2
Toluene	4.0	J	ug/l	5.0	1.4	2
Ethylbenzene	1.7	J	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	ND		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

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02 D
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 09:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	6.4		ug/l	5.0	1.4	2
o-Xylene	2.4	J	ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		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	ND		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		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
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	60		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
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	210		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	160		ug/l	20	0.79	2

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02 D
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 09:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	815	J	ug/l			2
Unknown Cycloalkane	71.9	J	ug/l			2
Butane, 2-Methyl-	57.2	NJ	ug/l			2
Unknown Aromatic	60.0	J	ug/l			2
Unknown	156	J	ug/l			2
Unknown Cyclohexane	68.5	J	ug/l			2
Cyclopentane, Methyl-	151	NJ	ug/l			2
Pentane	55.1	NJ	ug/l			2
Pentane, 3-methyl-	55.2	NJ	ug/l			2
Cyclopentane, 1,3-dimethyl-	58.4	NJ	ug/l			2
Unknown	81.8	J	ug/l			2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	90		70-130

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 12:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/19 11:49
Analyst: PD

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

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-03 Date Collected: 11/02/19 12:00

Client ID: MW-6 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.5	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
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	0.53	J	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

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	108		70-130

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/09/19 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1306854-5					
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: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/09/19 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1306854-5					
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

Tentatively Identified Compounds			
Total TIC Compounds	2.80	J	ug/l
Unknown	2.80	J	ug/l

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005
Lab Number: L1952171
Report Date: 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/09/19 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1306854-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	104		70-130

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/19 10:21
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1307219-5					
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: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/19 10:21
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1307219-5					
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/11/19 10:21
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1307219-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE

Project Number: T0136-013-005

Lab Number: L1952171

Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1306854-3 WG1306854-4								
Methylene chloride	90		91		70-130	1		20
1,1-Dichloroethane	85		84		70-130	1		20
Chloroform	89		90		70-130	1		20
Carbon tetrachloride	92		89		63-132	3		20
1,2-Dichloropropane	85		85		70-130	0		20
Dibromochloromethane	94		94		63-130	0		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	96		96		75-130	0		20
Trichlorofluoromethane	86		83		62-150	4		20
1,2-Dichloroethane	88		88		70-130	0		20
1,1,1-Trichloroethane	91		91		67-130	0		20
Bromodichloromethane	88		88		67-130	0		20
trans-1,3-Dichloropropene	79		80		70-130	1		20
cis-1,3-Dichloropropene	89		89		70-130	0		20
Bromoform	99		98		54-136	1		20
1,1,2,2-Tetrachloroethane	87		89		67-130	2		20
Benzene	91		91		70-130	0		20
Toluene	92		91		70-130	1		20
Ethylbenzene	92		91		70-130	1		20
Chloromethane	**62**	Q	**60**	Q	64-130	3		20
Bromomethane	65		74		39-139	13		20
Vinyl chloride	76		74		55-140	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1306854-3 WG1306854-4								
Chloroethane	88		88		55-138	0		20
1,1-Dichloroethene	94		92		61-145	2		20
trans-1,2-Dichloroethene	89		88		70-130	1		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	98		97		70-130	1		20
1,3-Dichlorobenzene	98		99		70-130	1		20
1,4-Dichlorobenzene	95		96		70-130	1		20
Methyl tert butyl ether	88		86		63-130	2		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	59		56		36-147	5		20
Acetone	89		96		58-148	8		20
Carbon disulfide	82		81		51-130	1		20
2-Butanone	87		84		63-138	4		20
4-Methyl-2-pentanone	79		84		59-130	6		20
2-Hexanone	75		75		57-130	0		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	97		100		41-144	3		20
Isopropylbenzene	93		92		70-130	1		20
1,2,3-Trichlorobenzene	99		100		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1306854-3 WG1306854-4								
1,2,4-Trichlorobenzene	97		100		70-130	3		20
Methyl Acetate	80		90		70-130	12		20
Cyclohexane	81		79		70-130	3		20
1,4-Dioxane	84		96		56-162	13		20
Freon-113	92		89		70-130	3		20
Methyl cyclohexane	88		86		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	89		90		70-130
Dibromofluoromethane	107		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1307219-3 WG1307219-4								
Methylene chloride	88		86		70-130	2		20
1,1-Dichloroethane	94		93		70-130	1		20
Chloroform	88		89		70-130	1		20
Carbon tetrachloride	95		95		63-132	0		20
1,2-Dichloropropane	89		89		70-130	0		20
Dibromochloromethane	96		98		63-130	2		20
1,1,2-Trichloroethane	96		94		70-130	2		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	96		96		62-150	0		20
1,2-Dichloroethane	89		89		70-130	0		20
1,1,1-Trichloroethane	93		93		67-130	0		20
Bromodichloromethane	89		89		67-130	0		20
trans-1,3-Dichloropropene	96		96		70-130	0		20
cis-1,3-Dichloropropene	84		86		70-130	2		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	99		100		67-130	1		20
Benzene	89		89		70-130	0		20
Toluene	98		98		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	**250**	Q	**250**	Q	39-139	0		20
Vinyl chloride	110		100		55-140	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE

