
PERIODIC REVIEW REPORT

275 FRANKLIN STREET SITE (BCP SITE No. C915208)
AND
432 PEARL STREET SITE (BCP SITE No. C915237)

BUFFALO, NEW YORK

May 2019

B0156-018-001

Prepared for:

BUFFALO DEVELOPMENT CORPORATION

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432 Pearl Street Site (BCP Site No. C915237)

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1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site Nos. C915208 and C915237 located in the City of Buffalo, Erie County, New York.

This PRR has been prepared for the subject BCP Sites in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref 1). Appendix A includes the Institutional and Engineering Control (IC/EC) Certification Forms completed based on the Site inspections performed April 17, 2019.

This PRR and associated certifications have been completed on behalf of the BCP Site owner, Buffalo Development Corporation (BDC), to document post-remedial activities covered by the Site Management Plan (SMP; Ref. 2). The post-remedial period covered by this PRR is December 27, 2017 to April 27, 2019 for the 275 Franklin Street Site and December 28, 2017 to April 28, 2019 for the 432 Pearl Street Site.

1.1 Site Background

In October 2006, BDC entered into a Brownfield Cleanup Agreement (BCA) with NYSDEC to investigate and remediate 275-277 Franklin Street and 279 Franklin Street, an approximate 0.27-acre property located in Buffalo, New York. Later, 267 Franklin Street and 432 Pearl Street, approximately 0.7 acres combined, were incorporated into the “432 Pearl Street Site” under BCP Site Number C915237. Both properties are in the County of Erie, New York and encompasses tax parcel numbers 111.38-2-22, 111.38-2-23, 111.38-2-20.1, and 111.38-2-4.1 per Erie County Tax Map records. The Sites are bounded by a restaurant and surface parking lot to the north, Pearl Street to the east, a mixed-use building to the south, and Franklin Street to the west (see Figures 1 and 2).

Neither Site has redevelopment plans outside of the current uses. The BCP Sites were remediated to NYSDEC Part 375 Track 4 restricted-residential soil cleanup objectives (RRSCOs).

1.2 Summary of Historical Investigation Findings

1.2.1 Preliminary Investigations

In September 2004, a Limited Environmental Investigation was performed at 275-277 Franklin Street by Nature's Way Environmental Consultants & Contractors, Inc. The results of that investigation indicated that the 275 Franklin Street Site soils and groundwater were impacted by tetrachloroethene (PCE), a chlorinated volatile organic compound (cVOC) typically associated with dry cleaning operations.

In March-June 2006, Benchmark performed a Preliminary Site Investigation at the BCP Sites. The Preliminary Site Investigation was performed to assess soil/fill materials and soil vapor on-site, and to ascertain if subsurface environmental conditions on these parcels were likely to impact redevelopment of the BCP Sites. The results of the investigation indicated that the 275 Franklin Street Site soils had been impacted by semi-volatile organic compounds (SVOCs), mercury, and lead. In addition, soil vapor samples collected from both BCP Sites contained elevated concentrations of cVOCs. Field screening of soil samples using a photoionization detector (PID) did not indicate VOC concentrations above background concentration

1.2.2 Remedial Investigation (RI)

RI activities were completed in November 2006, December 2006, and January 2007 for both BCP Sites. The following analytical results were obtained during the RI:

Soil/Fill

- Concentrations of pesticides, PCBs, and metals in subsurface soil were below Part 375 RRSCOs on the 275 Franklin Street Site.
- Concentrations of PCE were detected above RRSCOs on the 275 Franklin Street Site with the highest concentration (2,200 mg/kg) in the 8- to 10-foot interval in boring MW-6 during the April 2008 sampling event.
- Concentrations of VOCs, pesticides, and PCBs in subsurface soil were below Part 375 RRSCOs on the 432 Pearl Street Site.
- Concentrations of lead and mercury were detected slightly above their respective RRSCOs at one sample location on the 432 Pearl Street Site.
- PAHs, including benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)pyrene, benzo(a)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene

were detected in subsurface soil above RRSCOs at one or two samples locations on the 432 Pearl Street Site.

- Soil samples collected by the NYSDEC and analyzed for VOCs during their 2009 Off-Site Investigation did not contain VOCs above Part 375 Unrestricted SCOs (USCOs).

Groundwater

- Total inorganic compound (arsenic, chromium, copper, iron, lead, manganese, and/or sodium) concentrations exceeded NYSDEC Class GA groundwater quality standards/guidance values (GWQS/GVs) at sample locations PZ-5, PZ-6, MW-1, and/or MW-2. These compounds either slightly exceeded their respective GWQS/GVs and/or are naturally occurring minerals.
- PAHs were detected only in MW-2 (and/or its blind duplicate) at estimated concentrations that exceeded their respective Class GA GWQSs/GVs.
- cVOCs are the primary contaminants of concern in shallow groundwater with PCE and/or its chemical breakdown products, trichloroethene (TCE) and cis-1,2-dichloroethene (DCE), detected above GWQS/GVs on both BCP Sites and off-site.
- The highest cVOCs concentrations were generally observed in the shallow groundwater in the area of the former drycleaner on 275 Franklin Street Site and immediately downgradient on the 267 Franklin Street parcel on the 432 Pearl Street Site.
- Deep groundwater across both BCP Sites contains low (residual) concentrations of cVOCs.

Soil Vapor Intrusion

- Soil vapor concentrations at the 432 Pearl Street Site ranged from non-detect to 140 ug/m³ (PCE). Soil vapor results from the 275 Franklin Street Site reported PCE (14,000 ug/m³), TCE (70 ug/m³), and 1,1,1-trichloroethane (71 ug/m³) concentrations among other constituents.
- Soil vapor samples collected from the 267 Franklin Street apartment building (part of the 432 Pearl Street Site) by NYSDEC exceeded NYSDOH air matrix criteria, indicating the need for on-site sub-slab soil vapor mitigation to minimize current exposure.
- Soil vapor samples collected from 265 Franklin Street (off-site) did not exceed the NYSDOH air matrix criteria.

1.3 Compliance

At the time of the annual Site inspection (04/17/19), the Site was fully compliant with the NYSDEC-approved SMP (Ref 2) except for minor cover system repair required along the boundary between 267 and 275-277 Franklin Street, which has been repaired (see Appendix B, Photos 7 & 8).

1.4 Recommendations

Based on observations recorded during the Site inspection and IC/EC certification, no modifications are recommended for these Sites.

2.0 SITE OVERVIEW

All remediated parcels included in 275 Franklin Street Site and 432 Pearl Street Site are subject to a comprehensive, site-wide SMP that identifies requirements for monitoring and maintenance of IC/ECs and procedures for post-remedial excavation and related activities. Final remedial activities undertaken at both Sites are described below.

2.1 Summary of Remedial Actions

Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC (Benchmark-TurnKey) was retained by BDC to serve as the design-builder and Engineer of Record for the BCP activities with oversight provided by the NYSDEC.

2.1.1 Interim Remedial Measures (IRMs)

On July 1, 2008, the NYSDEC approved the IRM Work Plan (Ref. 3) prepared by Benchmark to identify the scope of the planned remedial measures for the 275 Franklin Street Site and the means by which they will be completed. Remedial measures were implemented from summer 2008 through fall 2009. The NYSDEC Division of Environmental Remediation monitored the remedial actions to verify the work was performed in accordance with the BCA, the approved IRM Work Plan, and DER-10 (Ref. 1). IRMs were implemented on behalf of BDC to promptly address on-site soil and groundwater on the 275 Franklin Street Site impacted by cVOCs to immediately mitigate public health and environmental concerns.

Soil Vapor Extraction System

A soil vapor extraction (SVE) system was installed on the 275 Franklin Street Site and operated continuously from December 8, 2008 until February 2009 when it was temporarily shut-down due to winter weather. The system was restarted on March 11, 2009 and ran continuously through September 2009. Post-IRM soil samples collected on September 17, 2009 were compared to pre-IRM data from April 2008 and Part 375 RRSCOs. The February 2009 data show significant reductions of cVOCs in unsaturated soils to well below RRSCOs

and below unrestricted SCOs (USCOs). Toxicity Characteristic Leaching Procedure (TCLP) analysis also verified that these remediated soils were not characteristically hazardous.

In-Situ Groundwater Treatment

In August 2008, in-situ enhanced bioremediation of cVOCs in groundwater was performed via injection of hydrogen release compound (HRC) into 14 delivery points at 275-277 Franklin and 21 delivery points at 279 Franklin. Subsequent to HRC injection, a groundwater sampling program, consisting of eight monitoring events conducted between October 2008 and June 2012, was implemented to evaluate the effectiveness of the in-situ groundwater treatment program. The data generally showed lower trending residual concentrations of total cVOCs in monitoring wells on both BCP Sites with the exception of shallow well MW-5 (located on the 275 Franklin Street Site), which contained relatively high residual cVOC concentrations.

Active Sub-Slab Depressurization System

Although not part of the IRM Work Plan, the NYSDEC installed an active sub-slab depressurization (ASD) system within the 267 Franklin Street apartment building (on the 432 Pearl Street Site) prior to BDC's ownership of that parcel. Malcolm Pirnie, Inc. performed initial communication testing of the sub-slab to evaluate the number of extraction points and type of exhaust fans required to optimize the systems performance under the specific Site conditions. The communication testing and system installation is detailed in the Immediate Investigation Work Assignment Summary Report, 275 Franklin Street Site, Buffalo, NY prepared by Malcolm Pirnie, Inc. in December 2009 for the NYSDEC (Ref. 4). Two separate ASD systems (one on the south side and one on the north side) were designed and installed by Mitigation Tech under contract to Malcolm Pirnie, Inc.:

- Each system is made up of a network of 3-inch and 4-inch diameter PVC piping that provides multiple suction points below the concrete basement floor. The systems provide continuous vacuum in the sub-slab through operation of in-line fans mounted at the end of the system above the roof line.
- System 1 has five suction points and two RadonAway RP-265 series centrifugal in-line fans. System 2 has three suction points and one RadonAway GP-501 series centrifugal in-line fan. U-tube monometers for each system are installed on

vertical risers to provide evidence and measurement of system vacuum. Figure 4 shows the layout of the ASD system.

- Malcolm Pirnie performed pre-ASD system installation air sampling events in May and October 2008, and the system began operation in December 2008. Post-ASD system activation air sampling events were performed in February and September 2009. Subsequent to installation of the vapor mitigation system, measured concentrations of TCE and PCE were significantly reduced. Where detected in the September 2009 indoor air samples, TCE and PCE concentrations were well below the recommended DOH action levels.

The ASD is maintained and monitored in accordance with the NYSDEC-approved SMP. In the summer 2015, BDC replaced (in kind) the RadonAway GP-501 Series centrifugal in-line fan.

2.1.2 Final Remedial Actions

In April 2010, BDC submitted a RI/AA/IRM Report (Ref. 5) to NYSDEC that summarized the RI, supplemental remedial activities, and the IRM completed in 2008-2009. NYSDEC provided a comment letter to that report in February 2011 that, amongst other items, required additional groundwater remedial measures beyond the proposed in-situ HRC injections in the vicinity of MW-5 “source area” on the 275 Franklin Street Site in order to mitigate off-site migration of cVOCs.

The Revised RI/AA/IRM Report was submitted in January 2013. NYSDEC provided additional comments in July 2013 and prepared draft Proposed Decision Documents for each BCP Site. The final RI/AA/IRM Report was submitted to NYSDEC in July 2013 and approved September 30, 2013.

The following is a summary of the Remedial Actions performed at the BCP Sites:

1. Maintenance of the existing cover system to allow for continued commercial use of the Site.
2. Injection of a solution, zero valent iron (ZVI) and nutrients, into Site groundwater in April 2014 to enhance both abiotic and biological reductive processes.
3. Injection of a chemical oxidant into Site groundwater and saturated “smear zone” interval in March and April 2016 to destroy organic contaminants (Ref. 6).

4. Excavation of source area soil/fill in December 2016 with application of a chemical oxidant to excavation bottom to address residual impact prior to backfilling (Ref. 7). The area was backfilled with clean overburden soil followed by demarcation fabric then clean imported sand and stone. The asphalt cover system was reinstalled to match surrounding grade.
5. Execution of recording of an Environmental Easement to restrict groundwater and land use and prevent future exposure to any contamination remaining at the Site.
6. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;

These additional final remedial actions were completed at the Site from April 2014 to December 2016; the asphalt repair was completed in September 2017. The remedial program was successful in achieving the remedial objectives for the Sites and are described in more detail in the NYSDEC-approved July 2017 Final Engineering Report (FER; Ref. 8). NYSDEC issued Certificates of Completion (COCs) for 275 Franklin Street Site on December 27, 2017 and 432 Pearl Street Site on December 28, 2017.

3.0 REMEDY PERFORMANCE

A post-remedial Site inspection involving a walk-over of both BCP Sites was performed on April 17, 2019 by Ms. Lori Riker, P.E. of Benchmark to visually observe and document the use of the Site for restricted-residential use, confirm absence of Site groundwater use, inspect the integrity of the cover system, confirm ASD system operation, and verify conformance with other requirements under the SMP. The Site inspection confirmed that the controls are in-place and functioning as intended in accordance with the SMP. The necessary minor cover system repair was completed on May 21, 2019.

Appendix A includes the completed IC/EC Certification forms. Appendix B includes photographs taken during the April 17, 2019 inspection and following the cover system repair.

4.0 SITE MANAGEMENT PLAN

A site-wide SMP was prepared for the 275 Franklin Street and 432 Pearl Street Sites in July 2017 and approved by NYSDEC. Key components of the SMP are described below.

4.1 Institutional and Engineering Control (IC/EC) Plan

Since remaining contaminated soil/fill and groundwater exists beneath both 275 Franklin Street and 432 Pearl Street Sites, IC/ECs are required to protect public health and the environment. The IC/EC Plan describes the procedures for the implementation and management of all IC/ECs on the Sites.

4.1.1 *Institutional Controls*

The following institutional controls apply to both Sites:

- The property may only be used for restricted-residential or commercial use provided that the long-term IC/ECs included in the SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted and residential use, without additional remediation and amendment of the Environmental Easements, as approved by the NYSDEC.
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- The use of groundwater underlying the property as a source of potable or process water is prohibited without necessary water quality treatment, as determined by the NYSDOH or County DOH, rendering it safe for intended use.
- The potential for vapor intrusion must be evaluated for any new buildings developed on the property, and any potential impacts that are identified must be monitored or mitigated.
- Compliance with the Operation & Maintenance Plan, included as Section 4 of the SMP (Ref. 2), for the maintenance and monitoring of the existing vapor intrusion ASD system within the 14-unit apartment building at 267 Franklin Street.
- Vegetable gardens and farming on the BCP Sites are prohibited.
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and

environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow, and will be made by an expert that the NYSDEC finds acceptable.

4.1.2 Engineering Controls

Engineering controls include:

- Cover System (both Sites): The cover system, including building foundations, concrete sidewalks, concrete or asphalt driveways, parking areas, and landscaped vegetated areas, must be maintained in compliance with the SMP.
- In-Situ Plume Reduction: On the 275-277 Franklin Street property, PersulfOx was added to the base of the 2016 excavation to address residual groundwater contamination in-situ.
- Vapor Intrusion Mitigation: Requires placement of a vapor barrier beneath newly installed building concrete floor slabs for both Sites and continued operation of the ASD system installed within the 267 Franklin Street apartment building (on the 432 Pearl Street Site).

At the time of the Site inspection, the Sites covered by this PRR were fully compliant with all IC/EC requirements except for minor repair needed on the cover system as discussed in Section 4.3.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in Appendix B of the approved SMP. The EWP provides guidelines for the management of soil/fill material during any future intrusive activities. Any intrusive work that will penetrate the cover system, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system, must be performed in compliance with the EWP and conducted in accordance with a site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) included with the SMP.

The cover system was inspected during the annual Site inspection, and the minor repair was performed in accordance with the SMP.

4.3 Reporting Period Site Work

Intrusive work completed at the Site after issuance of the COC included removal and replacement of one piezometer (renamed to PZ-4R) located on the 275 Franklin Street Site along with replacement of six piezometer road boxes in September 2018. Piezometer PZ-4 PVC piping was pulled and the well backfilled with bentonite chips. Minimal spoils (subbase stone) were generated during repair of road boxes for piezometers PZ-5, PZ-6, PZ-11, PZ-12, PZ-13 and PZ-14. Spoils generated during the intrusive work were added to on-site investigation derived waste (IDW) drums. Minor cover system repair was completed on May 21, 2019 at the boundary of 267 Franklin Street and 275-277 Franklin Street. The snow was plowed and piled in this area resulting in a collection of asphalt and debris. There were no intrusive activities requiring management of on-site soil or fill material, placement of backfill materials, or disturbance of the cover system during the monitoring period.

Four 55-gallon drums staged in the northeast corner of the 267 Franklin Street apartment building parking lot were transported off-site for disposal on March 29, 2019. The drums contained IDW generated during the installation of monitoring wells MW-7 and MW-5R and piezometer PZ-4R as well as spoils generated during piezometer repairs. Waste characterization samples were collected from the drums for analysis. Appendix D includes the waste profile, disposal facility approval, waste manifest and analytical data.

4.4 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the IC/ECs employed on the Sites are unchanged from the original design and/or previous certification. The Annual Certification includes a Site inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to 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.

Inspection of 275 Franklin Street Site and 432 Pearl Street Site was conducted by Ms. Lori Riker, P.E. of Benchmark on April 17, 2019. Ms. Riker is a licensed and registered NY State Professional Engineer, which meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, no new redevelopment activities were noted on either the 275 Franklin Street or 432 Pearl Street Sites. The asphalt cover present on both Sites was intact and functioning as intended except for a small area between 267 and 275-277 Franklin Street, which was subsequently repaired. No observable indication of intrusive activities was noted during the Site inspection.

Appendix A includes the completed Site Management PRR Notice – Institutional and Engineering Controls Certification Forms. Appendix B includes a PRR photo log.

4.5 Operation, Monitoring and Maintenance Plan

The Operation, Monitoring and Maintenance (OM&M) Plan describes the measures necessary to operate, monitor, and maintain the mechanical components of the remedy selected for the Site and is more fully described in Section 4.0 of the SMP.

Information on non-mechanical Engineering Controls (i.e., cover system) is provided in Section 4.1 of this PRR.

4.5.1 Sub-Slab Depressurization System

The ASD system manometers and roof-top fans were inspected by Ms. Lori Riker, P.E. of Benchmark. The vacuum readings (in H₂O) from each systems' u-tube manometers at the time of the inspection were 1.5 inches of water column (w.c.) at ASD System #1 and 0.5-inches w.c. at ASD System #2. At the time of the inspection, readings confirmed adequate depressurization and fans were operating as designed.

Figure 4 provides a layout of the system depicting the piping, fan locations, and extraction points. ASD system installation and manual information is included in Appendix H of the SMP (Ref. 2).

5.0 GROUNDWATER MONITORING

Groundwater monitoring events were completed in general accordance with the SMP. Sampling of piezometers PZ-4R, PZ-5, PZ-6, PZ-11, PZ-12, PZ-13, PZ-14 and monitoring wells MW-5R, MW-23S, MW-24S and MW-24D was completed on November 12, 2018 and April 5, 2019. NYSDEC's subcontractor completed off-site sampling on February 18, 2019, which included sampling of wells MW-24D, MW-25S and MW-26S.

Post-remedial groundwater and performance monitoring consisted of collecting groundwater samples using low-flow sampling procedures per Benchmark's Field Operating Procedure (FOP) contained in Appendix E of the SMP. Table 1 summarizes the monitoring well and piezometer construction details. Table 2 provides groundwater elevation data between October 2008 and April 2019. Figures 5 and 6 present the groundwater isopotential maps for the November 2018 and April 2019 sampling events. Groundwater flow is consistent with previous figures, flowing southwest across the site. Figures 7 and 8 present the isoconcentration maps for total cVOCs using the November 2018 and April 2019 groundwater data.

Groundwater samples from each of the sampled wells/piezometers were analyzed for TCL VOCs per USEPA Method 8260. Field parameters including pH, temperature, specific conductance, turbidity, dissolved oxygen, and oxidation-reduction potential were also collected. Groundwater samples were submitted under chain-of-custody command to Alpha Analytical, a NYSDOH ELAP laboratory, for analysis. Appendix C includes the laboratory analytical data packages, field notes, and data usability summary reports (DUSRs).

Table 3 summarizes analytical data from recent as well as historic groundwater monitoring events with comparison to Class GA GWQS/GVs as listed in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1). Benchmark has performed four groundwater sampling events at four monitoring wells and seven piezometers since the 2016 remedial excavation. On-site and off-site groundwater quality results are discussed below.