Project Number: T0136-013-005

Lab Number: L1952171

Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1307219-3 WG1307219-4								
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	94		94		61-145	0		20
trans-1,2-Dichloroethene	93		92		70-130	1		20
Trichloroethene	92		90		70-130	2		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	86		86		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	90		90		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	95		91		36-147	4		20
Acetone	80		77		58-148	4		20
Carbon disulfide	93		92		51-130	1		20
2-Butanone	82		83		63-138	1		20
4-Methyl-2-pentanone	86		86		59-130	0		20
2-Hexanone	94		92		57-130	2		20
Bromochloromethane	92		91		70-130	1		20
1,2-Dibromoethane	97		95		70-130	2		20
1,2-Dibromo-3-chloropropane	92		96		41-144	4		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	98		100		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1307219-3 WG1307219-4								
1,2,4-Trichlorobenzene	100		100		70-130	0		20
Methyl Acetate	88		88		70-130	0		20
Cyclohexane	98		97		70-130	1		20
1,4-Dioxane	88		86		56-162	2		20
Freon-113	97		96		70-130	1		20
Methyl cyclohexane	93		92		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: 1050-1088 NIAGARA ST. SITE
Lab Number: L1952171
Project Number: T0136-013-005
Report Date: 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-01
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 10:30
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/08/19 16:25
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/06/19 21:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	3.6		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	1.6	J	ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-01 Date Collected: 11/02/19 10:30

Client ID: TMW-3 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-01 Date Collected: 11/02/19 10:30

Client ID: TMW-3 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	167	J	ug/l			1
Unknown	37.4	J	ug/l			1
Unknown Alkane	13.3	J	ug/l			1
Unknown	3.53	J	ug/l			1
Unknown	2.69	J	ug/l			1
Unknown Alkane	4.91	J	ug/l			1
Unknown Alkane	13.2	J	ug/l			1
Unknown Organic Acid	15.8	J	ug/l			1
Unknown Phenol	2.84	J	ug/l			1
Unknown	2.47	J	ug/l			1
Unknown	6.36	J	ug/l			1
Unknown	11.4	J	ug/l			1
Unknown Organic Acid	26.3	J	ug/l			1
Aldol Condensates (A)	14.1	J	ug/l			1
Unknown	6.87	J	ug/l			1
Unknown	5.89	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	64		41-149

Project Name: 1050-1088 NIAGARA ST. SITE
Lab Number: L1952171
Project Number: T0136-013-005
Report Date: 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-01
Client ID: TMW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 10:30
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/19 16:45
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 11/06/19 21:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.03	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.73		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.46		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.49		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.77		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.22		ug/l	0.10	0.01	1
Chrysene	0.44		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.10	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.48		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.41		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.11		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.48		ug/l	0.10	0.01	1
Pyrene	0.66		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.07	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-01 Date Collected: 11/02/19 10:30

Client ID: TMW-3 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	80		41-149

Project Name: 1050-1088 NIAGARA ST. SITE
Lab Number: L1952171
Project Number: T0136-013-005
Report Date: 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 09:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/08/19 16:50
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/07/19 00:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02 Date Collected: 11/02/19 09:00

Client ID: MW-3 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	1.3	J	ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02 Date Collected: 11/02/19 09:00

Client ID: MW-3 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Tentatively Identified Compounds						
Total TIC Compounds	595	J	ug/l			1
Cyclohexane, ethyl-	34.9	NJ	ug/l			1
Unknown Cyclohexane	28.2	J	ug/l			1
Unknown	30.6	J	ug/l			1
Unknown Alkane	54.6	J	ug/l			1
Unknown	28.5	J	ug/l			1
Unknown Alkane	36.8	J	ug/l			1
Cyclohexane, propyl-	29.2	NJ	ug/l			1
Unknown Cyclohexane	46.4	J	ug/l			1
Unknown Benzene	60.0	J	ug/l			1
Unknown Cyclohexane	36.2	J	ug/l			1
Indane	97.5	NJ	ug/l			1
Unknown	33.1	J	ug/l			1
Unknown Alkane	26.0	J	ug/l			1
Unknown Cyclohexane	27.5	J	ug/l			1
Unknown	25.3	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	66		41-149

Project Name: 1050-1088 NIAGARA ST. SITE
Lab Number: L1952171
Project Number: T0136-013-005
Report Date: 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02
Client ID: MW-3
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 09:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/19 17:01
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 11/07/19 00:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.12		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.22		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.58		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.12		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.08	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.13		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Chrysene	0.10		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.06	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	0.08	J	ug/l	0.10	0.01	1
Phenanthrene	0.21		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.07	J	ug/l	0.10	0.01	1
Pyrene	0.21		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.10	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-02 Date Collected: 11/02/19 09:00

Client ID: MW-3 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	82		41-149

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 12:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/08/19 17:41
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/07/19 00:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-03 Date Collected: 11/02/19 12:00

Client ID: MW-6 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1
Tentatively Identified Compounds						
Total TIC Compounds	14.7	J	ug/l			1
Unknown	2.40	J	ug/l			1
Aldol Condensates (A)	10.7	J	ug/l			1
Unknown Organic Acid	1.60	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	63		41-149

Project Name: 1050-1088 NIAGARA ST. SITE
Lab Number: L1952171
Project Number: T0136-013-005
Report Date: 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-03
Client ID: MW-6
Sample Location: 1050-1088 NIAGARA ST.

Date Collected: 11/02/19 12:00
Date Received: 11/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/19 17:17
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 11/07/19 00:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.10	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 1050-1088 NIAGARA ST. SITE **Lab Number:** L1952171

Project Number: T0136-013-005 **Report Date:** 11/11/19

SAMPLE RESULTS

Lab ID: L1952171-03 Date Collected: 11/02/19 12:00

Client ID: MW-6 Date Received: 11/04/19

Sample Location: 1050-1088 NIAGARA ST. Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	82		41-149

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005
Lab Number: L1952171
Report Date: 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/07/19 16:45
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 11/06/19 21:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1305513-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005
Lab Number: L1952171
Report Date: 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/07/19 16:45
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 11/06/19 21:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1305513-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	25.8	J	ug/l
Unknown	6.14	J	ug/l
Unknown	2.07	J	ug/l
Aldol Condensates (A)	8.91	J	ug/l
Unknown	8.69	J	ug/l

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005
Lab Number: L1952171
Report Date: 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/07/19 16:45
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 11/06/19 21:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1305513-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	63		41-149

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005
Lab Number: L1952171
Report Date: 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/08/19 13:24
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/06/19 21:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1305514-1					
Acenaphthene	0.04	J	ug/l	0.10	0.01
2-Chloronaphthalene	0.05	J	ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.06	J	ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	0.03	J	ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.03	J	ug/l	0.10	0.01
Phenanthrene	0.04	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005
Lab Number: L1952171
Report Date: 11/11/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/08/19 13:24
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/06/19 21:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1305514-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	86		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE

Project Number: T0136-013-005

Lab Number: L1952171

Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1305513-2 WG1305513-3								
Bis(2-chloroethyl)ether	70		68		40-140	3		30
3,3'-Dichlorobenzidine	64		69		40-140	8		30
2,4-Dinitrotoluene	81		83		48-143	2		30
2,6-Dinitrotoluene	80		84		40-140	5		30
4-Chlorophenyl phenyl ether	75		74		40-140	1		30
4-Bromophenyl phenyl ether	77		76		40-140	1		30
Bis(2-chloroisopropyl)ether	69		65		40-140	6		30
Bis(2-chloroethoxy)methane	71		67		40-140	6		30
Hexachlorocyclopentadiene	62		62		40-140	0		30
Isophorone	79		77		40-140	3		30
Nitrobenzene	72		73		40-140	1		30
NDPA/DPA	79		82		40-140	4		30
n-Nitrosodi-n-propylamine	76		75		29-132	1		30
Bis(2-ethylhexyl)phthalate	83		84		40-140	1		30
Butyl benzyl phthalate	77		79		40-140	3		30
Di-n-butylphthalate	72		73		40-140	1		30
Di-n-octylphthalate	81		83		40-140	2		30
Diethyl phthalate	79		80		40-140	1		30
Dimethyl phthalate	77		79		40-140	3		30
Biphenyl	74		78		40-140	5		30
4-Chloroaniline	71		67		40-140	6		30
2-Nitroaniline	74		82		52-143	10		30
3-Nitroaniline	71		68		25-145	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1305513-2 WG1305513-3								
4-Nitroaniline	70		73		51-143	4		30
Dibenzofuran	78		74		40-140	5		30
1,2,4,5-Tetrachlorobenzene	70		70		2-134	0		30
Acetophenone	74		71		39-129	4		30
2,4,6-Trichlorophenol	75		78		30-130	4		30
p-Chloro-m-cresol	83		86		23-97	4		30
2-Chlorophenol	74		71		27-123	4		30
2,4-Dichlorophenol	76		76		30-130	0		30
2,4-Dimethylphenol	69		74		30-130	7		30
2-Nitrophenol	73		71		30-130	3		30
4-Nitrophenol	**87**	Q	**86**	Q	10-80	1		30
2,4-Dinitrophenol	66		60		20-130	10		30
4,6-Dinitro-o-cresol	81		79		20-164	3		30
Phenol	57		53		12-110	7		30
2-Methylphenol	76		72		30-130	5		30
3-Methylphenol/4-Methylphenol	78		76		30-130	3		30
2,4,5-Trichlorophenol	78		80		30-130	3		30
Carbazole	78		78		55-144	0		30
Atrazine	88		89		40-140	1		30
Benzaldehyde	71		71		40-140	0		30
Caprolactam	43		40		10-130	7		30
2,3,4,6-Tetrachlorophenol	83		82		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1305513-2 WG1305513-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		62		21-120
Phenol-d6	57		54		10-120
Nitrobenzene-d5	61		59		23-120
2-Fluorobiphenyl	56		56		15-120
2,4,6-Tribromophenol	78		80		10-120
4-Terphenyl-d14	54		56		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1305514-2 WG1305514-3								
Acenaphthene	97		99		40-140	2		40
2-Chloronaphthalene	94		97		40-140	3		40
Fluoranthene	99		102		40-140	3		40
Hexachlorobutadiene	91		96		40-140	5		40
Naphthalene	87		91		40-140	4		40
Benzo(a)anthracene	113		116		40-140	3		40
Benzo(a)pyrene	112		118		40-140	5		40
Benzo(b)fluoranthene	119		125		40-140	5		40
Benzo(k)fluoranthene	112		118		40-140	5		40
Chrysene	107		115		40-140	7		40
Acenaphthylene	92		94		40-140	2		40
Anthracene	102		106		40-140	4		40
Benzo(ghi)perylene	123		123		40-140	0		40
Fluorene	100		104		40-140	4		40
Phenanthrene	100		103		40-140	3		40
Dibenzo(a,h)anthracene	122		124		40-140	2		40
Indeno(1,2,3-cd)pyrene	124		129		40-140	4		40
Pyrene	97		100		40-140	3		40
2-Methylnaphthalene	91		96		40-140	5		40
Pentachlorophenol	70		76		40-140	8		40
Hexachlorobenzene	103		106		40-140	3		40
Hexachloroethane	83		87		40-140	5		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1305514-2 WG1305514-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		67		21-120
Phenol-d6	52		56		10-120
Nitrobenzene-d5	78		82		23-120
2-Fluorobiphenyl	85		89		15-120
2,4,6-Tribromophenol	85		87		10-120
4-Terphenyl-d14	80		82		41-149