On-Site:

Total cVOC (specifically cis-1,2-DCE, PCE and TCE) concentrations decreased following excavation except for at piezometer PZ-4R. Piezometer PZ-13 showed an initial

decrease in cVOC concentrations after excavating; however, no apparent trend was observed in the four subsequent sampling events. Monitoring well MW-5R (former source area well) had a 99.99% reduction in both total cVOCs and PCE concentrations between the pre- and post-excavation sampling. Although results indicate a decreasing trend in many of the monitoring locations, several locations' April 2019 results remain above Class GA GWQS/GVs as summarized below:

- PCE was detected at concentrations above its GWQS/GV (5 parts per billion; ppb) at all on-site piezometers and monitoring well MW-5R, with concentrations ranging from 150 to 4,100 ppb. An overall concentration decrease was observed at piezometers PZ-5, PZ-6, PZ-11 and PZ-12 over the four post-excavation sampling events.
- TCE was detected at concentrations above its GWQS/GV (5 ppb) at piezometers PZ-4R, PZ-11, PZ-13, PZ-14 and monitoring well MW-5R, with concentrations ranging from 21 to 300 ppb. A steady concentration decrease was observed at piezometer PZ-4R.
- Cis-1,2-DCE was detected above its GWQS/GV (5 ppb) at piezometers PZ-4R, PZ-13, PZ-14 and monitoring well MW-5R, with concentrations ranging from 38 to 280 ppb. PZ-4R and PZ-14 showed a steady concentration decrease since the initial post-excavation sampling event.
- Vinyl chloride (VC) was only detected in piezometers PZ-13 (53 ppb) and PZ-14 (30 ppb), both of which are above its GWQS/GV (2 ppb). Over the four post-excavation sampling events, a general concentration decrease was observed at PZ-14.

Several on-site monitoring locations indicate decreasing trends, affirming that remedial actions have been effective in removing source contamination and are continuing to degrade contaminants of concern.

Off-Site:

Off-site monitoring wells include: MW-23S and MW-24S (sampled by Benchmark), MW-24D (sampled by Benchmark and NYSDEC), and MW-25S and MW-26S (sampled by NYSDEC). Total cVOC (specifically PCE) concentrations in wells MW-23S and MW-24S have steadily decreased over the four post-excavation sampling events. As of the April 2019 sampling event, PCE is the only parameter exceeding its GWQS/GV at well MW-23S. Cis-1,2-DCE, PCE, and TCE concentrations are above GWQS/GVs at well MW-24S. Shallow

off-site groundwater results at wells MW-23S and MW-24S suggest a continued degradation of cVOCs immediately downgradient from the Site.

An increase in PCE, TCE and cis-1,2-DCE concentrations have been observed at well MW-24D during the 2018 and 2019 sampling events; PCE and TCE concentrations were below GWQS/GVs during the 2017 sampling events. An increase in cVOCs at well MW-25S was observed during the NYSDEC's February 2019 sampling event. The PCE concentration at well MW-26S decreased between the 2017 and 2019 sampling events, with a slight increase in PCE breakdown products. cVOC concentrations in wells MW-25S and MW-26S remain above GWQS/GVs.

6.0 CONCLUSIONS AND RECOMMENDATIONS

At the time of the Site inspection, 275 Franklin Street and 432 Pearl Street Sites complied with the SMP except for required minor repair to the cover system at one location, which was corrected on May 21, 2019. No modifications are recommended for these Sites at this time.

7.0 DECLARATION/LIMITATIONS

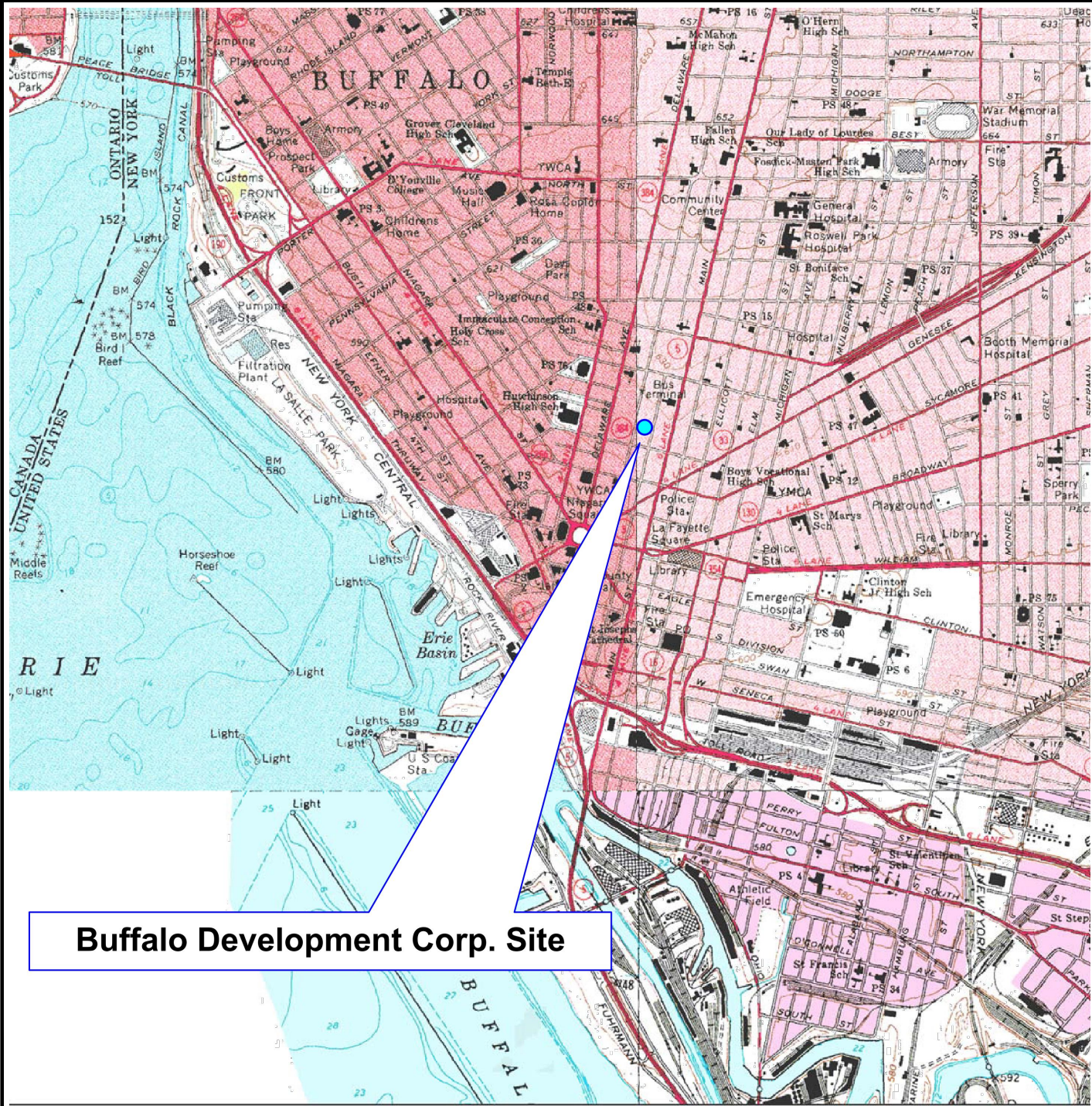
This PRR has been prepared for the exclusive use of Buffalo Development Corporation. The contents of this PRR are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of Buffalo Development Corporation. Use of or reliance upon this PRR or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

8.0 REFERENCES

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7. Benchmark Environmental Engineering & Science, PLLC. *Remedial Action Work Plan – Revision 1, 275 Franklin Street Site, Buffalo, New York, BCP Site No. C915208*. November 22, 2016
8. Benchmark Environmental Engineering & Science, PLLC. *Final Engineering Report, 275 Franklin Street Site, BCP Site No. C915208 and 432 Pearl Street Site, BCP Site No. C915237, Buffalo, New York*. October 2017.

FIGURES

FIGURE 1



Buffalo Development Corp. Site



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

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

275 FRANKLIN STREET & 432 PEARL STREET SITES
BUFFALO, NEW YORK
BCP NO. C915208 & C915237

PREPARED FOR

BUFFALO DEVELOPMENT CORPORATION

PROJECT NO.: 0156-016-002

DATE: MAY 2019

DRAFTED BY: BCH

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LEGEND:

- 275 FRANKLIN STREET BCP SITE (BCP NO. C915208)
- 432 PEARL STREET BCP SITE (BCP NO. C915237)
- EXISTING BUILDING
- PARCEL LINE
- FENCE
- MW-1 DEEP (1) / INTERMEDIATE (2) MONITORING WELL
- MW-23S OFF-SITE SHALLOW MONITORING WELL (5)
- MW-22S OFF-SITE SHALLOW MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-23D OFF-SITE DEEP MONITORING WELL (2)
- MW-22D OFF-SITE DEEP MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-5R SHALLOW MONITORING WELL
- PZ-4 SHALLOW PIEZOMETER

SITE PLAN (AERIAL)
PERIODIC REVIEW REPORT

275 FRANKLIN STREET SITE
BUFFALO, NEW YORK
BCP NO. C915208

PREPARED FOR

BUFFALO DEVELOPMENT CORPORATION



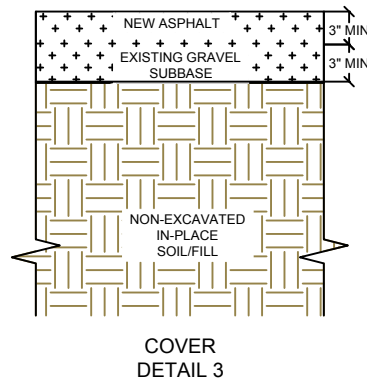
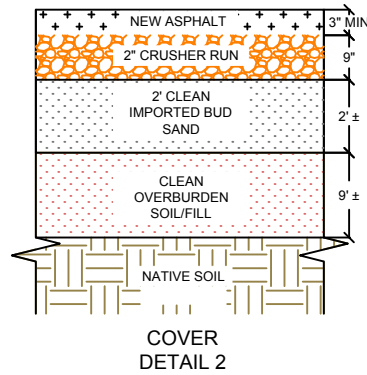
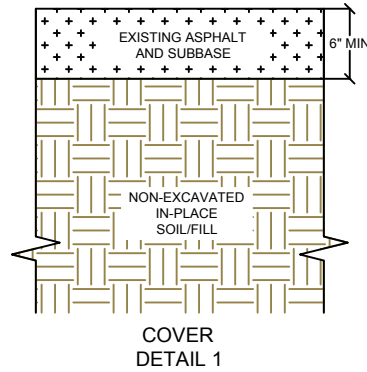
JOB NO.: 0156-016-002

FIGURE 2

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LEGEND:

- 275 FRANKLIN STREET BCP SITE (BCP NO. C915208)
- 432 PEARL STREET BCP SITE (BCP NO. C915237)
- EXISTING BUILDING
- SEE COVER SYSTEM DETAIL 1
- SEE COVER SYSTEM DETAIL 2 (REMEDIAL EXCAVATION AREA)
- SEE COVER SYSTEM DETAIL 3 (NEW ASPHALT AREA)
- PARCEL LINE



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



SITE WIDE COVER SYSTEM
PERIODIC REVIEW REPORT
275 FRANKLIN STREET & 432 PEARL STREET SITES
BUFFALO, NEW YORK
BCP NO. C915208 & C915237
PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

BENCHMARK
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SCIENCE, PLLC
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FIGURE 3

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DATE: MAY 2019
DRAFTED BY: CMC

LEGEND:

- ▭ 267 FRANKLIN STREET APARTMENT BUILDING (432 PEARL STREET BCP SITE)
- ASD SYSTEM 1 (5 SUBSLAB SUCTION POINTS): RP-265 Series Centrifugal In-Line Fans (2)
- ASD SYSTEM 2 (3 SUBSLAB SUCTION POINTS): GP-501 Series Centrifugal In-Line Fan (1)
- RADONAWAY IN-LINE FAN (3)

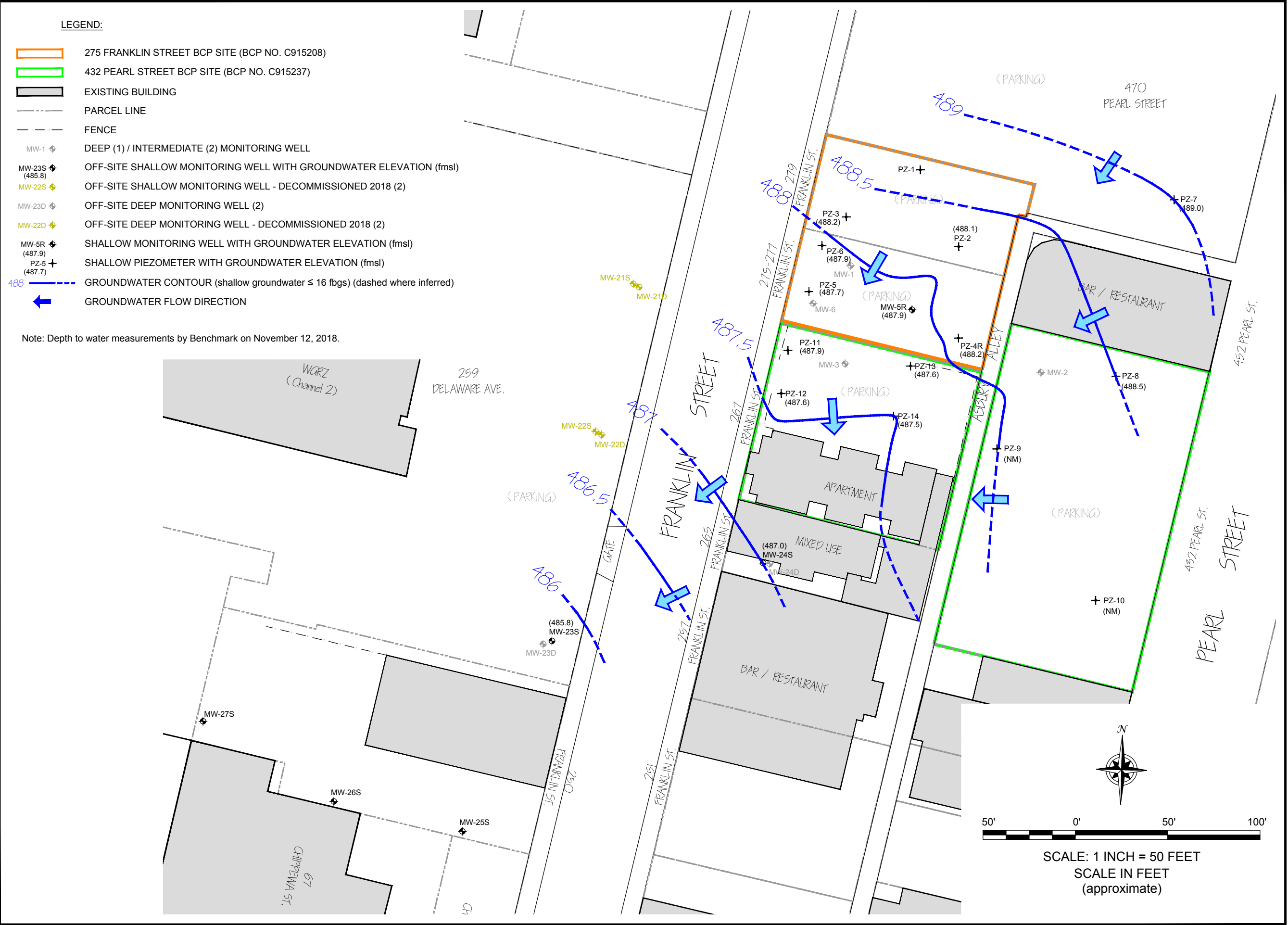
NOTES:

1. THIS FIGURE WAS DERIVED FROM THE MALCOLM PIRNIE IMMEDIATE INVESTIGATION WORK ASSIGNMENT SUMMARY REPORT DATED DECEMBER 2009.



DATE: MAY 2019
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FIGURE 4



LEGEND:

- 275 FRANKLIN STREET BCP SITE (BCP NO. C915208)
- 432 PEARL STREET BCP SITE (BCP NO. C915237)
- EXISTING BUILDING
- PARCEL LINE
- FENCE
- MW-1 + DEEP (1) / INTERMEDIATE (2) MONITORING WELL
- MW-23S + (485.8) OFF-SITE SHALLOW MONITORING WELL WITH GROUNDWATER ELEVATION (fmsl)
- MW-22S + OFF-SITE SHALLOW MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-23D + OFF-SITE DEEP MONITORING WELL (2)
- MW-22D + OFF-SITE DEEP MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-5R + (487.9) SHALLOW MONITORING WELL WITH GROUNDWATER ELEVATION (fmsl)
- PZ-5 + (487.7) SHALLOW PIEZOMETER WITH GROUNDWATER ELEVATION (fmsl)
- 488 --- GROUNDWATER CONTOUR (shallow groundwater \leq 16 fbg) (dashed where inferred)
- ← GROUNDWATER FLOW DIRECTION

Note: Depth to water measurements by Benchmark on November 12, 2018.

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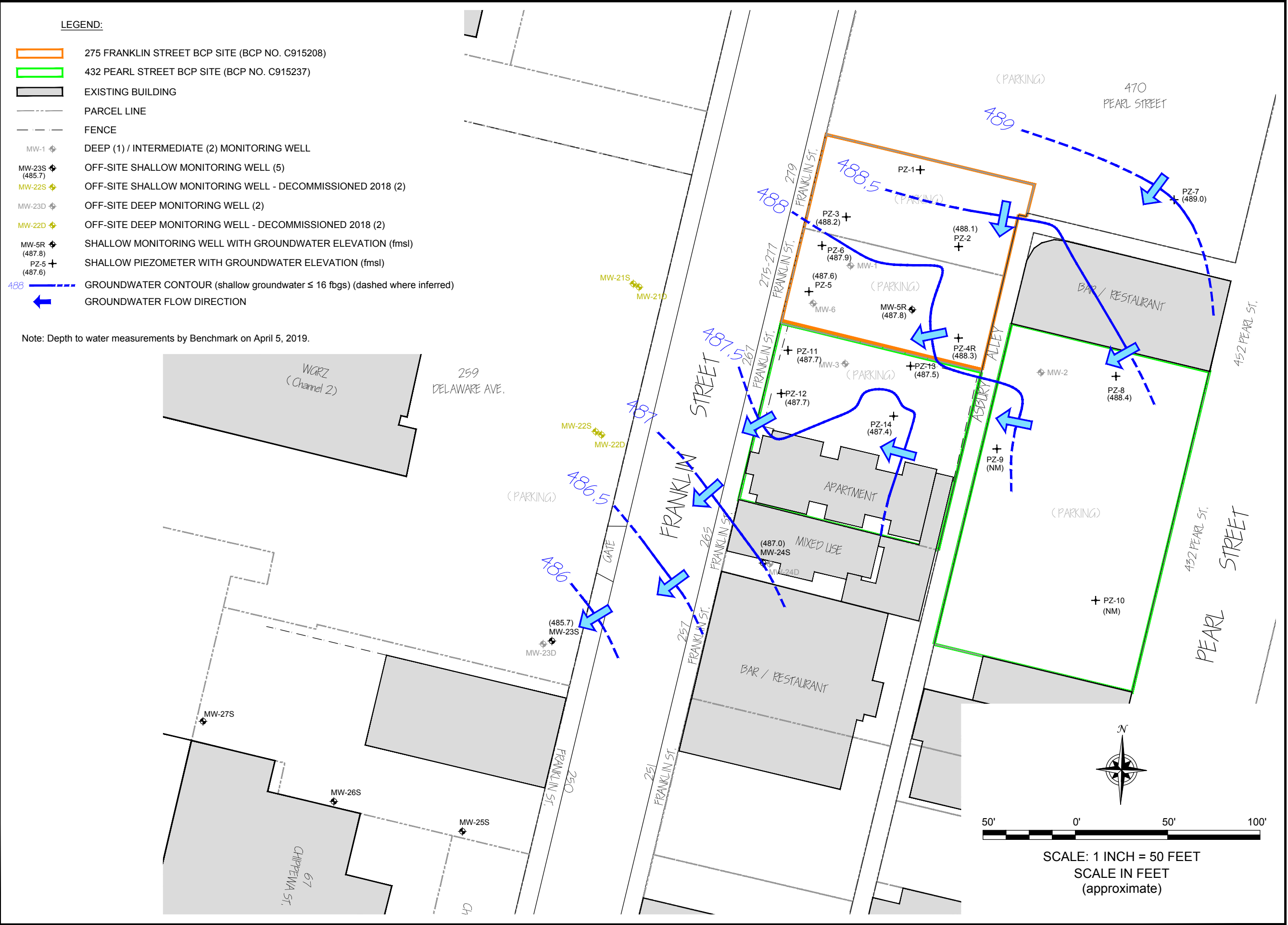
JOB NO.: 0156-018-001

ISOPOTENTIAL MAP - NOVEMBER 2018
 PERIODIC REVIEW REPORT
 275 FRANKLIN STREET SITE
 BUFFALO, NEW YORK
 BCP NO. C915208
 PREPARED FOR
 BUFFALO DEVELOPMENT CORPORATION

FIGURE 5

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DATE: MAY 2019
 DRAFTED BY: CMC



LEGEND:

- 275 FRANKLIN STREET BCP SITE (BCP NO. C915208)
- 432 PEARL STREET BCP SITE (BCP NO. C915237)
- EXISTING BUILDING
- PARCEL LINE
- FENCE
- MW-1 + DEEP (1) / INTERMEDIATE (2) MONITORING WELL
- MW-23S + (485.7) OFF-SITE SHALLOW MONITORING WELL (5)
- MW-22S + (487.6) OFF-SITE SHALLOW MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-23D + OFF-SITE DEEP MONITORING WELL (2)
- MW-22D + OFF-SITE DEEP MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-5R + (487.8) SHALLOW MONITORING WELL WITH GROUNDWATER ELEVATION (fmsl)
- PZ-5 + (487.6) SHALLOW PIEZOMETER WITH GROUNDWATER ELEVATION (fmsl)
- 488 --- GROUNDWATER CONTOUR (shallow groundwater ≤ 16 fbg) (dashed where inferred)
- GROUNDWATER FLOW DIRECTION

Note: Depth to water measurements by Benchmark on April 5, 2019.

BENCHMARK
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2568 HAMBURG TURNPIKE
 SUITE 300
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JOB NO.: 0156-018-001

ISOPOTENTIAL MAP - APRIL 2019
 PERIODIC REVIEW REPORT
 275 FRANKLIN STREET SITE
 BUFFALO, NEW YORK
 BCP NO. C915208
 PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

FIGURE 6

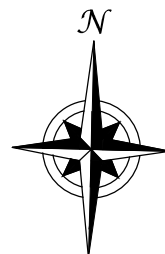
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DATE: MAY 2019
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LEGEND:

- 275 FRANKLIN STREET BCP SITE (BCP NO. C915208)
- 432 PEARL STREET BCP SITE (BCP NO. C915237)
- EXISTING BUILDING
- PARCEL LINE
- FENCE
- MW-1 + DEEP / INTERMEDIATE / OFF-SITE MONITORING WELL
- MW-23S + OFF-SITE SHALLOW MONITORING WELL (2) (NYSDEC, July 2009)
- MW-22S + OFF-SITE SHALLOW MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-23D + OFF-SITE DEEP MONITORING WELL (2) (NYSDEC, July 2009)
- MW-22D + OFF-SITE DEEP MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-26S + OFF-SITE SHALLOW MONITORING WELL (3) (NYSDEC, September 2012)
- MW-5R + SHALLOW MONITORING WELL
- PZ-4 + SHALLOW PIEZOMETER
- 14 TOTAL cVOCs CONCENTRATION (ug/L)
- TOTAL cVOCs ISOCONCENTRATION CONTOURS (DASHED WHERE INFERRED)
- TOTAL cVOCs CONCENTRATION OF 1,000 - 10,000 ug/L
- TOTAL cVOCs CONCENTRATION OF 100 - 1,000 ug/L
- TOTAL cVOCs CONCENTRATION OF 5 - 100 ug/L



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

TOTAL cVOCs ISOCONCENTRATION MAP
POST COC 1st SEMI-ANNUAL SAMPLING EVENT (11/12/18)
PERIODIC REVIEW REPORT

275 FRANKLIN STREET & 432 PEARL STREET SITES
BUFFALO, NEW YORK
BCP NO. C915208 & C915237
PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

FIGURE 7

BENCHMARK
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2558 HAMBURG TURNPIKE
SUITE 300
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JOB NO.: 0156-018-001

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DATE: MAY 2019
DRAFTED BY: CMC



LEGEND:

- 275 FRANKLIN STREET BCP SITE (BCP NO. C915208)
- 432 PEARL STREET BCP SITE (BCP NO. C915237)
- EXISTING BUILDING
- PARCEL LINE
- FENCE
- MW-1 DEEP / INTERMEDIATE / OFF-SITE MONITORING WELL
- MW-23S OFF-SITE SHALLOW MONITORING WELL (2) (NYSDEC, July 2009)
- MW-22S OFF-SITE SHALLOW MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-23D OFF-SITE DEEP MONITORING WELL (2) (NYSDEC, July 2009)
- MW-22D OFF-SITE DEEP MONITORING WELL - DECOMMISSIONED 2018 (2)
- MW-26S OFF-SITE SHALLOW MONITORING WELL (3) (NYSDEC, September 2012)
- MW-5 SHALLOW MONITORING WELL
- PZ-4 SHALLOW PIEZOMETER
- 14 TOTAL cVOCs CONCENTRATION (ug/L)
- TOTAL cVOCs ISOCONCENTRATION CONTOURS (DASHED WHERE INFERRED)
- TOTAL cVOCs CONCENTRATION OF 1,000 - 10,000 ug/L
- TOTAL cVOCs CONCENTRATION OF 100 - 1,000 ug/L
- TOTAL cVOCs CONCENTRATION OF 5 - 100 ug/L



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

TOTAL cVOCs ISOCONCENTRATION MAP
POST COC 2nd SEMI-ANNUAL SAMPLING EVENT (04/15/19)

PERIODIC REVIEW REPORT
275 FRANKLIN STREET & 432 PEARL STREET SITES
BUFFALO, NEW YORK
BCP NO. C915208 & C915237
PREPARED FOR
BUFFALO DEVELOPMENT CORPORATION

FIGURE 8

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

JOB NO.: 0156-018-001

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TABLES

TABLE 1

SUMMARY OF MONITORING WELL / PIEZOMETER CONSTRUCTION DETAILS ^{1,2}

275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Location ³	Groundwater Unit	Installation Date	Well Diameter (inches)	Well Construction Material (screen/riser)	TOR Elevation (fmsl)	Ground Elevation (fmsl)	Stick-up (fbgs)	Construction Details (approx.)				Total Depth March 2010 (fbTOR)
								Bentonite Seal (fbgs)	Sand Pack Interval (fbgs)	Screened Interval (fbgs)	Sump Interval (fbgs)	
MONITORING WELLS:												
MW-1	intermediate	11/27/06	2.0	PVC / PVC	499.22	499.51	-0.29	1.00 - 26.67	26.67 - 38.67	28.67 - 38.67	none	38.67
MW-2	intermediate	11/28/06	2.0	PVC / PVC	499.81	500.08	-0.27	1.00 - 26.37	26.37 - 38.37	28.37 - 38.37	none	38.37
MW-3	intermediate	11/29/06	2.0	PVC / PVC	498.13	498.38	-0.25	1.00 - 25.92	25.92 - 37.92	27.92 - 37.92	none	37.92
MW-4	deep	04/22/08	2.0	PVC / PVC	499.56	499.93	-0.37	1.00 - 30.27	30.27 - 47.27	32.27 - 47.27	47.27 - 50.27	50.27
MW-5R	shallow	01/18/17	2.0	PVC / PVC	499.20	499.50	-0.30	1.00 - 6.79	6.79 - 18.79	8.79 - 18.79	none	18.79
MW-6	deep	04/24/08	2.0	PVC / PVC	498.72	499.03	-0.31	1.00 - 31.10	31.10 - 48.10	33.10 - 48.10	48.10 - 50.10	50.10
MW-7	deep	05/30/12	2.0	PVC / PVC	497.96	498.31	-0.35	26.28 - 31.28	31.28 - 48.28	33.28 - 48.28	48.28 - 50.28	50.28
PIEZOMETERS:												
PZ-1	<i>Destroyed</i>											
PZ-2	shallow	11/14/06	1.0	PVC / PVC	499.70	499.84	-0.14	1.00 - 3.52	3.52 - 15.52	5.52 - 15.52	none	15.52
PZ-3	shallow	11/14/06	1.0	PVC / PVC	499.32	499.44	-0.12	1.00 - 3.48	3.48 - 15.48	5.48 - 15.48	none	15.48
PZ-4	shallow	11/14/06	1.0	PVC / PVC	499.42	499.66	-0.24	1.00 - 3.47	3.47 - 15.47	5.47 - 15.47	none	15.47
PZ-4R	shallow	11/05/18	1.0	PVC / PVC	499.21	499.60	-0.39	1.00 - 2.79	2.79 - 14.79	4.79 - 14.79	none	14.79
PZ-5	shallow	11/14/06	1.0	PVC / PVC	498.44	498.92	-0.48	1.00 - 3.37	3.37 - 15.37	5.37 - 15.37	none	15.37
PZ-6	shallow	11/14/06	1.0	PVC / PVC	498.69	499.21	-0.52	1.00 - 3.42	3.42 - 15.42	5.42 - 15.42	none	15.42
PZ-7	shallow	11/15/06	1.0	PVC / PVC	500.95	501.13	-0.18	1.00 - 3.32	3.32 - 15.32	5.32 - 15.32	none	15.32
PZ-8	shallow	11/15/06	1.0	PVC / PVC	500.16	500.37	-0.21	1.00 - 3.17	3.17 - 15.17	5.17 - 15.17	none	15.17
PZ-9	shallow	11/15/06	1.0	PVC / PVC	498.79	499.01	-0.22	1.00 - 3.27	3.27 - 15.27	5.27 - 15.27	none	15.27
PZ-10	shallow	11/15/06	1.0	PVC / PVC	498.80	499.03	-0.23	1.00 - 2.37	2.37 - 14.37	4.37 - 14.37	none	14.37
PZ-11	shallow	12/27/06	1.0	PVC / PVC	497.79	498.18	-0.39	1.00 - 3.37	3.37 - 15.37	5.37 - 15.37	none	15.37
PZ-12	shallow	12/27/06	1.0	PVC / PVC	497.60	498.14	-0.54	1.00 - 3.37	3.37 - 15.37	5.37 - 15.37	none	15.37
PZ-13	shallow	12/27/06	1.0	PVC / PVC	497.88	498.47	-0.59	1.00 - 2.87	2.87 - 14.87	4.87 - 14.87	none	14.87
PZ-14	shallow	12/27/06	1.0	PVC / PVC	497.56	498.26	-0.70	1.00 - 2.72	2.72 - 14.72	4.72 - 14.72	none	14.72
OFF-SITE MONITORING WELLS (INSTALLED BY NYSDEC):												
MW-21S	shallow	05/13/09	2.0	PVC / PVC	497.36	497.88	-0.52	9.50 - 11.50	11.50 - 23.50	13.50 - 23.50	none	23.50
MW-21D	deep	05/12/09	2.0	PVC / PVC	497.58	497.90	-0.32	34.50 - 36.50	36.50 - 48.50	38.50 - 48.50	none	48.50
MW-22S	shallow	05/15/09	2.0	PVC / PVC	496.21	497.23	-1.02	3.00 - 5.00	5.00 - 17.70	7.70 - 17.70	none	17.70
MW-22D	deep	05/14/09	2.0	PVC / PVC	496.92	497.21	-0.29	33.50 - 36.00	36.00 - 48.00	38.00 - 48.00	none	48.00
MW-23S	shallow	05/19/09	2.0	PVC / PVC	496.91	497.46	-0.55	4.56 - 6.56	6.56 - 18.56	8.56 - 18.56	none	18.56
MW-23D	deep	05/19/09	2.0	PVC / PVC	497.18	497.52	-0.34	34.30 - 36.30	36.30 - 48.30	38.30 - 48.30	none	48.30
MW-24S	shallow	05/21/09	2.0	PVC / PVC	497.32	497.91	-0.59	4.63 - 6.63	6.63 - 18.63	8.63 - 18.63	none	18.63
MW-24D	deep	05/20/09	2.0	PVC / PVC	497.63	497.94	-0.31	33.53 - 35.53	35.53 - 47.53	37.53 - 47.53	none	47.53
MW-25S	shallow	09/27/12	2.0	PVC / PVC	496.21	496.46	-0.25	5.60 - 7.60	7.60 - 19.10	9.10 - 19.10	none	19.10
MW-26S	shallow	09/26/12	2.0	PVC / PVC	496.02	496.39	-0.37	4.80 - 6.80	6.80 - 18.80	8.80 - 18.80	none	18.80
MW-27S	shallow	09/27/12	2.0	PVC / PVC	496.24	497.10	-0.86	5.10 - 7.10	7.10 - 19.10	9.10 - 19.10	none	19.10

Notes:

1. Top of riser elevation based upon an assumed datum of 500.00 fmsl.
2. TOR = top of riser.
3. fmsl = feet above mean sea level.
4. fbgs = feet below ground surface.
5. MW-5 removed 12/1/16 during source area excavation and replaced 1/18/17 (MW-5R).
6. PZ-11, PZ-12, and PZ-13 were cut down to sit flush with ground surface on 4/21/17. TOR Elevation was recalculated and used in calculating water elevations for sampling on 4/24/17.
7. Off-site monitoring wells MW-21S, MW-21D, MW-22S, and MW-22D were decommissioned by NYSDEC in early 2018.
8. PZ-4 removed 11/5/2018 and replaced by PZ-4R on 11/5/2018. The piezometer TOR was measured on 11/12/2018.
9. PZ-5, PZ-6, and PZ-14 were cut down to sit flush with ground surface on 11/5/18. TOR Elevation was recalculated and used in calculating water elevations for sampling on 11/12/18.

TABLE 2
GROUNDWATER ELEVATION DATA SUMMARY
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location	TOR Elevation (fmsl)	Interim Remedial Measure																Post-Injection Monitoring										Post-Persulfox Monitoring				Post Excavation		1st Semi-Annual		2nd Semi-Annual				
		10/02/08		12/18/08		02/11/09		04/21/09		07/17/09		03/29/10		06/02/11		06/04/12		06/18/14		09/17/14		04/16/15		08/13/15		12/18/15		06/13/16		09/21/16		01/23/17		11/12/18		04/05/19				
		DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE	DTW	GWE			
MONITORING WELLS (SHALLOW):																																								
MW-5	499.10	12.10	487.00	11.96	487.14	11.95	487.15	11.90	487.20	11.84	487.26	11.76	487.34	11.66	487.44	11.78	487.32	11.80	487.30	11.86	487.24	11.95	487.15	12.00	487.10	12.40	486.70	12.30	486.80	12.03	487.07	(8)	(8)	(8)	(8)	(8)	(8)			
MW-5R	499.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.56	487.64	11.33	487.87	11.38	487.82				
MONITORING WELLS (INTERMEDIATE):																																								
MW-1	499.22	12.79	486.43	11.53	487.69	11.10	488.12	11.43	487.79	11.82	487.40	12.40	486.82	11.64	487.58	11.40	487.82	NM	NM	11.87	487.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
MW-2	499.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	12.05	487.76	12.06	487.75	12.05	487.76	NM	NM	12.10	487.71	NM	NM	12.32	487.49	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
MW-3	498.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.80	487.33	10.46	487.67	10.49	487.64	NM	NM	10.69	487.44	NM	NM	10.80	487.33	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
MONITORING WELLS (DEEP):																																								
MW-4	499.12	12.26	486.86	12.15	486.97	12.30	486.82	11.94	487.18	12.03	487.09	11.80	487.32	11.56	487.56	11.89	487.23	NM	NM	12.04	487.08	NM	NM	12.05	487.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
MW-6	498.63	11.39	487.24	11.51	487.12	12.30	486.33	11.36	487.27	11.26	487.37	11.10	487.53	10.88	487.75	11.07	487.56	NM	NM	11.29	487.34	NM	NM	11.45	487.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
MW-7	497.96	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.68	487.28	NM	NM	car parked on well	NM	NM	11.45	486.51	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM			
PIEZOMETERS:																																								
PZ-1	500.04	12.27	487.77	12.10	487.94	12.13	487.91	12.06	487.98	(7)	(7)	12.00	488.04	11.98	488.06	destroyed																								
PZ-2	499.70	12.09	487.61	11.90	487.80	12.00	487.70	11.86	487.84	(7)	(7)	11.90	487.80	11.88	487.82	11.72	487.98	NM	NM	11.77	487.93	12.29	487.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.59	488.11	NM	NM	
PZ-3	499.32	11.73	487.59	11.61	487.71	11.60	487.72	11.56	487.76	11.39	487.93	11.49	487.83	11.37	487.95	11.47	487.85	NM	NM	11.64	487.68	11.73	487.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.12	488.20	NM	NM
PZ-4	499.42	11.88	487.54	11.67	487.75	11.80	487.62	11.65	487.77	(7)	(7)	11.60	487.82	11.51	487.91	11.64	487.78	11.64	487.78	11.56	487.86	12.08	487.34	11.85	487.57	12.30	487.12	11.90	487.52	11.70	487.72	11.36	488.06	(11)	(11)	(11)	(11)			
PZ-4R	499.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.00	488.21	10.96	488.25				
PZ-5	498.44	11.27	487.38	11.12	487.53	11.15	487.50	11.05	487.60	(7)	(7)	11.00	487.65	11.87	486.78	10.95	487.70	11.10	487.55	11.21	487.44	11.28	487.37	11.50	487.15	NM	NM	NM	NM	NM	NM	NM	NM	11.20	487.45	10.73	487.71	10.80	487.64	
PZ-6	498.68	11.55	487.55	11.43	487.67	(6)	(6)	11.31	487.79	11.11	487.99	11.30	487.80	10.78	488.32	11.26	487.84	11.50	487.60	11.36	487.74	11.43	487.67	11.60	487.50	NM	NM	NM	NM	NM	NM	NM	NM	11.15	487.95	10.75	487.93	10.78	487.90	
PZ-7	500.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	12.50	488.45	12.26	488.69	12.32	488.63	NM	NM	12.49	488.46	12.56	488.39	11.70	489.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.95	489.00	11.97	488.98	
PZ-8	500.16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.90	488.26	11.74	488.42	11.97	488.19	NM	NM	11.99	488.17	12.12	488.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.71	488.45	11.73	488.43	
PZ-9	498.79	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.00	487.79	10.80	487.99	11.03	487.76	NM	NM	11.22	487.57	10.77	488.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
PZ-10	498.80	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.55	488.25	10.31	488.49	10.77	488.03	NM	NM	10.69	488.11	10.82	487.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
PZ-11	498.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.50	487.52	10.41	487.61	10.49	487.53	10.60	487.42	10.53	487.49	10.84	487.18	10.75	487.27	NM	NM	NM	NM	NM	NM	NM	NM	10.13	487.89	10.17	487.85	10.29	487.73	
PZ-12	497.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.50	487.43	10.47	487.46	10.54	487.39	10.75	487.18	10.49	487.44	10.91	487.02	10.90	487.03	NM	NM	NM	NM	NM	NM	NM	NM	10.76	487.17	10.31	487.62	10.27	487.66	
PZ-13	498.05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.55	487.50	10.53	487.52	10.66	487.39	10.80	487.25	10.88	487.17	11.03	487.02	11.00	487.05	NM	NM	NM	NM	NM	NM	NM	NM	11.06	486.99	10.41	487.64	10.56	487.49	
PZ-14	497.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.50	487.42	10.40	487.52	10.52	487.40	10.60	487.32	10.60	487.32	car parked on well	10.90	487.02	NM	NM	NM	NM	NM	NM	NM	NM	10.74	487.18	10.08	487.48	10.12	487.44		
OFF-SITE MONITORING WELLS:																																								
MW-21S	497.36	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.19	487.17	9.97	487.39	10.06	487.30	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	(10)	(10)	(10)	(10)
MW-22S	496.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9.80	486.41	10.26	485.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	(10)	(10)	(10)	(10)
MW-23S	496.91	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.24	485.67	11.46	485.45	11.50	485.41	NM	NM	NM	NM	NM	NM	NM	NM	11.41	485.50	11.15	485.76	11.25	485.66
MW-24S	497.32	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.63	486.69	10.59	486.73	10.70	486.62	NM	NM	NM	NM	NM	NM	NM	NM	11.54	485.78	10.33	486.99	10.37	486.95
MW-24D	497.63	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.34	486.29	11.30	486.33	11.45	486.18	NM	NM	NM	NM	NM	NM	NM	NM	11.19	486.44	11.03	486.60	11.13	486.50

- Notes:**
- All wells/piezometers surveyed on 1/11/07 with site specific datum of 500 feet, with the exception of wells MW-4, 5, 5R, 6, and 7; these locations were surveyed following their installation.
 - DTW = depth to water, feet below top of riser (ftTOR)
 - GWE = groundwater elevation, feet above mean sea level (fmsl)
 - NM = no measurement; location was not installed at the time of measurement or not accessible.
 - TOR = top of PVC riser, fmsl
 - Monitoring location was frozen within road box, no measurement was obtained.
 - No measurement obtained due to malfunctioning water level indicator.
 - MW-5 was removed 12/1/2016 during source area excavation and replaced by MW-5R on 1/18/2017.
 - PZ-11, PZ-12, and PZ-13 were cut down to sit flush with ground surface on 4/21/17. TOR elevation updated.
 - Off-site monitoring wells MW-21S, MW-21D, MW-22S, and MW-22D were decommissioned by NYSDEC in early 2018.
 - PZ-4 was removed 11/5/2018 during on-site well repairs and replaced by PZ-4R on 11/5/2018.
 - PZ-5, PZ-6, and PZ-14 were cut down to sit flush with ground surface on 11/5/18. TOR elevation updated.