Project Name: 1050-1088 NIAGARA ST. SITE
Project Number: T0136-013-005

Lab Number: L1952171
Report Date: 11/11/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1952171-01A	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-01B	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-01C	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-01D	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1952171-01E	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1952171-02A	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-02B	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-02C	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-02D	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1952171-02E	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1952171-03A	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-03B	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-03C	Vial HCl preserved	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L1952171-03D	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1952171-03E	Amber 250ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	1050-1088 NIAGARA ST. SITE	**Lab Number:**	L1952171
Project Number:	T0136-013-005	**Report Date:**	11/11/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	1050-1088 NIAGARA ST. SITE	**Lab Number:**	L1952171
Project Number:	T0136-013-005	**Report Date:**	11/11/19

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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

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

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

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

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1050-1088 NIAGARA ST. SITE	**Lab Number:**	L1952171
Project Number:	T0136-013-005	**Report Date:**	11/11/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

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

NEW YORK CHAIN OF CUSTODY

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: 11/5/19

ALPHA Job #: L1952171

Client Information
Client: TURKEY END REST
Address: 2558 HAMBURG TPKE
BUFFALO, NY 14218
Phone: 716-856-0519
Fax:
Email: nmunley@turkeyllc.com

Project Information
Project Name: 1050-1088 NIAGARA ST SITE
Project Location: 1050-1088 NIAGARA ST
Project # T0136-013-005
(Use Project name as Project #) ☐
Project Manager: NATHAN MUNLEY
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:

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	TCL VOCs + TICs	TCL SVOCs + TICs	Sample Specific Comments	Total Bottle
52171-01	TMW-3	11/2/19	1050	AQUA	CQ	x	x		5
-02	MW-3	↓	900	↓	↓	x	x		5
-03	MW-6	↓	1200	↓	↓	x	x		5

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	A
Preservative	B	A

Relinquished By:	Date/Time	Received By:	Date/Time
	11/4/19 815		11/4/19 1420
	11/4/19 1630		11/5/19 0145

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, 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: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

NEW YORK CHAIN OF CUSTODY

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: 4/9/19

ALPHA Job #: L1914072

Client Information
Client: TURNKEY ENV. REST.
Address: 2558 HAMBURG TURNPIKE
BUFFALO, NY 14218
Phone: 716-856-0599
Fax:
Email: nmunley@turnkeyllc.com

Project Information
Project Name: 1050 NIAGARA
Project Location: 1050 NIAGARA
Project # T0136-013-005
(Use Project name as Project #) ☐
Project Manager: NATHAN MUNLEY
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:

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	TCL VOCs + TICs	TCL SVOCs + TICs	Sample Specific Comments	Total Bottle
L1914072-01	TMW-3	4/6/19	1145	AQUA	CB	x	x		5
-02	MW-3	↓	1255			x	x		5
-03	MW-6		1335			x	x		5

Container Type: Y A
Preservative: B A

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
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O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Chad M Schmidt	4/8/19 811	[signature] AAL	4/8/19 1550
[signature] AAL	4/8/19 16:40	[signature]	4/9/19 0105

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