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																													
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)						Field Measurements (units as indicated)								
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)	
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--	
Shallow Overburden Wells																														
PZ-2	11/16/06	< 10	< 10	< 10	< 10	< 10	< 10	90	< 10	< 10	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.26	16.3	4646	< 1000	78	7.27
	04/24/08	< 20	< 4	< 4	< 4.0	< 4	< 4.0	120	< 4	< 4.0	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	14.0	4143	< 1000	163	5.81
	08/18/08	HRC INJECTION																												
	10/02/08	8.3	< 1	< 1	< 1.0	4.6	< 1	< 1	230 D	5.7	< 1	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.73	15.7	6981	< 1000	-10	2.39
	12/18/08	< 20	< 4	< 4	< 4.0	3.5	< 4	< 4	270 D	5.6	< 4	279	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.31	8.3	4977	< 1000	-25	3.32
	02/11/09	< 5	< 1	< 1	< 1.0	1.3 J	< 1	< 1	83	4	< 1	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.28	11.9	4926	18	-56	3.08
	04/21/09	< 5	< 1	< 1	< 1.0	2.3	< 1	< 1	110 D	20	< 1	132	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.18	12.2	7537	6.3	-60	3.02
	07/17/09	< 5	< 1	< 1	< 1.0	1.2	< 1	< 1	77 D	12	< 1	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.10	16.3	9630	11	-199	2.34
	03/29/10	< 5	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	60	3	< 0.24	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.08	10.5	5814	4.8	-48	3.04
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	3.8	< 0.9	< 0.44	78	9.2	< 0.9	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.42	15.5	4820	10	48	4.2
06/05/12	< 10	< 0.19	< 0.34	< 0.29	5.7	< 0.9	< 0.44	200 D	13	< 0.9	219	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	15.3	4951	16	336	5.47	
PZ-3	11/16/06	< 10	< 10	< 10	< 10	1 J	< 10	< 10	300	< 10	< 10	301	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.23	16.3	3590	< 1000	527	3.77
	04/24/08	< 25	< 5	< 5	< 5.0	6	< 5	< 5	400	< 5	< 5	406	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.60	16.8	4416	< 1000	133	4.56
	08/18/08	HRC INJECTION																												
	10/02/08	< 5	< 1	< 1	< 1.0	3.5	< 1	< 1	370 D	1.7	< 1	375	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.34	14.0	4801	< 1000	17	4.94
	12/18/08	< 20	< 4	< 4	< 4.0	2.1 J	< 4	< 4	250	< 4	< 4	252	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	9.6	4244	< 1000	93	5.29
	02/11/09	< 5	< 1	< 1	< 1.0	< 1	< 1	< 1	140 D	1.2	< 1	141	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45	12.0	4667	37	416	5.46
	04/21/09	< 5	< 1	< 1	< 1.0	0.73 J	< 1	< 1	150 D	1 J	< 1	152	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.35	10.8	4818	307	107	4.86
	07/17/09	< 5	< 1	< 1	< 1.0	< 1	< 1	< 1	72 D	< 1	< 1	72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.31	16.1	5436	6.5	-59	5.22
	03/29/10	< 5	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	17	< 1	< 0.24	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.16	10.4	4032	20	-51	4.18
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	120 D	< 1	< 1	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.22	14.9	5885	8.0	-15	4.04
06/05/12	< 10	< 0.38	< 0.68	< 0.58	< 1	< 1	< 0.88	120	< 1	< 1.8	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.50	14.7	4276	17	179	4.84	



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																																
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)						Field Measurements (units as indicated)											
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)				
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--				
PZ-4	11/16/06	< 10	< 10	< 10	< 10	< 10	< 10	530	3 J	< 10	533	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.54	16.3	3782	< 1000	49	5.92				
	04/24/08	< 25	< 5	< 5	<5.0	46	< 5	1,900 D	19	< 5	1,965	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.29	13.4	6293	< 1000	158	7.63				
	08/18/08	HRC INJECTION																															
	10/02/08	< 5	< 1	< 1	ND	56	0.82 J	< 1	2,800 D	30	< 1	2,888	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	15.7	5898	< 1000	85	7.33			
	12/18/08	< 200	< 40	< 40	<40	99	< 40	< 40	2,800	42	< 40	2,941	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	9.3	10502	< 1000	147	8.97			
	02/11/09	< 5	< 1	< 1	<1.0	16	< 1	< 1	540 D,H	9.4	< 1	565	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.61	10.7	7079	17	48	9.22			
	04/21/09	< 5	< 1	< 1	<1.0	6	< 1	< 1	520 D	6.3	< 1	532	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.37	11.7	18510	206	99	9.58			
	07/17/09	< 5	< 1	< 1	<1.0	0.93 J	< 1	< 1	180 D	1.6	< 1	183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.61	16.7	12	6.5	-46	6.69			
	03/29/10	< 50	< 1.9	< 3.4	< 2.9	< 10	< 10	< 4.4	46 D	< 10	< 2.4	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.61	9.0	6934	13	0	9.37			
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	9.1	< 1	< 0.44	390 D	8.1	< 1	407	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.49	13.5	9095	9.0	36	8.02			
	06/05/12	< 50	< 0.95	< 1.7	< 1.5	15	< 1	< 2.2	950 D	24	< 4.5	989	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.63	14.0	8812	16	289	7.71			
	04/16/14	IET INJECTION																															
	06/18/14	< 26	< 3.8	< 6.8	< 5.8	39	< 18	< 8.8	1,200	35	< 18	1,274	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.46	14.9	11710	30	71	4.95	
	09/03/14	< 26	< 3.8	< 6.8	< 5.8	190	< 18	11 J	1,200	60	< 18	1,450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1.3 J	7.44	18.9	9106	3.2	-77	3.20
	04/16/15	< 26	< 3.8	< 6.8	< 5.8	110	< 18	< 8.8	940	59	< 18	1,109	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.40	11.9	7306	9.9	-37	7.73
	08/13/15	< 26	< 3.8	< 6.8	< 5.8	160	< 18	11 J	480	61	< 18	701	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	13	7.47	22.0	12.82	> 1000	-143	2.79
	12/18/15	< 19	< 10	< 7	< 1.4	29	< 7	< 7	780	30	< 0.7	839	NA	NA	NA	NA	COD=64	0.04 J	NA	NA	94.6	NA	NA	NA	7.67	11.4	5925	63	22	5.96			
	Mar & Apr 2016	PERSULFOX INJECTIONS																															
	06/13/16	< 39	< 20	< 14	< 2.8	64	< 14	< 14	1,100	46	< 1.4	1,210	NA	NA	NA	NA	COD=240	0.026 J	NA	NA	572	NA	NA	NA	7.07	16.5	10	217	197	5.45			
	09/21/16	< 39	< 20	< 14	< 3.4	34 J	< 14	< 14	630	34	< 1.4	698	NA	NA	NA	NA	COD=170	< 0.191	NA	NA	273	NA	NA	NA	7.75	26.3	5784	510	321	5.27			
12/1-12/6/16	ON-SITE EXCAVATION																																
01/23/17	< 39	< 20	< 14	< 3.4	58	< 14	< 14	1,000	52	< 1.4	1,110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	10.9	8883	159	184	7.51				
04/24/17	< 39	< 20	< 14	< 3.4	52	< 14	< 14	1,200	44	< 1.4	1,296	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.71	15.7	7520	47	155	7.96				
PZ-4R	11/12/18	< 19	< 10	< 7	< 1.7	17 J	< 7	< 7	1,400	23	< 0.71	1,423	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.30	13.8	6990	> 1000	143	6.05				
	04/05/19	< 19	< 10	< 7	< 1.7	38	< 7	< 7	1,200 D	24 D	< 0.71	1,262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.32	7.9	5409	620	196	11.28				



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																														
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)						Field Measurements (units as indicated)									
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)		
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--	--	
PZ-5	11/20/06	< 10	< 10	< 10	42	< 10	< 10	9,700	11	< 10	9,753	NA	NA	NA	NA	NA	NA	7.6 J	125	NA	NA	NA	7.22	10.9	3722	< 1000	111	5.42			
	04/24/08	< 20	< 4	< 4	<4.0	160	< 4	3,100 DJ	20	< 4	3,280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.22	12.1	3710	< 1000	122	4.4			
	08/18/08	HRC INJECTION																													
	10/02/08	< 5	< 1	< 1	<1.0	38	< 1	< 1	3,000 D	7.3	< 1	3,045	25.2	0.308 J	0.905	< 0.463	NA	ND	ND	5.2	117	0.0021	ND	0.01	7.33	16.4	3773	< 1000	-37	4.51	
	12/18/08	< 200	< 40	< 40	<40	120	< 40	< 40	5,600 D	< 40	< 40	5,720	0.8	< 0.667	< 0.667	< 0.667	NA	ND	ND	5.7	120	0.0021	ND	0.014	7.42	11.0	4622	< 1000	-10	5.07	
	02/11/09	< 5	< 1	< 1	<1.0	< 1	< 1	< 1	150 D	< 1	< 1	150	1.4	< 5	< 5	< 5	NA	< 0.05	0.00783	4.65	102	< 0.0015	< 0.0015	0.00329	7.48	11.2	2872	15	35	4.74	
	04/21/09	< 5	< 1	0.41 J	<1.0	54	0.4 J	< 1	760 D	8.7	< 1	823	0.8	< 0.5	< 0.5	9060	NA	< 0.05	< 0.003	6.4 D	110 D	< 0.0015	< 0.0015	< 0.001	7.41	12.6	3905	38	60	3.11	
	07/17/09	< 5	< 1	< 1	<1.0	33	< 1	< 1	6,000 D	9.3	< 1	6,044	2.8	< 0.5	< 0.5	< 0.5	16.6	0.135	1.37	4.44 D	130 D	< 0.0015	< 0.0015	< 0.001	7.26	16.5	4255	44	28	2.95	
	03/29/10	< 5	< 0.19	< 0.34	< 0.29	8	< 1	< 0.44	1,300 D	3.1	< 0.24	1,311	2.5	< 5	< 5	< 5	NA	< 0.05	0.0064	8.97	114	< 1.5	< 1.5	1	7.32	8.8	4341	4.5	0	4.32	
	06/29/11	< 10	< 0.19	< 0.34	< 0.29	11	< 1	< 0.44	3,200 D	4.3	< 0.9	3,215	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.26	16.6	4802	7.8	50	3.89
	06/05/12	< 10	< 4.8	< 8.5	< 7.3	< 1	< 1	< 11	1,600	< 1	< 23	1,600	NA	NA	NA	NA	NA	NA	NA	4.7	135	0.87 J	NA	0.55 BJ	7.34	14.2	3469	13	57	4.73	
	04/16/14	IET INJECTION																													
	06/18/14	< 33	< 4.8	< 8.5	< 7.3	< 20	< 23	< 11	3,800 D	< 12	< 23	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.50	15.3	4135	21	163	5.91
	09/03/14	< 33	< 4.8	< 8.5	< 7.3	< 20	< 23	14 J	2,300	< 12	< 23	2,314	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.48	17.6	4985	7.1	179	3.67
	04/16/15	< 1.3	< 0.19	< 0.34	< 0.29	33	< 0.9	< 0.44	5.8	2.8	< 0.9	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	9.3	7.29	11.8	3790	19	-49	7.07
	08/13/15	< 1.3	< 0.19	3	< 0.29	29	< 0.9	< 0.44	1,100 D	3	< 0.9	1,132	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.54	16.3	4251	8.7	20	5.44
	12/1-12/6/16	ON-SITE EXCAVATION																													
	01/24/17	< 19	< 10	< 7	< 1.7	< 7	< 7	< 7	880 D	2.7 J	< 0.71	883	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.32	11.5	2752	1.4	237	4.54
	04/24/17	< 19	< 10	< 7	< 1.7	28	< 7	< 7	740	3.4 J	< 0.71	771	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.48	10.8	2976	7.0	148	5.09
	11/12/18	< 7.8	< 4	< 2.8	< 0.68	< 2.8	< 2.8	< 2.8	340	< 0.7	< 0.28	340	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.31	13.8	2952	3.7	91	4.92
04/05/19	< 3.9	< 2	6.5 D	< 0.34	< 1.4	< 1.4	< 1.4	160 D	0.62 J D	< 0.14	167	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.61	11.1	2259	4.3	91	7.18	
PZ-6	11/16/06	< 10	< 10	< 10	26	< 10	< 10	1,000	5 J	< 10	1,031	NA	NA	NA	NA	NA	NA	3.4	114 J	NA	NA	NA	7.75	16.0	3679	< 1000	32	6.17			
	04/24/08	< 20	< 4	< 4	<4.0	11	< 4	390	2.5 J	< 4	404	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45	13.1	3998	< 1000	137	4.95			
	08/18/08	HRC INJECTION																													
	10/02/08	< 5	< 1	< 1	< 1.0	20	1.3	< 1	1,400 D	8.7	< 1	1,430	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45	15.1	3851	< 1000	88	4.99	
	12/18/08	< 10	< 2	< 2	< 2.0	1.7	< 2	< 2	92	< 2	< 2	94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.49	10.4	3600	< 1000	100	5.28	
	02/11/09	< 5	< 1	< 1	< 1.0	< 1	< 1	< 1	12	< 1	< 1	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.48	11.6	2560	140	72	4.49	
	04/21/09	< 5	< 1	< 1	< 1.0	2.5	< 1	< 1	200	2.1	< 1	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.36	11.4	4471	31	80	2.98	
	07/17/09	< 5	< 1	< 1	< 1.0	0.9 J	< 1	< 1	90	0.52 J	< 1	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.33	16.1	3894	21	28	3.52	
	03/29/10	< 5	< 0.19	< 0.34	< 0.29	2	< 1	< 0.44	590 D	1.2	< 0.24	593	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.26	10.0	4044	39	-64	4.58	
	06/29/11	< 10	< 0.19	< 0.34	< 0.29	7	< 1	< 0.44	1,200 D	3.6	< 0.9	1,211	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.26	16.0	3261	10	63	3.7	
	06/05/12	< 10	< 1.5	< 2.7	< 2.3	< 1	< 1	< 3.5	390	< 1	< 7.2	390	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.39	14.4	2719	23	146	4.31	
	04/16/14	IET INJECTION																													
	06/18/14	< 11	< 1.5	< 2.7	< 2.3	< 6.5	< 7.2	< 3.5	390	< 3.7	< 7.2	390	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.48	15.1	5029	33	161	6.68
	09/03/14	< 6.6	< 0.95	< 1.7	< 1.5	85	< 4.5	< 2.2	280	5.6	< 4.5	371	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.42	17.7	4164	7.6	145	4.07
	04/16/15	< 6.6	< 0.95	< 1.7	< 1.5	12	< 4.5	< 2.2	210	< 2.3	< 4.5	222	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.30	13.1	2087	6.8	112	5.31
	08/13/15	< 6.6	< 0.95	3.6 J	< 1.5	37	< 4.5	2.2 J	800 D	9.6	< 4.5	847	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.69	15.2	3905	15	129	5.42
12/1-12/6/16	ON-SITE EXCAVATION																														
01/23/17	< 19	< 10	< 7	< 1.7	< 7	< 7	< 7	500	8.2	< 0.71	508	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.30	12.4	2833	2.7	239	5.04	
04/24/17	< 1.9	< 1	< 0.7	< 0.17	5.8	< 0.7	< 0.7	46	1.3	< 0.07	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.10	10.6	2889	6.0	172	5.23	
11/12/18	< 4.8	< 2.5	< 1.8	< 0.42	2.4 J	< 1.8	< 1.8	250	2.7	< 0.18	255	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	12.7	2656	3.4	121	4.99	
04/05/19	< 1.9	< 1.0	2.4 J	< 0.17	1.5 J	< 0.7	< 0.7	200	2.7	< 0.07	207	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.92	11.3	3243	7.0	228	7.66	



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																														
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)							Field Measurements (units as indicated)								
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)		
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--		
PZ-7	11/16/06	< 10	< 10	1 J	< 10	< 10	< 10	4 J	< 10	< 10	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.19	12.0	4713	< 100	29	6		
	08/18/08	HRC INJECTION																													
	03/30/10	< 5	< 1	< 1	< 0.29	< 1	< 1	< 1	< 1	< 1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.33	10.6	3915	243	8	8.51		
	06/03/11	< 5	< 1	< 1	< 1.0	< 1	< 1	< 1	0.64 J	< 1	< 1	0.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.35	14.2	5456	14	92	6.01		
	06/05/12	< 10	< 0.19	2	< 0.29	< 1	< 1	< 0.44	2.1	< 1	< 0.9	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.74	14.9	3145	29	520	8.08		
PZ-8	11/16/06	< 10	< 10	1 J	< 10	< 10	< 10	4 J	< 10	< 10	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.42	17.1	3242	< 100	119	7.86		
	08/18/08	HRC INJECTION																													
	03/30/10	< 5	< 1.0	< 1.0	< 0.29	< 1	< 1	< 1.0	1.9	< 1	< 1.0	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.78	11.3	3943	29	10	8.34		
	06/02/11	< 5	< 1.0	0.7 J	< 1.0	< 1	< 1	< 0.44	1.9	< 1	< 0.9	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.72	14.4	2283	12	76	6.23		
	06/04/12	< 10	< 0.19	0.58 J	< 0.29	< 1	< 1	< 0.44	1.9	< 1	< 0.9	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.00	14.5	1516	14	561	8.09		
PZ-9	11/16/06	< 10	< 10	1 J	< 10	< 10	< 10	10	< 10	< 10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.37	170.0	2944	< 100	-52	4.38		
	08/18/08	HRC INJECTION																													
	03/30/10	< 25	< 5	< 5	< 1.5	< 5	< 5	< 5	9 D	< 5	< 5	9.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.46	9.8	7571	25	22	8.91		
	06/03/11	< 10	< 0.19	0.85 J	< 5.0	< 5	< 5	< 0.44	6.8	< 5	< 0.9	6.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.35	14.2	5456	14	92	6.01		
	06/04/12	< 10	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	6.6	< 1	< 0.9	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.73	13.4	6535	202	614	7.51		
PZ-10	11/16/06	< 10	< 10	1 J	< 10	< 10	< 10	2 J	< 10	< 10	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.01	17.1	4368	< 100	-89	4.8		
	08/18/08	HRC INJECTION																													
	03/30/10	< 5	< 1	< 1.0	< 0.29	< 1	< 1	< 1	0.73 J	< 1	< 1	0.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.88	11.6	3027	140	12	8.54		
	06/03/11	< 5	< 0.19	< 0.34	< 1.0	< 1	< 1	< 0.44	0.53 J	< 1	< 0.9	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.51	13.6	9522	40	93	7.89		
	06/04/12	< 10	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	1	< 1	< 0.9	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.84	13.6	3300	47	552	7.14		
PZ-11	01/05/07	< 50	< 50	< 50	< 50	94	< 50	< 50	18,000 D	< 50	< 50	18,094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.22	11.2	2865	< 1000	110	5.46		
	04/24/08	< 2000	< 400	< 400	< 400	170	< 400	< 400	22,000 D	34	< 400	22,204	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.18	12.0	7975	< 1000	187	5.17		
	08/18/08	HRC INJECTION																													
	03/30/10	< 20	< 4	< 4	< 1.5	12 D	< 4	< 4	6,800 D	5.9 D	< 4	6,818	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.25	8.3	9696	54	5	6		
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	17	< 1	< 0.44	5,400 D	5.6	< 0.9	5,423	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.46	13.2	6102	47	99	4.08		
	06/04/12	< 500	< 9.5	< 17	< 15	< 50	< 50	< 22	3,400	< 50	< 45	3,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.51	14.4	4076	< 1000	564	4.36		
	04/16/14	IET INJECTION																													
	06/18/14	< 26	< 3.8	< 6.8	< 5.8	< 16	< 18	< 8.8	1,500	< 9.2	< 18	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.75	17.8	4937	43	125	3.35
	09/03/14	< 6.6	< 0.95	< 1.7	< 1.5	14	< 4.5	< 2.2	480	5.8	< 4.5	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.41	18.0	4627	46	84	3.25
	04/16/15	< 6.6	< 0.95	< 1.7	< 1.5	95	< 4.5	< 2.2	16,000 D	34	< 4.5	16,129	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.30	11.7	5334	11	110	5.7
	08/13/15	< 260	< 38	< 68	< 58	< 160	< 180	100 J	4,300	< 92	< 180	4,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.51	20.3	5909	30	7	3.45
	12/1-12/6/16	ON-SITE EXCAVATION																													
	01/24/17	< 190	< 100	< 70	< 17	< 70	< 70	< 70	5,500	< 18	< 7.1	5,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.49	10.8	3815	9.0	241	2.42		
04/24/17	< 190	< 100	< 70	< 17	< 70	< 70	< 70	5,600	< 18	< 7.1	5,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.50	11.2	6943	9.4	120	5.19			
11/12/18	< 19	< 10	< 7	< 1.7	18 J	< 7	< 7	1,300	14	< 0.71	1,332	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.39	13.7	3248	2.7	72	4.57			
04/05/19	< 78	< 40	< 28	< 6.8	< 28	< 28	< 28	4,100 D	21 D	< 2.8	4,121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.51	9.8	3331	1.9	83	5.85			



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																														
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)						Field Measurements (units as indicated)									
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)		
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--		
PZ-12	01/05/07	< 200	<200	<200	<200	< 200	<200	7,200 D	< 200	< 200	7,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.03	11.5	3083	< 1000	103	4.00		
	04/24/08	< 25	< 5	< 5	<5.0	230	< 5	23,000 D	23	< 5	23,253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.21	13.0	4004	< 1000	201	3.34			
	08/18/08	HRC INJECTION																													
	03/30/10	< 50	< 10	< 10	< 2.9	7.4 DJ	< 10	< 10	1,100 D	12 D	<10	1,119	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.30	9.4	3741	< 1000	7	2.38		
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	5.7	< 1	< 0.44	4,300 D	4.3	< 0.9	4,310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	13.6	3294	100	89	2.57		
	06/04/12	< 100	< 1.9	< 3.4	< 2.9	56	< 10	< 4.4	700	14	< 9	770	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.51	14	3324	268	431	2.61		
	04/16/14	IET INJECTION																													
	06/18/14	< 13	< 1.9	< 3.4	< 2.9	< 8.1	< 9	< 4.4	3,700 D	< 4.6	< 9	3,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.48	15.3	3177	36	157	2.89	
	09/03/14	< 26	< 3.8	< 6.8	< 5.8	< 16	< 18	< 8.8	2,200 D	< 9.2	< 18	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.44	18.0	3564	9.9	68	1.97
	04/16/15	< 53	< 7.6	< 14	< 12	75	< 36	< 18	6,200 D	20 J	< 36	6,295	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.22	10.9	3877	22	127	5.09
	08/13/15	< 66	< 9.5	< 17	< 15	66	< 45	25 J	1,900 D	< 23	< 45	1,991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.52	19.8	3552	74	15	2.12
	12/1-12/6/16	ON-SITE EXCAVATION																													
	01/24/17	< 48	< 25	< 18	< 4.2	26 J	< 18	< 18	2,500	8.8 J	< 1.8	2,535	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.46	11.2	3403	15	244	3.35		
	04/24/17	< 39	< 20	< 14	< 3.4	14 J	< 14	< 14	1,900	7.8 J	< 1.4	1,922	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.60	12.8	3197	12	99	3.38		
11/12/18	< 19	< 10	< 7	< 1.7	< 7	< 7	< 7	830	< 1.8	< 0.71	830	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.48	14.1	2538	1	69	4.6			
04/05/19	< 3.9	< 2	9 D	< 0.34	3.2 J D	< 1.4	< 1.4	250 D	0.91 J D	< 0.14	263	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.70	10.2	1883	1	45	7.01			
PZ-13	01/05/07	< 10	< 10	< 10	< 10	1 J	< 10	< 10	180	< 10	< 10	181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.11	11.9	3304	< 1000	68	5.18			
	04/24/08	< 20	< 4	< 4	<4.0	78	< 4	< 4	1,900 D	25	< 4	2,003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.28	12.8	2487	< 1000	131	5.7			
	08/18/08	HRC INJECTION																													
	03/30/10	< 5	< 1	< 1	< 0.29	20	< 1	< 1.0	98	11	1.2	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.11	10.1	3721	87	-91	2.24			
	06/02/11	< 5	< 0.19	< 0.34	< 0.29	9.6	< 1	< 0.44	120	4.5	< 0.9	134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.54	14.3	3130	469	-79	2.36			
	06/04/12	< 20	< 0.38	< 0.68	< 0.58	7.4	< 2	< 0.88	280 D	7.1	< 1.8	295	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.49	13.8	4080	667	344	3.5			
	04/16/14	IET INJECTION																													
	06/18/14	< 10	< 0.19	0.54 J	< 0.29	6.4	< 1	< 0.44	78	0.94 J	< 0.9	86	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	10	7.98	18.7	3762	55	78	2.05	
	09/03/14	< 1.3	< 0.19	< 0.34	< 0.29	4.7	< 0.9	< 0.44	15	2.0	< 0.9	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	4.8	7.52	17.8	3256	9.6	-95	1.77
	04/16/15	53	0.27 J	0.62 J	3.7	1300 D	1.4	< 0.44	55,000 D	490 E	< 0.9	56,845	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 15	510	7.31	11.4	4266	22	105	5.45	
	08/13/15	53 J	< 1.9	< 3.4	< 2.9	450	< 9	< 4.4	44 D	< 4.6	52	546	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 75	< 75	6,400	7.42	19.1	6651	12	-143	1.25	
	12/1-12/6/16	ON-SITE EXCAVATION																													
	01/24/17	< 3.9	< 2	< 1.4	< 0.34	50	5.0	< 1.4	79	19	18	171	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.13	11.3	5482	8.1	-10	2.28			
	04/24/17	< 19	< 10	< 7	< 1.7	500	10 J	< 7	14	20	110	654	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.50	14.9	4829	14	0	2.98			
11/12/18	< 1.9	< 1	< 0.7	< 0.17	< 0.7	0.73 J	< 0.7	16	3.6	32	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.31	14.8	2991	83	-89	2.81				
04/05/19	< 3.9	< 2	< 1.4	1.8 J D	280 D	1.8 J D	< 1.4	93 D	76 D	53 D	506	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.15	10.4	4253	20	-7	2.5				



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																														
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)							Field Measurements (units as indicated)								
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)		
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--		
PZ-14	01/05/07	< 10	<10	<10	< 10	6 J	<10	<10	3,000 D	< 10	< 10	3,007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	11.3	1798	< 1000	56	5.5		
	04/24/08	< 20	< 4	< 4	< 4.0	28	< 4	< 4	5,300 D	20	< 4	5,348	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	11.6	1985	< 1000	124	5.61		
	08/18/08	HRC INJECTION																													
	04/08/10	< 25	< 5	< 5	< 5.0	30	< 5	0.55 J	1,100 D	10	< 5	1,140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.18	11.8	4756	46	64	2.49		
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	9.2	< 1	< 0.44	2,100 D	5.8	< 0.9	2,115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.81	13.3	3861	< 1000	104	6.1		
	06/04/12	< 250	< 4.8	< 8.5	< 7.3	26	< 25	< 11	1,200	12 J	< 23	1,238	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.73	13	4500	16	555	8.07		
	04/16/14	IET INJECTION																													
	06/19/14	< 26	< 3.8	< 6.8	< 5.8	< 16	< 18	< 8.8	910	15 D J	< 18	925	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	8.19	16.8	2230	36	108	4.00
	09/03/14	< 26	< 3.8	< 6.8	< 5.8	89	< 18	8.9 J	1300	61	< 18	1,450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.80	18.7	3397	87	-142	4.66
	04/16/15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	08/13/15	< 26	< 3.8	< 6.8	< 5.8	270	< 18	10 J	590	36	< 18	896	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 75	< 75	560	7.62	20.8	4894	736	-126	1.58
	12/1-12/6/16	ON-SITE EXCAVATION																													
	01/24/17	< 1.9	< 1	< 0.7	0.34 J	290 D	14	< 0.7	4.8	12	130	451	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.32	10.9	4397	8.9	-70	2.47		
	04/24/17	< 7.8	< 4	< 2.8	0.68 J	180	8.5 J	< 2.8	4.7	140	140	473	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.08	15.0	4276	35	-126	1.81		
	11/12/18	< 1.9	< 1	< 0.7	< 0.17	50	1.8 J	< 0.7	32	9.8	20	114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.39	14.0	2820	6.8	-137	1.95		
04/05/19	< 3.9	< 2	< 1.4	0.5 J D	170 D	4.2 J D	< 1.4	150 D	32 D	30 D	387	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.48	10.0	2196	8.9	-52	2.01			
MW-5	04/25/08	< 5	< 1	< 1	<1.0	16	< 1	< 1	19,000 D J	5.1	< 1	19,022	<0.5	NA	NA	<0.5	NA	ND	0.1	5.7	87.4	ND	ND	0.0022	7.33	13.8	3070	< 1000	-51	4.92	
	08/18/08	HRC INJECTION																													
	10/02/08	< 5	< 1	< 1	ND	20	< 1	< 1	50,000 D	7.2	< 1	50,032	5.23	0.116 J	5.8	< 0.461	NA	ND	0.0099	8.1	85.8	ND	ND	ND	7.27	13.7	3454	2213	-40	6.27	
	12/18/08	< 2500	< 500	< 500	< 500	< 500	< 500	< 500	34,000 D	< 500	< 1	34,000	0.6	< 0.8	< 0.8	< 0.8	NA	ND	1.2	4.4	58.8	ND	ND	ND	6.99	10.4	4089	NA	-76	2.87	
	02/11/09	4.9 J	< 1	< 1	< 1.0	66	< 1	< 1	36,000 D,H	19	< 1	36,088	2.6	< 1.6	< 1.6	7.7	NA	< 0.05	0.91	5.57	84.4	< 0.0015	< 0.0015	< 0.001	7.17	13.4	5153	13	-71	2.14	
	04/21/09	11	0.82 J	0.53 J	< 1.0	1	0.64 J	< 1	37,000 D	27	< 1	37,032	2.2	< 1	< 1	< 1	NA	< 0.05	1.8	5.19 D	98 D	< 0.0015	< 0.0015	2.2	7.22	13.7	4730	2.6	-115	1.23	
	07/17/09	< 5	< 1	0.54 J	< 1.0	800	1	< 1	31,000 D	86	< 1	31,890	0.5 J	< 0.7	< 0.7	< 0.7	1.8	0.557	0.246	6.57 D	110 D	< 0.0015	< 0.0015	< 0.001	7.02	15.5	5656	2.0	-100	1.98	
	03/29/10	< 500	< 97	< 170	< 150	< 500	< 500	< 220	25,000 D	< 500	< 120	25,000	4	< 5	< 5	< 5	NA	< 0.05	0.495	7.35	89.2 B	< 1.5	< 1.5	1	6.81	11.3	6748	3.3	-71	4.26	
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	4.8	< 1	< 0.44	49,000 D	12	< 1	49,021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.26	13.1	5350	6.0	-23	6		
	06/05/12	< 10	< 150	< 270	< 230	< 1	< 1	< 350	70,000	< 1	< 720	70,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.38 BJ	7.20	13.4	4892	3.4	593	4.58		
	04/16/14	IET INJECTION																													
	06/19/14	< 260	< 38	< 68	< 58	< 160	< 180	< 88	17,000	170 D J	< 180	17,170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 1	7.66	18.9	4929	60	-169	1.65
	09/03/14	< 260	< 38	< 68	< 58	6300	< 180	< 88	38,000 D	2700	< 180	47,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	1.7 J	210 D	7.41	17.0	4462	9.6	-156	0.81
	04/16/15	< 1300	< 190	< 340	< 290	1700	< 900	< 440	43,000	670 J	< 900	45,370	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 15	520	7.32	12.9	4335	22	-132	1.5
	08/13/15	< 1300	< 190	< 340	< 290	870 J	< 900	< 440	120,000 D	< 460	< 900	120,870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 75	< 75	1,600	7.46	17.7	4964	39	-122	1.29
12/18/15	< 1900	< 1000	< 700	< 140	910 J	< 700	< 700	190,000	350 J	< 70	191,260	NA	NA	NA	NA	COD=62	2.9	NA	NA	75	NA	NA	NA	7.57	11.4	3642	> 100	-51	1.12		
Mar & Apr 2016	PERSULFOX INJECTIONS																														
06/13/16	< 9700	< 5000	< 3500	< 710	< 3500	< 3500	< 3500	180,000	< 880	< 350	180,000	NA	NA	NA	NA	COD=87	0.017 J	NA	NA	312	NA	NA	NA	7.18	17.3	6387	96.4	17	1.02		
09/21/16	< 3900	< 2000	< 1400	< 340	< 1400	< 1400	< 1400	110,000	470 J	< 140	110,470	NA	NA	NA	NA	COD=78	< 0.191	NA	NA	810	NA	NA	NA	7.17	21.6	6903	60.2	-130	1.38		
12/1-12/6/16	ON-SITE EXCAVATION																														
MW-5R	01/23/17	< 39	< 20	< 14	< 3.4	< 14	< 14	990	20	< 1.4	1,010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.97	12.1	6444	24.2	361	1.18		
	04/24/17	< 97	< 50	< 35	< 8.4	160	< 35	< 35	3,600	55	< 3.6	3,815	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.08	15.3	6542	83.2	319	1.31		
	11/12/18	< 19	< 10	< 7	< 1.7	270	< 7	< 7	740	150	< 0.71	1,160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.22	14.3	4384	74.4	2.55	82		
	04/05/19	< 39	< 20	< 14	< 3.4	270 D	< 14	< 14	1,900 D	300 D	< 1.4	2,470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.10	10.8	6110	15.1	37	2.9		



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																													
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)						Field Measurements (units as indicated)								
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)	
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--	
Intermediate Overburden Wells																														
MW-1	12/08/06	< 10	< 10	< 10	<10	2 J	< 10	64 DJ	4100	21	< 10	4,123	NA	NA	NA	NA	NA	NA	1.8	113 J	NA	NA	NA	7.09	10.5	1903	< 1000	0	3.02	
	04/24/08	< 5	< 1	< 1	< 1	< 1	< 1	< 1	26	< 1	< 1	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.73	19.4	1948	< 1000	193	2.13	
	08/18/08	HRC INJECTION																												
	10/02/08	23	1.9	0.65 J	< 1.0	<1.0	< 1	< 1	29	0.51 J	< 1	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.90	12.5	2502	363	5	1.76	
	12/18/08	21	< 1	< 1	< 1.0	15	< 1	< 1	32	0.87 J	< 1	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.64	11.5	2217	-13	25.2	0.067	
	02/11/09	11	< 1	< 1	< 1.0	20	< 1	< 1	8.4	< 1	< 1	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.86	13.3	2064	10	-98	0.98	
	04/21/09	4.3 J	0.98 J	< 1	< 1.0	16	< 1	< 1	12	0.58 J	< 1	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.70	14.1	1914	67	-248	0.41	
	07/17/09	< 5	6.5	< 1	< 1.0	9.1	< 1	< 1	3.9	< 1	< 1	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.04	15.0	1945	4.1	-273	0.59	
	03/29/10	< 5	< 0.19	< 0.34	< 0.29	33	< 1	< 0.44	93	0.78 J	< 0.24	127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.63	11.9	2093	50	-193	1.58	
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	14	< 1	< 0.44	43	< 1	< 0.9	57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.01	14.3	2070	13	-195	0.95	
06/05/12	< 10	< 0.19	< 0.34	< 0.29	5	< 1	< 0.44	62	0.71 J	< 0.9	68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.19	14.2	2153	7.5	-158	0.92		
08/13/15	< 1.3	< 0.19	< 0.34	< 0.29	1.9	< 0.9	< 0.44	1.6	< 0.46	< 0.9	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.47	14.6	2384	16	-82	1.32		
MW-2	12/08/06	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10	5 J	< 10	< 10	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.89	9.2	1774	122	16	1.6	
	08/18/08	HRC INJECTION																												
	03/30/10	< 5	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	6.5	< 1	< 0.24	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.34	12.8	3492	63	5	3.35	
	06/03/11	< 5	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	0.76 J	< 1	< 0.9	0.76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.23	15.4	2837	8.4	87	1.53	
	06/04/12	< 10	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	0.81 J	< 1	< 0.9	0.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.47	14.3	3410	4.1	574	2.34	
08/13/15	< 1.3	< 0.19	0.37 J	< 0.29	< 0.81	< 0.9	< 0.44	110 D	< 0.46	< 0.9	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.52	17.4	2263	50	-34	2.15		
MW-3	12/08/06	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10	6 J	< 10	< 10	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.91	9.6	1746	231	82	2.16	
	04/24/08	< 5	< 1	< 1	< 1	< 1	< 1	0.55 J	< 1	< 1	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.35	16.6	1821	< 1000	99	4.09	
	08/18/08	HRC INJECTION																												
	03/30/10	< 5	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	7.1	< 1	< 0.24	7.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.05	11.8	2109	17	-93	1.97	
	06/02/11	< 5	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	9.1	< 1	< 0.9	9.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.30	15.0	2000	7	-63	1.6	
06/04/12	< 10	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	1.1	< 1	< 0.9	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.50	13.6	2024	7.4	473	3.4		
08/13/15	< 1.3	< 0.19	< 0.34	< 0.29	< 0.81	< 0.9	0.44	93	< 0.46	< 0.9	93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.46	18.8	2225	2.4	27	1.59		
Deep Overburden Wells																														
MW-4	04/24/08	< 5	< 1	< 1	<1.0	1.2	< 1	< 1	300 D	0.6 J	< 1	302	0.57	NA	NA	0.22 J	NA	ND	0.081	1.7	118	ND	ND	ND	7.30	18.0	1879	< 1000	114	3.27
	08/18/08	HRC INJECTION																												
	10/02/08	17	1.1	< 1	ND	4	< 1	< 1	11	< 1	< 1	15	28.3	< 2.99	3.73	< 2.99	NA	20.6	1.8	0.38	96.4	ND	ND	0.0025	6.23	13.5	2830	178	-46	1.71
	12/18/08	25	< 1	< 1	< 1	4.6	< 1	< 1	7.1	< 1	< 1	12	1.2	< 1.1	< 1.1	< 1.1	NA	21.8	1.5	0.37	63.9	ND	ND	0.014	5.90	11.2	2821	NA	-76	0.84
	02/11/09	28	< 1	< 1	< 1.0	6.3	< 1	< 1	2	< 1	< 1	8	13.2	< 1.6	< 1.6	7.7	NA	15.4	0.676	0.372	65.4	< 0.0015	< 0.0015	0.0333	6.17	13.4	2435	20	-132	0.93
	04/21/09	20	0.41 J	< 1	< 1.0	1.6	< 1	< 1	1.9	< 1	< 1	4	1.5 J	< 2.5	< 2.5	< 2.5	NA	10.4	0.321	0.551	61	< 0.3	< 0.3	0.85	6.50	4.9	2003	16	-198	0.68
	07/17/09	19	0.61 J	< 1	< 1.0	2	< 1	< 1	73	< 1	< 1	75	NA	NA	NA	NA	NA	2.37	0.278	< 0.05	64	< 1.5	< 1.5	6.1	6.64	16.2	2642	15	-185	0.64
	03/29/10	< 5	< 0.19	< 0.34	< 0.29	1.3	< 1	< 0.44	4.8	< 1	< 0.24	6.1	21.8	< 2.2	< 2.2	< 2.2	NA	< 0.05	0.139	0.586	97.8	< 1.5	< 1.5	5.5	7.01	11.3	2161	6.6	-118	1.29
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	< 1	< 1	< 0.44	2.4	< 1	< 1	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.29	13.9	2053	8.0	-82	8	
	06/05/12	< 10	< 0.19	< 0.34	< 0.29	2.5	< 1	< 0.44	120 D	3.3	< 0.9	126	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.19	14.0	2156	4.5	21	2.57	
08/13/15	< 1.3	< 0.19	< 0.34	< 0.29	1.6	< 0.9	< 0.44	1.0	< 0.46	< 0.9	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.39	16.2	2339	14	-59	1.56		



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS
275 Franklin Street & 432 Pearl Street Sites
BCP Sites No. C915208 & C915237
Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																															
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)							Field Measurements (units as indicated)									
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)			
GWQS²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--			
MW-6	04/25/08	< 20	< 4	< 4	ND	< 4	< 4	9400 D	8.8 J	< 4	9409	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.57	15.2	1861	< 1000	-138	2.18			
	08/18/08	HRC INJECTION																														
	10/02/08	43	< 1	< 1	ND	44	< 1	< 1	53	9.5	< 1	107	33.2	< 1.23	7.01	0.588 J	NA	15.8	0.97	0.32	420	ND	ND	ND	6.57	13.7	2475	3669	-51	1.94		
	12/18/08	130	< 1	< 1	< 1	150 D	1.2	< 1	21	< 1	< 1	172	14.5	< 5	< 5	< 5	NA	48.7	3	ND	ND	ND	0.0066	5.79	11.8	3911	NA	0.111	0.78			
	02/11/09	45 D	< 1	< 1	< 1.0	270 D	< 1	< 1	22 D	17 D	< 1	309	5.7	< 2.4	< 2.4	4.4	NA	35.5	1.75	< 0.05	13.4	< 0.0015	< 0.0015	0.257	5.91	12.9	3565	46	-102	1.53		
	04/21/09	29	0.52 J	< 1	< 1.0	130 D	1.5	< 1	43	14	< 1	189	2.1 J	< 2.4	< 2.4	2.6	NA	7.44	0.671	0.011 J	4.7	< 1.5	< 1.5	< 1	6.64	14.5	2394	31	-142	0.93		
	07/17/09	11 DJ	2.5 DJ	< 4.0	< 4.0	240 D	< 4	3.1 DJ	17 D	3.8 D	< 4.0	261	0.8 J	< 1.3	< 1.3	0.4 J	NA	< 0.05	< 0.003	0.42	83	< 1.5	< 1.5	6.4 D	7.04	15.0	2156	16	-131	2.32		
	03/29/10	< 10	< 0.39	< 0.67	< 0.59	28 D	< 2	< 0.88	140 D	36 D	< 0.49	204	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.11	12.0	2261	12	-85	2.51			
	06/02/11	< 10	< 0.19	< 0.34	< 0.29	29	< 1	< 0.44	200 D	19 D	< 0.9	248 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.20	14.3	2066	13	-90	1.72			
06/05/12	< 10	< 0.38	< 0.68	< 0.58	6	< 1	< 0.88	91	42	< 1.8	139	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.31	13.8	2217	16	5	2.52				
08/13/15	< 1.3	< 0.19	< 0.34	< 0.29	12	< 0.9	< 0.44	1.2	1.3	< 0.9	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.40	15.5	2268	27	-71	1.28				
MW-7	08/18/08	HRC INJECTION																														
	06/05/12	< 10	< 0.19	< 0.34	< 0.29	51	< 1	< 0.44	18	< 1	< 0.9	69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.26	13.9	2089	29	1.7	85			
	8/14/15+	910	50	< 6.8	< 5.8	38	< 18	13 J	< 7.2	< 9.2	< 18	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Poor quality of groundwater prevented sample measurement.								
Off-Site NYSDEC Wells (S = shallow, D = deep)³																																
MW-21S Decommissioned 2018	08/18/08	HRC INJECTION																														
	05/28/09	< 5	< 1	0.75 J	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
	06/07/11	< 10	< 5	< 5	< 5.0	< 5	< 5	< 5.0	< 5	< 5	< 5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
MW-21D Decommissioned 2018	08/18/08	HRC INJECTION																														
	05/28/09	< 5	< 1	1.4 J	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
	06/07/11	< 10	< 5	< 5	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
MW-22S Decommissioned 2018	08/18/08	HRC INJECTION																														
	05/28/09	< 5	< 1	< 1	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
	06/07/11	< 10	< 5	< 5	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
MW-22D Decommissioned 2018	08/18/08	HRC INJECTION																														
	05/28/09	< 5	< 1	0.92 J	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
	06/07/11	< 10	< 5	< 5	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
MW-23S	08/18/08	HRC INJECTION																														
	05/28/09	< 5	< 1	0.64 J	< 1	47	< 1	< 1	560 D	3.6	< 1	611	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
	06/07/11	< 50	< 50	< 50	< 5.0	< 50	< 50	< 50	650	< 50	< 50	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	(4)	(4)	(4)	(4)		
	06/04/12	< 10	< 0.19	< 0.34	< 0.29	11	< 1	< 0.44	1800 D	4.1	< 0.9	1,815	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.63	11.8	3366	47	482	2.35			
	04/16/14	IET INJECTION																														
	09/03/14	< 1.3	< 0.19	0.47 J	< 0.29	5.7	< 0.9	< 0.44	1400 D	3.4	< 0.9	1,409	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.32	17.2	2755	51	26	0.82		
	04/16/15	< 66	< 9.5	17	< 15	250	< 45	< 22	1200	72	< 45	1,522	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	9.4	7.41	9.6	3441	25	45	3.17
	08/14/15	< 66	< 9.5	< 17	< 15	60	< 45	33 J	1300	93	< 45	1,486	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	5.2	7.25	17.4	4791	16	150	1.18
	12/1-12/6/16	ON-SITE EXCAVATION																														
01/23/17	< 19	< 10	< 7	< 1.7	7.1 J	< 7	< 7	470	10	< 0.71	487	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.20	13.1	4083	0.87	186	3.11			
04/24/17	< 19	< 10	< 7	< 1.7	26	< 7	< 7	660	15	< 0.71	701	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.31	11.8	2792	15.2	71	1.49			
11/12/18	< 9.7	< 5	< 3.5	< 0.84	< 3.5	< 3.5	< 3.5	590	3	< 0.36	593	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.19	17.1	2887	11.7	56	1.58			
04/05/19	< 4.8	< 2.5	2.1 J D	< 0.42	< 1.8	< 1.8	< 1.8	310 D	1.1 J D	< 0.18	313	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.29	9.4	3571	8.0	36	1.86			



TABLE 3
SUMMARY OF PRE- AND POST-REMEDIAL GROUNDWATER ANALYTICAL RESULTS

275 Franklin Street & 432 Pearl Street Sites
 BCP Sites No. C915208 & C915237
 Buffalo, New York

Monitoring Location & Sample Date	Parameter ¹																													
	TCL Volatile Organic Compounds (ug/L)											Microbial Parameters (cells/mL)				Water Quality Parameters (mg/L)							Field Measurements (units as indicated)							
	2-Butanone (MEK)	Carbon disulfide	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	Total TCL cVOCs	Dehalococoides	TCE R-Dase	BAV1 VC R-Dase	Vinyl Chloride Reductase (VC R-Dase)	Total Organic Carbon (TOC)	Iron- Soluble	Manganese- Soluble	Nitrate, mg/L-N	Sulfate	Ethane	Ethene	Methane	pH (units)	Temperature (°C)	Specific Conductance (uS)	Turbidity	ORP (mV)	DO (ppm)	
GWQS ²	50	--	7	5	5	5	5	5	5	2	--	--	--	--	--	300	300	10	250	--	--	250	6.5 - 8.5	--	--	--	--	--	--	
MW-25S	08/18/08	HRC INJECTION																												
	10/24/12	< 1.3	< 0.19	0.43 J	< 0.29	2.9	< 0.9	< 0.44	1900	6.6	< 0.9	1,910	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/16/14	IET INJECTION																												
	07/30/15	< 5.3	< 0.76	< 1.4	< 1.2	200	< 3.6	< 1.8	300	10	17	527	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/01/17	< 5.3	< 0.76	< 1.4	< 1.2	190 F1	< 3.6	< 1.8	56	5.2	36	287	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/11/17	< 5.3	< 0.76	< 1.4	< 1.2	310	< 3.6	< 1.8	46	5.8	< 3.6	362	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/18/19	< 26	< 3.8	< 6.8	< 5.8	880	< 18	21	1300	210	< 18	2,390	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-26S	08/18/08	HRC INJECTION																												
	10/24/12	< 1.3	< 0.19	< 0.34	< 0.29	5.4	< 0.9	< 0.44	3100	12	< 0.9	3,117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/16/14	IET INJECTION																												
	07/30/15	< 5.3	< 0.76	< 1.4	< 1.2	3.6 J	< 3.6	1.8	350	3.7 J	< 3.6	357	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/01/17	< 5.3	< 0.76	< 1.4	< 1.2	110	< 3.6	< 1.8	4500 D	85	< 3.6	4,695	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/11/17	< 110	< 15	< 27	< 23	130	< 72	< 35	4500	76 J	< 72	4,706	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/18/19	< 66	< 9.5	< 17	< 15	140	< 45	55	2900	100	< 45	3,140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27S	08/18/08	HRC INJECTION																												
	10/24/12	< 1.3	< 0.19	0.63 J	< 0.38	< 0.81	< 0.9	< 0.44	1.7	< 0.46	< 0.9	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/16/14	IET INJECTION																												
	07/30/15	< 1.3	< 0.19	0.36 J	< 0.29	< 0.81	< 0.9	< 0.44	1.4	< 0.46	< 0.9	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
05/11/17	< 1.3	< 0.19	0.47 J	< 0.29	< 0.81	< 0.9	< 0.44	1.7 F1	< 0.46	< 0.9	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

- Notes:**
1. Only those parameters detected above their specific GWQS at a minimum of one sample location are presented. Some additional parameters were detected but not included due to low concentrations and sporadic detection.
 2. Groundwater Quality Standard (GWQS) per NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1.
 3. Groundwater data for the May 2009, June 2011, October 2012, and July 2015 events obtained from NYSDEC. The additional sampling events were performed by Benchmark.
 4. Field parameter results were not provided by the NYSDEC.

Definitions:

< 0.19 = Parameter not detected above laboratory method detection limit.
 NA = Sample not analyzed for parameter.
 "--" = No groundwater quality standard available.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.
 b = Analyte was detected in the associated blank as well as in the sample. Value is above the action level for consideration as being external contamination.
 B = Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
 D = Concentration of analyte was quantified from a diluted analysis.
 NS = Not sampled due to car parked over well; several attempts to sample were made over a 2-week period.

* = Indicates the spike or duplicate analysis is not within the quality control limits.
 D2 = Concentration of analyte was quantified at a secondary dilution.
 N = Indicates spike sample recovery is not within the quality control limits.
 E = Result exceeds calibration range.
 P = Detected concentrations between the two GC columns is greater than 25%; lower value is reported and flagged (for CLP methodology only).
 H = Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
 "*" = Additional analytes detected but not included in this table are: 2-hexanone (31 J ug/L) and acetone (920 ug/L)
 F1 = MS and/or MSD recovery is outside acceptable limits.

 Insufficient sample to collect final field parameter measurements; values measured before sample collected.

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORMS

APPENDIX A1

C915208



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.	C915208		
Site Name 275 Franklin Street			
Site Address: 275 Franklin Street		Zip Code: 14202	
City/Town: Buffalo			
County: Erie			
Site Acreage: 0.260			
Reporting Period: December 27, 2017 to April 27, 2019			
		YES	NO
1.	Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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. C915208

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

111.38-2-22

Buffalo Development Corporation

Ground Water Use Restriction
Landuse Restriction
Site Management Plan
IC/EC Plan

Soil Management 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

111.38-2-23

Buffalo Development Corporation

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
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

Box 4

Description of Engineering Controls

Parcel

Engineering Control

111.38-2-22

Vapor Mitigation
Cover System

- Cover consisting of hardscape or clean soil
- In-situ plume reduction measure
- Vapor intrusion mitigation for new structures

111.38-2-23

Cover System

Parcel

Engineering Control

Vapor Mitigation

- Site cover consisting of hardscape or clean soil
- In-situ plume reduction measure
- Vapor intrusion mitigation for existing and new structures

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 complete.

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. C915208

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.

Mark D. Croce at 257 Franklin St., Buffalo, NY 14202
print name print business address

am certifying as Owner (President) (Owner or Remedial Party)

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

Mark D. Croce
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification


05/23/19
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional 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.

Lori Riker, P.E. at 2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218 

print name print business address

I am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

5/23/19

Date

APPENDIX A2

SITE C915237



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details

Site No. **C915237**

Site Name **432 Pearl Street**

Site Address: 432 Pearl Street Zip Code: 14202
 City/Town: Buffalo
 County: Erie
 Site Acreage: 0.700

Reporting Period: December 28, 2017 to April 28, 2019

Box 1

- | | YES | NO |
|--|-------------------------------------|-------------------------------------|
| 1. Is the information above correct? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Box 2

- | | YES | NO |
|---|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?
Restricted-Residential, Commercial, and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs/ECs in place and functioning as designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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. C915237

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

111.38-2-20.1

Buffalo Development Corporation

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Building Use Restriction
Monitoring Plan
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
- Compliance with the Operations Management plan for the vapor mitigation system
- Annual monitoring of groundwater
- Highest land use is restricted to restricted residential

111.38-2-4.1

Buffalo Development Corporation

Site Management Plan
Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
IC/EC Plan

Building Use Restriction

- 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

111.38-2-20.1

Vapor Mitigation
Cover System

- Cover consisting of hardscape or clean soil
- In-situ plume reduction measure
- Vapor intrusion mitigation for existing and new structures

111.38-2-4.1

Cover System

Parcel

Engineering Control

- Cover consisting of hardscape or clean soil
- Vapor intrusion mitigation for new structures

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 complete.

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. C915237

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 Mark D. Croce at 257 Franklin St., Buffalo, NY 14202
print name print business address

am certifying as Owner (President) (Owner or Remedial Party)

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

Mark D. Croce
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

05/23/19
Date

IC/EC CERTIFICATIONS

Box 7

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 Lori Riker, P.E. at 2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
print name print business address

I am certifying as a Owner for the _____
(Owner or Remedial Party)



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

Stamp
(Required for PE)

5/23/19
Date

APPENDIX B

PHOTOGRAPHIC LOG

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



432 PEARL STREET

Photo 1: Asphalt cover system along eastern property boundary (looking south)

Photo 2: Asphalt cover system, from southwest corner of property (looking west)

Photo 3: Asphalt cover system along western property boundary and Asbury Alley (looking southeast)

Photo 4: Asphalt cover system in center of property (looking east)

SITE PHOTOGRAPHS

Photo 5:



Photo 6:



Photo 7:



Photo 8:



267 FRANKLIN STREET

Photo 5: Asphalt cover system from northeast corner of property (looking west)

Photo 6: Asphalt cover system from western property boundary (looking east)

Photo 7: Asphalt cover system requiring repair between 267 and 275 Franklin Street properties (looking east)

Photo 8: Repaired cover system (looking west)

SITE PHOTOGRAPHS

Photo 9:



Photo 10:

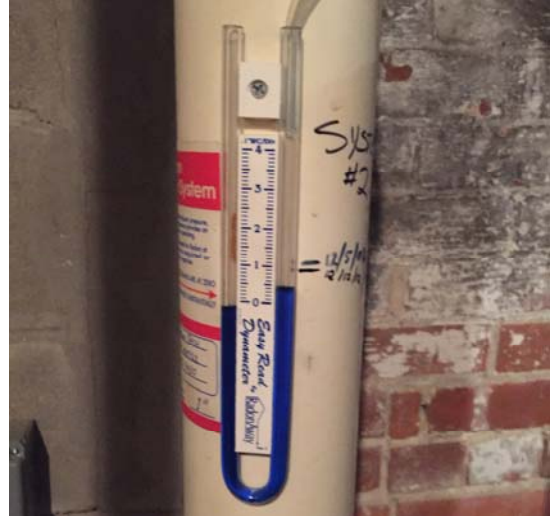


Photo 11:



Photo 12:



267 FRANKLIN STREET APARTMENT ASD SYSTEM

Photo 9: System #1 manometer in basement

Photo 10: System #2 manometer in basement

Photo 11: System #1 RP265 series fans on roof

Photo 12: System #2 GP501 series fan on roof

SITE PHOTOGRAPHS

Photo 13:



Photo 14:



Photo 15:



Photo 16:



275 FRANKLIN STREET

Photo 13: Asphalt cover system from southeast corner of property (looking northwest)

Photo 14: New asphalt cover over excavation area (looking south)

Photo 15: Asphalt cover system from northern property boundary (looking south)

Photo 16: Asphalt and concrete cover systems from western property boundary (looking southeast)

APPENDIX C

GROUNDWATER ANALYTICAL DATA, FIELD NOTES, AND DUSRs



ANALYTICAL REPORT

Lab Number:	L1846321
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Lori Riker
Phone:	(716) 856-0599
Project Name:	275 FRANKLIN ST. SITE
Project Number:	B0156-018-001
Report Date:	11/19/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: 275 FRANKLIN ST. SITE**Project Number:** B0156-018-001**Lab Number:** L1846321**Report Date:** 11/19/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1846321-01	MW-5R	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:48	11/12/18
L1846321-02	PZ-4	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:00	11/12/18
L1846321-03	PZ-5	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 09:40	11/12/18
L1846321-04	PZ-6	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 09:00	11/12/18
L1846321-05	PZ-11	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:10	11/12/18
L1846321-06	PZ-12	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:45	11/12/18
L1846321-07	PZ-13	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 11:40	11/12/18
L1846321-08	PZ-14	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 11:15	11/12/18
L1846321-09	MW-24S	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 12:50	11/12/18
L1846321-10	MW-24D	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 12:25	11/12/18
L1846321-11	MW-23S	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 13:40	11/12/18
L1846321-12	TRIP BLANK	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 00:00	11/12/18

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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

HOLD POLICY

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

Case Narrative (continued)

Report Submission

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

Sample Receipt

L1846321-12: A sample identified as "TRIP BLANK" was received but not listed on the Chain of Custody. This sample was not analyzed.

Volatile Organics

L1846321-03: The surrogate recovery for 1,2-dichloroethane-d4 (134%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

L1846321-06: The surrogate recovery for 1,2-dichloroethane-d4 (140%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

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

Authorized Signature:

 Amita Naik

Title: Technical Director/Representative

Date: 11/19/18

ORGANICS

VOLATILES

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-01 D
 Client ID: MW-5R
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:48
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 16:00
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	740		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	150		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-01 D
 Client ID: MW-5R
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:48
 Date Received: 11/12/18
 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	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	270		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-02 D
 Client ID: PZ-4
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:00
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 16:25
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1400		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	23		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-02 D
 Client ID: PZ-4
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:00
 Date Received: 11/12/18
 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	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	17	J	ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: 275 FRANKLIN ST. SITE**Lab Number:** L1846321**Project Number:** B0156-018-001**Report Date:** 11/19/18**SAMPLE RESULTS**

Lab ID: L1846321-03 D
 Client ID: PZ-5
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 09:40
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/17/18 11:06
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	ND		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.54	4
1,2-Dichloropropane	ND		ug/l	4.0	0.55	4
Dibromochloromethane	ND		ug/l	2.0	0.60	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	340		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.53	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.58	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.67	4
Benzene	ND		ug/l	2.0	0.64	4
Toluene	ND		ug/l	10	2.8	4
Ethylbenzene	ND		ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	ND		ug/l	4.0	0.28	4
Chloroethane	ND		ug/l	10	2.8	4
1,1-Dichloroethene	ND		ug/l	2.0	0.68	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Trichloroethene	ND		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	ND		ug/l	10	2.8	4

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-03 D
 Client ID: PZ-5
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 09:40
 Date Received: 11/12/18
 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	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	ND		ug/l	10	2.8	4
o-Xylene	ND		ug/l	10	2.8	4
cis-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	ND		ug/l	20	5.8	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	ND		ug/l	20	7.8	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
Bromochloromethane	ND		ug/l	10	2.8	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Isopropylbenzene	ND		ug/l	10	2.8	4
1,2,3-Trichlorobenzene	ND		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
Methyl Acetate	ND		ug/l	8.0	0.94	4
Cyclohexane	ND		ug/l	40	1.1	4
1,4-Dioxane	ND		ug/l	1000	240	4
Freon-113	ND		ug/l	10	2.8	4
Methyl cyclohexane	ND		ug/l	40	1.6	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	134	Q	70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	117		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-04 D
 Client ID: PZ-6
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 09:00
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 16:51
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	250		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Trichloroethene	2.7		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-04 D
 Client ID: PZ-6
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 09:00
 Date Received: 11/12/18
 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	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	2.4	J	ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl Acetate	ND		ug/l	5.0	0.58	2.5
Cyclohexane	ND		ug/l	25	0.68	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
Methyl cyclohexane	ND		ug/l	25	0.99	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-05 D
 Client ID: PZ-11
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:10
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 17:16
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1300		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	14		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-05 D
 Client ID: PZ-11
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:10
 Date Received: 11/12/18
 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	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	18	J	ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-06 D
 Client ID: PZ-12
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:45
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/17/18 12:30
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	830		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-06 D
 Client ID: PZ-12
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 10:45
 Date Received: 11/12/18
 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	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	140	Q	70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	117		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-07
 Client ID: PZ-13
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 11:40
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 15:10
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	16		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	32		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	0.73	J	ug/l	2.5	0.70	1
Trichloroethene	3.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-07
 Client ID: PZ-13
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 11:40
 Date Received: 11/12/18
 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	21		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-08
 Client ID: PZ-14
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 11:15
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 15:35
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	32		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	20		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
Trichloroethene	9.8		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-08
 Client ID: PZ-14
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 11:15
 Date Received: 11/12/18
 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	50		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-09 D
 Client ID: MW-24S
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 12:50
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 17:41
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	3900		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	5.7	J	ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-09 D
 Client ID: MW-24S
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 12:50
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-10 D
 Client ID: MW-24D
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 12:25
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 18:07
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	ND		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.54	4
1,2-Dichloropropane	ND		ug/l	4.0	0.55	4
Dibromochloromethane	ND		ug/l	2.0	0.60	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	450		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.53	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.58	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.67	4
Benzene	ND		ug/l	2.0	0.64	4
Toluene	ND		ug/l	10	2.8	4
Ethylbenzene	ND		ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	ND		ug/l	4.0	0.28	4
Chloroethane	ND		ug/l	10	2.8	4
1,1-Dichloroethene	ND		ug/l	2.0	0.68	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4
Trichloroethene	120		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	ND		ug/l	10	2.8	4

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-10 D
 Client ID: MW-24D
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 12:25
 Date Received: 11/12/18
 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	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	ND		ug/l	10	2.8	4
o-Xylene	ND		ug/l	10	2.8	4
cis-1,2-Dichloroethene	250		ug/l	10	2.8	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	ND		ug/l	20	5.8	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	ND		ug/l	20	7.8	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
Bromochloromethane	ND		ug/l	10	2.8	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Isopropylbenzene	ND		ug/l	10	2.8	4
1,2,3-Trichlorobenzene	ND		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
Methyl Acetate	ND		ug/l	8.0	0.94	4
Cyclohexane	ND		ug/l	40	1.1	4
1,4-Dioxane	ND		ug/l	1000	240	4
Freon-113	ND		ug/l	10	2.8	4
Methyl cyclohexane	ND		ug/l	40	1.6	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-11 D
 Client ID: MW-23S
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 13:40
 Date Received: 11/12/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 11/18/18 18:32
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	590		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	ND		ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	ND		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Trichloroethene	3.0		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

SAMPLE RESULTS

Lab ID: L1846321-11 D
 Client ID: MW-23S
 Sample Location: 275 FRANKLIN ST., BUFFALO, NY

Date Collected: 11/12/18 13:40
 Date Received: 11/12/18
 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	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
Methyl Acetate	ND		ug/l	10	1.2	5
Cyclohexane	ND		ug/l	50	1.4	5
1,4-Dioxane	ND		ug/l	1200	300	5
Freon-113	ND		ug/l	12	3.5	5
Methyl cyclohexane	ND		ug/l	50	2.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/17/18 07:23
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,06 Batch: WG1180980-5					
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: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/17/18 07:23
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,06 Batch: WG1180980-5					
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: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 11/17/18 07:23
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,06 Batch: WG1180980-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	112		70-130

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/18/18 14:44
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05,07-11 Batch: WG1180994-5					
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: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 11/18/18 14:44
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05,07-11 Batch: WG1180994-5					
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: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 11/18/18 14:44
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-05,07-11 Batch: WG1180994-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06 Batch: WG1180980-3 WG1180980-4								
Methylene chloride	87		89		70-130	2		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	93		94		70-130	1		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		89		70-130	21	Q	20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	93		93		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	110		100		70-130	10		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	97		100		67-130	3		20
trans-1,3-Dichloropropene	120		110		70-130	9		20
cis-1,3-Dichloropropene	93		80		70-130	15		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	98		91		67-130	7		20
Benzene	76		78		70-130	3		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		99		70-130	1		20
Chloromethane	110		110		64-130	0		20
Bromomethane	93		87		39-139	7		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06 Batch: WG1180980-3 WG1180980-4								
Chloroethane	97		96		55-138	1		20
1,1-Dichloroethene	93		96		61-145	3		20
trans-1,2-Dichloroethene	95		98		70-130	3		20
Trichloroethene	88		92		70-130	4		20
1,2-Dichlorobenzene	94		110		70-130	16		20
1,3-Dichlorobenzene	96		97		70-130	1		20
1,4-Dichlorobenzene	96		100		70-130	4		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	115		100		70-130	14		20
cis-1,2-Dichloroethene	94		94		70-130	0		20
Styrene	115		100		70-130	14		20
Dichlorodifluoromethane	85		87		36-147	2		20
Acetone	110		110		58-148	0		20
Carbon disulfide	96		97		51-130	1		20
2-Butanone	120		110		63-138	9		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	93		91		57-130	2		20
Bromochloromethane	90		90		70-130	0		20
1,2-Dibromoethane	94		94		70-130	0		20
1,2-Dibromo-3-chloropropane	85		93		41-144	9		20
Isopropylbenzene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	93		100		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Project Number: B0156-018-001

Lab Number: L1846321

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06 Batch: WG1180980-3 WG1180980-4								
1,2,4-Trichlorobenzene	93		110		70-130	17		20
Methyl Acetate	130		130		70-130	0		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	132		112		56-162	16		20
Freon-113	97		99		70-130	2		20
Methyl cyclohexane	92		96		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	127		127		70-130
Toluene-d8	117		115		70-130
4-Bromofluorobenzene	111		109		70-130
Dibromofluoromethane	111		108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05,07-11 Batch: WG1180994-3 WG1180994-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	98		94		63-130	4		20
1,1,2-Trichloroethane	110		100		70-130	10		20
Tetrachloroethene	98		92		70-130	6		20
Chlorobenzene	100		95		75-130	5		20
Trichlorofluoromethane	120		110		62-150	9		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	110		100		70-130	10		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	92		88		54-136	4		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	110		100		70-130	10		20
Toluene	100		98		70-130	2		20
Ethylbenzene	100		96		70-130	4		20
Chloromethane	120		110		64-130	9		20
Bromomethane	47		45		39-139	4		20
Vinyl chloride	130		120		55-140	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05,07-11 Batch: WG1180994-3 WG1180994-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	100		95		61-145	5		20
trans-1,2-Dichloroethene	100		94		70-130	6		20
Trichloroethene	100		95		70-130	5		20
1,2-Dichlorobenzene	98		92		70-130	6		20
1,3-Dichlorobenzene	98		92		70-130	6		20
1,4-Dichlorobenzene	99		94		70-130	5		20
Methyl tert butyl ether	100		99		63-130	1		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		96		70-130	4		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	120		120		58-148	0		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	120		120		63-138	0		20
4-Methyl-2-pentanone	95		94		59-130	1		20
2-Hexanone	97		94		57-130	3		20
Bromochloromethane	97		93		70-130	4		20
1,2-Dibromoethane	98		95		70-130	3		20
1,2-Dibromo-3-chloropropane	87		81		41-144	7		20
Isopropylbenzene	100		95		70-130	5		20
1,2,3-Trichlorobenzene	91		88		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN ST. SITE

Lab Number: L1846321

Project Number: B0156-018-001

Report Date: 11/19/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-05,07-11 Batch: WG1180994-3 WG1180994-4								
1,2,4-Trichlorobenzene	91		87		70-130	4		20
Methyl Acetate	120		120		70-130	0		20
Cyclohexane	120		110		70-130	9		20
1,4-Dioxane	80		106		56-162	28	Q	20
Freon-113	110		99		70-130	11		20
Methyl cyclohexane	110		99		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		108		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	102		101		70-130

Project Name: 275 FRANKLIN ST. SITE**Lab Number:** L1846321**Project Number:** B0156-018-001**Report Date:** 11/19/18**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(*)
L1846321-01A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-01B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-01C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-02A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-02B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-02C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-03A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-03B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-03C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-04A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-04B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-04C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-05A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-05B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-05C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-06A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-06B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-06C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-07A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-07B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-07C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-08A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-08B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Serial_No:11191816:23
Lab Number: L1846321
Report Date: 11/19/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1846321-08C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-09A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-09B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-09C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-10A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-10B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-10C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-11A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-11B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-11C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260-R2(14)
L1846321-12A	Vial HCl preserved	A	NA		3.3	Y	Absent		ARCHIVE()
L1846321-12B	Vial HCl preserved	A	NA		3.3	Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
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

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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

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), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 ALPHA <small>ANALYTICAL</small>	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 2	Date Rec'd in Lab 11/13/18	ALPHA Job # L18416321														
		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																
Client Information Client: <u>Benchmark Environmental</u> Address: <u>2558 Hamburg Turnpike</u> <u>Suite 300, Buffalo NY 14218</u> Phone: <u>(716) 856-0599</u> Fax: _____ Email: <u>Lriker@benchmarkees.com</u>		Project Information Project Name: <u>275 Franklin St. Site</u> Project Location: <u>275 Franklin St</u> Project # <u>B0156-018-001</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other															
Project Manager: <u>Candace Fox</u> ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Billing Information <input type="checkbox"/> Same as Client Info PO # _____															
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments: <u>category A</u>		ANALYSIS Please specify Metals or TAL.															
Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Sample Specific Comments		Total Bottles															
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs - NYTA 8210													
46321-01	MW-5R	11-12-18	10:48	water	CMC	X													3
02	PZ-4		10:00		CMC	X													3
03	PZ-5		9:40		CMC	X													3
04	PZ-6		9:00		CMC	X													3
05	PZ-11		10:10		CMC	X													3
06	PZ-12		10:45		CMC	X													3
07	PZ-13		11:40		CMC	X													3
08	PZ-14		11:15		CMC	X													3
09	MW-24S		12:50		CMC	X													3
10	MW-24D		12:25		CMC	X													3
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <input checked="" type="checkbox"/>		Preservative <u>A</u>		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.)									
Relinquished By: <u>Charlotte Crank</u> <u>JmHe AAC</u>		Date/Time <u>11/12/18 16:00</u> <u>11/12/18 16:45</u>		Received By: <u>JmHe AAC</u> <u>JmHe AAC</u>		Date/Time <u>11/12/18 16:15</u> <u>11/13/18 01:05</u>													

 ALPHA <small>ANALYTICAL</small>	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 2 of 2	Date Rec'd in Lab 11/13/18	ALPHA Job # L1846321			
		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						
Project Information Project Name: 275 Franklin St. Site Project Location: 275 Franklin St. Buffalo NY Project # B0156-018-001 (Use Project name as Project #) <input type="checkbox"/>				Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #			
Client Information Client: Benchmark Environmental Address: 2558 Hamburg Turnpike Suite 300, Buffalo NY 14218 Phone: (716) 856-0599 Fax: Email: Lricker@benchmarkers.com				Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:									
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS		Sample Filtration			
Other project specific requirements/comments: <div style="text-align: center; font-size: 1.2em; margin-top: 10px;">Category A</div>				Total Bottles 3		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments			
Please specify Metals or TAL.									
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				
		Date	Time						
46321-11	MN-235	11-12-18	13:40	Water	CMC	X	3		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <input checked="" type="checkbox"/> Preservative A			
		Relinquished By:		Date/Time		Received By:		Date/Time	
		Charlotte Clark		11/28/18 16:00		Jm AC AAC		11/12/18 16:15	
		Jm AC AAC		11/12/18 16:45		Jm Alcega		11/13/18 01:05	
Form No: 01-25 HC (rev. 30-Sept-2013)				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.)					

GROUNDWATER FIELD FORM

Project Name: 275 Franklin Street Site

Date: 11/12/2018

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC /CCB

Well No. PZ-4R		Diameter (inches): 1"				Sample Date / Time: 11/12/18 10:00			
Product Depth (fbTOR):		Water Column (ft): 3.79				DTW when sampled: 11.03			
DTW (static) (fbTOR): 11.0		One Well Volume (gal): .15				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 14.79		Total Volume Purged (gal):				Purge Method: Bailen			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:35	0 Initial	0	6.92	12.6	6896	526	5.98	225	brown, cloudy
9:40	1 -	0.15	7.19	14.6	7745	>1000	6.12	178	↓
9:46	2 -	0.30	7.26	14.7	7654	>1000	6.60	168	↓
9:52	3 -	0.45	7.27	15.1	7424	>1000	6.38	159	↓
	4		7.31	15.2	7101	>1000	6.18	151	
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
10:00	S1 11.03	0.75	7.30	13.8	6990	>1000	6.05	143	
10:10	S2	0.80	7.30	15.4	6741	>1000	6.21	139	

Well No. PZ-5		Diameter (inches): 1"				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft): 4.36				DTW when sampled:			
DTW (static) (fbTOR): 10.73		One Well Volume (gal): 0.18				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 15.09		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
9:30	0 Initial	0	7.30	11.3	3133	98.8	5.40	94	clear no odor
9:35	1 -	0.2	7.30	13.6	3045	25.6	4.78	94	...
9:37	2 -	0.5	7.31	14.0	3007	8.46	5.05	92	...
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
9:40	S1 -	0.75	7.31	13.8	2952	3.73	4.92	91	...
9:45	S2 10.75	1.15	7.32	13.0	2915	2.30	4.94	87	...

REMARKS:

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

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 11/12/2018

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC / CCB

Well No. PZ-6		Diameter (inches): 1"		Sample Date / Time: 11/12/18 / 9:00					
Product Depth (fbTOR): —		Water Column (ft): 4.27		DTW when sampled:					
DTW (static) (fbTOR): 10.75		One Well Volume (gal): 0.175		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): 15.02		Total Volume Purged (gal):		Purge Method: peristaltic pump					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
8:47	0 Initial	0	7.05	12.5	2650	113	6.79	242	Clear
8:50	1 —	0.2	7.32	13.0	2590	21	5.80	191	"
8:55	2 —	0.40	7.39	13.5	2646	8.74	5.54	157	"
8:57	3 —	0.60	7.34	13.6	2647	4.18	4.99	146	"
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
9:00	S1 —	0.80	7.40	12.7	2656	3.41	4.99	121	"
9:05	S2 10.75	1.0	7.35	13.2	2688	3.23	5.30	122	"

Well No. PZ-11		Diameter (inches): 1"		Sample Date / Time:					
Product Depth (fbTOR):		Water Column (ft): 4.82		DTW when sampled:					
DTW (static) (fbTOR): 10.17		One Well Volume (gal): 0.20		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): 14.99		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
10:00	0 Initial	0	7.36	13.0	3599	245	4.75	79	Clear, no odor
10:04	1 —	0.25	7.36	14.1	3324	34.3	4.39	72	"
10:07	2 —	0.50	7.39	14.2	3280	3.98	4.41	72	"
3									
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
10:10	S1 —	0.75	7.39	13.7	3248	2.69	4.57	72	"
10:18	S2 10.20	1.0	7.42	12.8	3233	2.36	5.13	71	"

REMARKS:

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 11/12/2018

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC / CCB

Well No. PZ-12		Diameter (inches): 1"				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft): 4.87				DTW when sampled:			
DTW (static) (fbTOR): 10.31		One Well Volume (gal): 0.20				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 15.18		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
10:34	0 Initial	0	7.53	12.8	2497	69.8	5.16	68	Clear, no odor
10:36	1 -	0.20	7.49	13.8	2505	10.9	4.88	67	"
10:39	2 -	0.50	7.47	14.1	2515	5.03	4.79	68	"
10:42	3 -	0.80	7.48	14.4	2524	3.57	4.75	69	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
10:45	S1 -	1.0	7.48	14.1	2538	1.19	4.60	69	"
10:47	S2 10.30	1.15	7.51	13.5	2542	1.14	4.89	68	"

Well No. PZ-13		Diameter (inches): 1"				Sample Date / Time: 11/12/18			
Product Depth (fbTOR):		Water Column (ft): 2.61				DTW when sampled:			
DTW (static) (fbTOR): 10.41		One Well Volume (gal): 0.11				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 13.02		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
11:32	0 Initial	0	7.36	12.8	2923	71000	2.55	-97	brown turbid, no odor
11:34	1 -	0.15	7.33	14.2	2910	223	2.86	-80	"
11:36	2 -	0.40	7.33	14.6	2968	71000	2.52	-80	slight brown
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
11:40	S1 -	0.60	7.31	14.8	2991	83.2	2.81	-89	clear no odor
11:45	S2 10.4	0.70	7.34	14.6	2932	16.2	2.54	-92	"

REMARKS:

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

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 11/12/2018

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC / CCB

Well No. PZ-14		Diameter (inches): 1"				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft): 5 4.96				DTW when sampled:			
DTW (static) (fbTOR): 10.08		One Well Volume (gal): 0.20				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 15.04		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
11:04	0 Initial	0	7.26	13.3	2804	596	1.99	-74	turbid, brown, no odor
11:09	1 -	0.40	7.35	14.2	2805	41.5	1.85	-127	clear, no odor
11:11	2 -	0.60	7.36	14.6	2817	11.9	1.80	-134	"
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
11:15	S1 -	0.80	7.39	14.0	2820	6.93	1.95	-137	"
11:17	S2 10.1	1.10	7.41	13.1	2815	3.46	2.32	-138	"

Well No. MW-5		Diameter (inches): 2"				Sample Date / Time: 11/12/18 10:48			
Product Depth (fbTOR):		Water Column (ft): 7.52				DTW when sampled:			
DTW (static) (fbTOR): 11.33		One Well Volume (gal): 1.2				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 18.85		Total Volume Purged (gal):				Purge Method: Submersible Pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:30	0 Initial	0	7.26	13.7	4903	>1000	1.58	138	
10:35	1 10.47	1.0	7.22	15.2	4447	268	1.65	128	
10:38	2 10.43	2.0	7.21	15.1	4361	153	1.88	153	clear, no odor
10:43	3 10.39	3.0	7.23	14.5	4345	126	2.96	96	clear
	4 10								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
10:48	S1 10.41	3.5	7.22	14.3	4384	74.4	2.55	82	clear,
10:54	S2 10.45	4.0	7.21	15.3	4393	55.5	1.67	62	no odor

REMARKS:

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

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 11/12/2018

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC / CCB

Well No. MW-24S		Diameter (inches): 2"				Sample Date / Time: 11/12/2018			
Product Depth (fbTOR):		Water Column (ft): 8.29				DTW when sampled:			
DTW (static) (fbTOR): 10.33		One Well Volume (gal): 1.35				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 18.62		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
12:37	0 Initial	0	7.44	13.1	2988	553	5.71	-63	cloudy, no odor
12:39	1 10.37	1.0	7.39	14.2	2755	206	4.38	-31	some sediment, no odor
12:45	2 11.4	2.5	7.41	14.0	2790	72.0	4.53	-4	↓
12:48	3 11.38	3.0	7.42	14.2	2790	36.8	4.91	2	↓
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
12:50	S1 11.38	4.0	7.42	14.3	2781	30.6	4.96	8	clean, no odor
12:55	S2 11.37	5.0	7.48	13.5	2795	90.2	5.14	19	clean, no odor

Well No. MW-24D		Diameter (inches): 2"				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft): 36.08				DTW when sampled:			
DTW (static) (fbTOR): 11.03		One Well Volume (gal): 5.88				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 47.11		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
12:04	0 Initial	0	7.94	11.9	2381	55.5	4.396	109	clear, no odor
12:06	1 11.17	1.0	7.38	12.6	2337	9.57	3.59	-32	" "
12:10	2 11.17	2.0	7.21	12.4	2426	9.50	1.55	-53	" "
12:12	3 11.05	2.5	7.21	12.6	2335	8.78	1.49	-61	" "
12:16	4 11.17	3.0	7.35	10.8	2259	8.47	1.67	-101	" "
12:18	5 11.20	4.5	7.29	11.3	2244	7.85	1.80	-99	" "
12:23	6 11.25	6.0	7.24	12.1	2276	4.38	1.42	-95	" "
	7								
	8								
	9								
	10								
Sample Information:									
12:25	S1	7.0	7.20	12.5	2290	4.08	1.01	-96	" "
12:28	S2	8.0	7.23	12.4	2273	4.33	1.59	-103	" "

REMARKS:

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 11/12/2018

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC / CCB

Well No. MW-23S		Diameter (inches): 2"				Sample Date / Time: 11/12/18 13:40			
Product Depth (fbTOR): -		Water Column (ft): 7.37				DTW when sampled:			
DTW (static) (fbTOR): 11.15		One Well Volume (gal): 1.2				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 18.52		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
1325	0 Initial	0	7.33	11.8	2593	138	2.50	57	slight brown, no odor
1328	1 11.20	1.0	7.18	14.9	2574	171	1.95	61	clear, no odor
1330	2 11.20	1.5	7.24	15.8	2572	>1000	1.87	57	
1333	3 11.20	2.0	7.17	16.6	2714	132	1.92	57	
1335	4 11.20	3.0	7.15	17.0	2844	34	1.63	55	
1337	5 11.30	3.5	7.17	17.5	2885	14.4	0.95	56	" "
6									
7									
8									
9									
10									
Sample Information:									
1340	S1 11.35	4.0	7.19	17.1	2887	11.7	1.58	56	" "
1342	S2 11.35	5.0	7.18	17.3	2899	6.96	1.20	57	" "

Well No.		Diameter (inches):				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft):				DTW when sampled:			
DTW (static) (fbTOR):		One Well Volume (gal):				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input type="checkbox"/> 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:

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

MW-23D
11-57

PREPARED BY:



EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: **275 Franklin Street Site**

Date: **11/12/2018**

Project No.:

Client: **Buffalo Development Corporation**

Instrument Source: BM Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units		Myron L Company Ultra Meter 6P	<input checked="" type="checkbox"/> 6213516 <input type="checkbox"/> 6243084 <input type="checkbox"/> 6212375 <input type="checkbox"/> 6243003 <input type="checkbox"/> 6223973		4.00 7.00 10.01	4.03 7.03 10.50	
<input checked="" type="checkbox"/> Turbidity meter	NTU	7:30	Hach 2100P or 2100Q Turbidimeter	<input type="checkbox"/> 06120C020523 (P) <input type="checkbox"/> 13120C030432 (Q) <input checked="" type="checkbox"/> 17110C062619 (Q)		10 NTU verification < 0.4 20 100 800	23.3 10.3 8.2	
<input type="checkbox"/> Turbidity meter	NTU		LaMotte 2020	6523-1816 (La)		0.0 NTU 1.0 NTU 10.0 NTU		
<input type="checkbox"/> Sp. Cond. meter	uS mS		Myron L Company Ultra Meter 6P	<input type="checkbox"/> 6213516 <input type="checkbox"/> 6243084 <input type="checkbox"/> 6212375 <input type="checkbox"/> 6243003 <input type="checkbox"/> 6223973		_____ mS @ 25 °C		
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
<input type="checkbox"/> Dissolved Oxygen	ppm		HACH Model HQ30d	<input type="checkbox"/> 080700023281 <input type="checkbox"/> 100500041867 <input type="checkbox"/> 140200100319		100% Saturation		
<input type="checkbox"/> Particulate meter	mg/m ³					zero air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: **CMC**

DATE: **11/12/2018**



EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: **275 Franklin Street Site**

Project No.: **B0156-018-001**

Client: **Buffalo Development Corporation**

Date: **11/12/2018**

Instrument Source: BM Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
<input checked="" type="checkbox"/> pH meter	units	7:30	Myron L Company Ultra Meter 6P	<input type="checkbox"/> 6213516 <input type="checkbox"/> 6243084 <input checked="" type="checkbox"/> 6212375 <input type="checkbox"/> 6243003 <input type="checkbox"/> 6223973		4.00 7.00 10.01	4.00 7.03 10.00	
<input checked="" type="checkbox"/> Turbidity meter	NTU	7:30	Hach 2100P or 2100Q Turbidimeter	<input type="checkbox"/> 06120C020523 (P) <input checked="" type="checkbox"/> 13120C030432 (Q) <input type="checkbox"/> 17110C062619 (Q)		10 NTU verification < 0.4 20 100 800	L 19.8 102 807	
<input type="checkbox"/> Turbidity meter	NTU		LaMotte 2020	6523-1816 (La)		0.0 NTU 1.0 NTU 10.0 NTU		
<input type="checkbox"/> Sp. Cond. meter	uS mS		Myron L Company Ultra Meter 6P	<input type="checkbox"/> 6213516 <input type="checkbox"/> 6243084 <input type="checkbox"/> 6212375 <input type="checkbox"/> 6243003 <input type="checkbox"/> 6223973		_____ mS @ 25 °C		
<input type="checkbox"/> PID	ppm		MinRAE 2000			open air zero _____ ppm Iso. Gas		MIBK response factor = 1.0
<input checked="" type="checkbox"/> Dissolved Oxygen	ppm	7:30	HACH Model HQ30d	<input type="checkbox"/> 080700023281 <input type="checkbox"/> 100500041867 <input checked="" type="checkbox"/> 140200100319		100% Saturation		9.82 mg/L slope 95-5%
<input type="checkbox"/> Particulate meter	mg/m ³					zero air		
<input type="checkbox"/> Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: **CMC**

DATE: **11/12/2018**

Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

February 8, 2019

Lori Riker

Benchmark Environmental Engineering & Science, PLLC

2558 Hamburg Turnpike Suite 300

Buffalo, NY 14218

RE: Validation of the 275 Franklin Site Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Alpha Analytical SDG Nos. L1846321

Dear Ms. Riker:

Review has been completed for the data package generated by Alpha Analytical that pertains to aqueous samples collected 11/13/18 at the 275 Franklin Street site. Eleven aqueous samples were analyzed for Target Compound List (TCL) volatiles by USEPA SW846 method 8260C.

The data packages submitted contain full deliverables for validation, and this DUSR is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA national guidance documents, Region 2 validation SOP, the specific laboratory methodology, and professional judgment, as affect the usability of the data. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Method Blanks
- * Laboratory Control Samples (LCSs)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c) DUSR description. The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with project requirements.

In summary, most sample results are usable either as reported or with minor qualification/edit. However, the results for 1,4-dioxane are rejected due to limitations of the methodology.

Data completeness, sensitivity, reproducibility, and comparability are acceptable. Matrix spikes were not requested or performed, and therefore matrix accuracy and precision have not been evaluated.

Validation qualifier definitions and the client and laboratory sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also included in this report is the laboratory EQUIS EDD, qualified to reflect the qualifications recommended in this report.

TCL Volatile Analyses by USEPA Method 8260C

1,4-Dioxane results in the samples are rejected due to low responses inherent in the methodology. Other calibration standards show responses within the validation guidelines with the exception of that for bromomethane (52%D), results for which are qualified as estimated in the project samples.

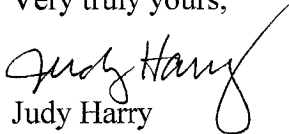
Detected results for PZ-5 and PZ-12 are qualified as estimated, with a high bias, due to elevated surrogate recoveries.

The holding time was met. Internal standard recoveries are within validation action guidelines. Matrix spikes were not processed. LCS recoveries are compliant.

Some of the samples were processed at dilution due to target analyte concentrations. This resulted in elevated reporting limits.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,


Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

Project Name: 275 FRANKLIN ST. SITE
Project Number: B0156-018-001

Lab Number: L1846321
Report Date: 11/19/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1846321-01	MW-5R	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:48	11/12/18
L1846321-02	PZ-4	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:00	11/12/18
L1846321-03	PZ-5	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 09:40	11/12/18
L1846321-04	PZ-6	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 09:00	11/12/18
L1846321-05	PZ-11	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:10	11/12/18
L1846321-06	PZ-12	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 10:45	11/12/18
L1846321-07	PZ-13	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 11:40	11/12/18
L1846321-08	PZ-14	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 11:15	11/12/18
L1846321-09	MW-24S	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 12:50	11/12/18
L1846321-10	MW-24D	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 12:25	11/12/18
L1846321-11	MW-23S	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 13:40	11/12/18
L1846321-12	TRIP BLANK	WATER	275 FRANKLIN ST., BUFFALO, NY	11/12/18 00:00	11/12/18



ANALYTICAL REPORT

Lab Number:	L1913888
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Lori Riker
Phone:	(716) 856-0599
Project Name:	275 FRANKLIN STREET SITE
Project Number:	B0156-018-001-002
Report Date:	04/12/19

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Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1913888-01	PZ-6	WATER	BUFFALO, NY	04/05/19 07:20	04/05/19
L1913888-02	PZ-4R	WATER	BUFFALO, NY	04/05/19 08:10	04/05/19
L1913888-03	PZ-13	WATER	BUFFALO, NY	04/05/19 08:40	04/05/19
L1913888-04	PZ-14	WATER	BUFFALO, NY	04/05/19 09:05	04/05/19
L1913888-05	PZ-12	WATER	BUFFALO, NY	04/05/19 09:45	04/05/19
L1913888-06	PZ-11	WATER	BUFFALO, NY	04/05/19 10:20	04/05/19
L1913888-07	PZ-5	WATER	BUFFALO, NY	04/05/19 10:45	04/05/19
L1913888-08	MW-24S	WATER	BUFFALO, NY	04/05/19 09:50	04/05/19
L1913888-09	MW-24D	WATER	BUFFALO, NY	04/05/19 10:52	04/05/19
L1913888-10	MW-5	WATER	BUFFALO, NY	04/05/19 08:15	04/05/19
L1913888-11	MW-23S	WATER	BUFFALO, NY	04/05/19 13:25	04/05/19
L1913888-12	TRIP BLANK	WATER	BUFFALO, NY	04/05/19 08:00	04/05/19

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

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: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1913888-08: Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

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

Authorized Signature:

 Amita Naik

Title: Technical Director/Representative

Date: 04/12/19

ORGANICS

VOLATILES

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-01
 Client ID: PZ-6
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 07:20
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/12/19 11:51
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.4	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	200		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	2.7		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-01

Date Collected: 04/05/19 07:20

Client ID: PZ-6

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.5	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.8	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-02 D

Date Collected: 04/05/19 08:10

Client ID: PZ-4R

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/12/19 10:10

Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1200		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	24		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-02 D
 Client ID: PZ-4R
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 08:10
 Date Received: 04/05/19
 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	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	38		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	19	J	ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	93		70-130

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-03 D

Date Collected: 04/05/19 08:40

Client ID: PZ-13

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/12/19 10:35

Analyst: BD

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	93		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	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	53		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	0.69	J	ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	1.8	J	ug/l	5.0	1.4	2
Trichloroethene	76		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-03 D
 Client ID: PZ-13
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 08:40
 Date Received: 04/05/19
 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	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	280		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	4.8	J	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	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-04 D
 Client ID: PZ-14
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 09:05
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/11/19 01:13
 Analyst: MKS

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	150		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	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	30		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	0.50	J	ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	4.2	J	ug/l	5.0	1.4	2
Trichloroethene	32		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-04 D
 Client ID: PZ-14
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 09:05
 Date Received: 04/05/19
 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	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	170		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	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-05 D
 Client ID: PZ-12
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 09:45
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/12/19 11:01
 Analyst: BD

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	9.0		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	250		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	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	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	0.91	J	ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-05 D

Date Collected: 04/05/19 09:45

Client ID: PZ-12

Date Received: 04/05/19

Sample Location: BUFFALO, NY

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	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	3.2	J	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	6.6	J	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	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	93		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-06 D
 Client ID: PZ-11
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 10:20
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/11/19 02:03
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	100	28.	40
1,1-Dichloroethane	ND		ug/l	100	28.	40
Chloroform	ND		ug/l	100	28.	40
Carbon tetrachloride	ND		ug/l	20	5.4	40
1,2-Dichloropropane	ND		ug/l	40	5.5	40
Dibromochloromethane	ND		ug/l	20	6.0	40
1,1,2-Trichloroethane	ND		ug/l	60	20.	40
Tetrachloroethene	4100		ug/l	20	7.2	40
Chlorobenzene	ND		ug/l	100	28.	40
Trichlorofluoromethane	ND		ug/l	100	28.	40
1,2-Dichloroethane	ND		ug/l	20	5.3	40
1,1,1-Trichloroethane	ND		ug/l	100	28.	40
Bromodichloromethane	ND		ug/l	20	7.7	40
trans-1,3-Dichloropropene	ND		ug/l	20	6.6	40
cis-1,3-Dichloropropene	ND		ug/l	20	5.8	40
Bromoform	ND		ug/l	80	26.	40
1,1,2,2-Tetrachloroethane	ND		ug/l	20	6.7	40
Benzene	ND		ug/l	20	6.4	40
Toluene	ND		ug/l	100	28.	40
Ethylbenzene	ND		ug/l	100	28.	40
Chloromethane	ND		ug/l	100	28.	40
Bromomethane	ND		ug/l	100	28.	40
Vinyl chloride	ND		ug/l	40	2.8	40
Chloroethane	ND		ug/l	100	28.	40
1,1-Dichloroethene	ND		ug/l	20	6.8	40
trans-1,2-Dichloroethene	ND		ug/l	100	28.	40
Trichloroethene	21		ug/l	20	7.0	40
1,2-Dichlorobenzene	ND		ug/l	100	28.	40

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-06 D
 Client ID: PZ-11
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 10:20
 Date Received: 04/05/19
 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	100	28.	40
1,4-Dichlorobenzene	ND		ug/l	100	28.	40
Methyl tert butyl ether	ND		ug/l	100	28.	40
p/m-Xylene	ND		ug/l	100	28.	40
o-Xylene	ND		ug/l	100	28.	40
cis-1,2-Dichloroethene	ND		ug/l	100	28.	40
Styrene	ND		ug/l	100	28.	40
Dichlorodifluoromethane	ND		ug/l	200	40.	40
Acetone	ND		ug/l	200	58.	40
Carbon disulfide	ND		ug/l	200	40.	40
2-Butanone	ND		ug/l	200	78.	40
4-Methyl-2-pentanone	ND		ug/l	200	40.	40
2-Hexanone	ND		ug/l	200	40.	40
Bromochloromethane	ND		ug/l	100	28.	40
1,2-Dibromoethane	ND		ug/l	80	26.	40
1,2-Dibromo-3-chloropropane	ND		ug/l	100	28.	40
Isopropylbenzene	ND		ug/l	100	28.	40
1,2,3-Trichlorobenzene	ND		ug/l	100	28.	40
1,2,4-Trichlorobenzene	ND		ug/l	100	28.	40
Methyl Acetate	ND		ug/l	80	9.4	40
Cyclohexane	ND		ug/l	400	11.	40
1,4-Dioxane	ND		ug/l	10000	2400	40
Freon-113	ND		ug/l	100	28.	40
Methyl cyclohexane	ND		ug/l	400	16.	40

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

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-07 D

Date Collected: 04/05/19 10:45

Client ID: PZ-5

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/11/19 13:09

Analyst: PK

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	6.5		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	160		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	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	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	0.62	J	ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-07 D
 Client ID: PZ-5
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 10:45
 Date Received: 04/05/19
 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	ND		ug/l	5.0	1.4	2
o-Xylene	ND		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	4.9	J	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	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
1,4-Dioxane	ND		ug/l	500	120	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-08 D2
 Client ID: MW-24S
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 09:50
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/12/19 09:45
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	890		ug/l	12	4.5	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-08 D

Date Collected: 04/05/19 09:50

Client ID: MW-24S

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/11/19 02:28

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	25		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	2300	E	ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	29		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-08 D

Date Collected: 04/05/19 09:50

Client ID: MW-24S

Date Received: 04/05/19

Sample Location: BUFFALO, NY

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	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	66		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
Methyl Acetate	ND		ug/l	20	2.3	10
Cyclohexane	ND		ug/l	100	2.7	10
1,4-Dioxane	ND		ug/l	2500	610	10
Freon-113	ND		ug/l	25	7.0	10
Methyl cyclohexane	ND		ug/l	100	4.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-09 D

Date Collected: 04/05/19 10:52

Client ID: MW-24D

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/11/19 02:53

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	480		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	ND		ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	ND		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	ND		ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5
Trichloroethene	130		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	ND		ug/l	12	3.5	5

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-09 D

Date Collected: 04/05/19 10:52

Client ID: MW-24D

Date Received: 04/05/19

Sample Location: BUFFALO, NY

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	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	290		ug/l	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
Methyl Acetate	ND		ug/l	10	1.2	5
Cyclohexane	ND		ug/l	50	1.4	5
1,4-Dioxane	ND		ug/l	1200	300	5
Freon-113	ND		ug/l	12	3.5	5
Methyl cyclohexane	ND		ug/l	50	2.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-10 D
 Client ID: MW-5
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 08:15
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/11/19 03:18
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	1900		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	300		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-10 D
 Client ID: MW-5
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 08:15
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	270		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	1200	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-11 D

Date Collected: 04/05/19 13:25

Client ID: MW-23S

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 04/12/19 11:26

Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	2.1	J	ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	310		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Trichloroethene	1.1	J	ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-11 D

Date Collected: 04/05/19 13:25

Client ID: MW-23S

Date Received: 04/05/19

Sample Location: BUFFALO, NY

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	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	6.9	J	ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl Acetate	ND		ug/l	5.0	0.58	2.5
Cyclohexane	ND		ug/l	25	0.68	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
Freon-113	ND		ug/l	6.2	1.8	2.5
Methyl cyclohexane	ND		ug/l	25	0.99	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	94		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

SAMPLE RESULTS

Lab ID: L1913888-12
 Client ID: TRIP BLANK
 Sample Location: BUFFALO, NY

Date Collected: 04/05/19 08:00
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 04/11/19 12:39
 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: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**SAMPLE RESULTS**

Lab ID: L1913888-12

Date Collected: 04/05/19 08:00

Client ID: TRIP BLANK

Date Received: 04/05/19

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 04/10/19 19:20
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06,08-10 Batch: WG1225434-5					
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: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/10/19 19:20
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06,08-10 Batch: WG1225434-5					
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: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/10/19 19:20
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06,08-10 Batch: WG1225434-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 04/11/19 10:11
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07,12 Batch: WG1225471-5					
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: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/11/19 10:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07,12 Batch: WG1225471-5					
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: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 04/11/19 10:11
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07,12 Batch: WG1225471-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/19 08:54
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05,08,11 Batch: WG1225843-5					
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: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/12/19 08:54
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05,08,11 Batch: WG1225843-5					
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: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 04/12/19 08:54
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05,08,11 Batch: WG1225843-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06,08-10 Batch: WG1225434-3 WG1225434-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	94		95		63-130	1		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		110		75-130	10		20
Trichlorofluoromethane	98		99		62-150	1		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	94		96		70-130	2		20
cis-1,3-Dichloropropene	93		95		70-130	2		20
Bromoform	97		99		54-136	2		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		110		70-130	10		20
Toluene	110		110		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	83		84		64-130	1		20
Bromomethane	45		51		39-139	13		20
Vinyl chloride	75		75		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06,08-10 Batch: WG1225434-3 WG1225434-4								
Chloroethane	80		82		55-138	2		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		110		70-130	10		20
1,4-Dichlorobenzene	100		110		70-130	10		20
Methyl tert butyl ether	94		97		63-130	3		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	87		89		36-147	2		20
Acetone	100		100		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	97		110		63-138	13		20
4-Methyl-2-pentanone	84		86		59-130	2		20
2-Hexanone	78		81		57-130	4		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	97		97		41-144	0		20
Isopropylbenzene	100		110		70-130	10		20
1,2,3-Trichlorobenzene	85		90		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Project Number: B0156-018-001-002

Lab Number: L1913888

Report Date: 04/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06,08-10 Batch: WG1225434-3 WG1225434-4								
1,2,4-Trichlorobenzene	89		94		70-130	5		20
Methyl Acetate	110		100		70-130	10		20
Cyclohexane	98		100		70-130	2		20
1,4-Dioxane	86		86		56-162	0		20
Freon-113	99		100		70-130	1		20
Methyl cyclohexane	99		100		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		98		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	101		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,12 Batch: WG1225471-3 WG1225471-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	100		99		63-132	1		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	110		110		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	95		94		62-150	1		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	97		98		70-130	1		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
Bromoform	110		110		54-136	0		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	99		99		70-130	0		20
Chloromethane	81		80		64-130	1		20
Bromomethane	49		46		39-139	6		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,12 Batch: WG1225471-3 WG1225471-4								
Chloroethane	100		100		55-138	0		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	97		100		70-130	3		20
1,3-Dichlorobenzene	96		97		70-130	1		20
1,4-Dichlorobenzene	95		97		70-130	2		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	130		130		36-147	0		20
Acetone	110		110		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	75		71		63-138	5		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	91		91		57-130	0		20
Bromochloromethane	120		120		70-130	0		20
1,2-Dibromoethane	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20
Isopropylbenzene	97		96		70-130	1		20
1,2,3-Trichlorobenzene	98		100		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,12 Batch: WG1225471-3 WG1225471-4								
1,2,4-Trichlorobenzene	98		100		70-130	2		20
Methyl Acetate	85		80		70-130	6		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	130		120		56-162	8		20
Freon-113	98		96		70-130	2		20
Methyl cyclohexane	100		96		70-130	4		20

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05,08,11 Batch: WG1225843-3 WG1225843-4								
Methylene chloride	99		99		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	92		92		63-130	0		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	93		88		62-150	6		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	94		91		64-130	3		20
Bromomethane	58		57		39-139	2		20
Vinyl chloride	78		76		55-140	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Lab Number: L1913888

Project Number: B0156-018-001-002

Report Date: 04/12/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05,08,11 Batch: WG1225843-3 WG1225843-4								
Chloroethane	95		93		55-138	2		20
1,1-Dichloroethene	99		96		61-145	3		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		98		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	100		100		70-130	0		20
Methyl tert butyl ether	98		100		63-130	2		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	85		81		36-147	5		20
Acetone	120		130		58-148	8		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	100		110		63-138	10		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	93		100		57-130	7		20
Bromochloromethane	94		95		70-130	1		20
1,2-Dibromoethane	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	94		98		41-144	4		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	88		98		70-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 275 FRANKLIN STREET SITE

Project Number: B0156-018-001-002

Lab Number: L1913888

Report Date: 04/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05,08,11 Batch: WG1225843-3 WG1225843-4								
1,2,4-Trichlorobenzene	97		100		70-130	3		20
Methyl Acetate	100		100		70-130	0		20
Cyclohexane	120		110		70-130	9		20
1,4-Dioxane	82		98		56-162	18		20
Freon-113	95		92		70-130	3		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		107		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	107		108		70-130
Dibromofluoromethane	95		95		70-130

Project Name: 275 FRANKLIN STREET SITE**Lab Number:** L1913888**Project Number:** B0156-018-001-002**Report Date:** 04/12/19**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(*)
L1913888-01A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-01B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-01C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-02A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-02B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-02C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-03A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-03B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-03C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-04A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-04B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-04C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-05A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-05B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-05C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-06A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-06B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-06C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-07A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-07B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-08A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-08B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-08C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Serial_No:04121912:56
Lab Number: L1913888
Report Date: 04/12/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1913888-09A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-09B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-09C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-10A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-10B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-10C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-11A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-11B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-11C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-12A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)
L1913888-12B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260-R2(14)

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

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: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

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

Terms

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

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

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

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

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

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

Data Qualifiers

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

Report Format: DU Report with 'J' Qualifiers



Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

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), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY 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 2	Date Rec'd in Lab 4-5-19	ALPHA Job # L1913888																																				
		Project Information Project Name: 275 Franklin Street Site Project Location: Buffalo NY Project # B0156-018-001-002 (Use Project name as Project #) <input type="checkbox"/>	Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input type="checkbox"/> Same as Client Info PO #																																					
Client Information Client: Benchmark Environmental Address: 2558 Hamburg Turnpike Buffalo NY 14212 Phone: 761-256-0599 Fax: Email: lriker@benchmarkees.com	Project Manager: Carly Fox ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																						
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <p style="text-align: center; font-size: 24px; color: blue;">CAT B</p>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)																																					
Please specify Metals or TAL.		Total Bottles																																							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials																																				
		Date	Time																																						
13888-01	PZ-6	4/5/19	7:20	Water	CCB	X																																			
	02		8:10		CCB	X																																			
	03		8:40		CCB	X																																			
	04		9:05		CCB	X																																			
	05		9:45		CCB	X																																			
	06		10:20		CCB	X																																			
	07		10:45		CCB	X																																			
	08		9:50		CMC	X																																			
	09		10:52		CMC	X																																			
	10		8:15		CMC	X																																			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <input checked="" type="checkbox"/> V Preservative <input checked="" type="checkbox"/> B																																			
		Relinquished By:		Date/Time		Received By:		Date/Time																																	
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 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2 of 2	Date Rec'd in Lab 4-5-19	ALPHA Job # L1913888																		
		Project Information Project Name: 275 Franklin St. Site Project Location: Buffalo NY Project # B0156-019-001-002 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #																	
Client Information Client: Benchmark Environmental Address: 2558 Hamburg Turnpike Buffalo NY 14218 Phone: 716-856-6599 Fax: Email: lriker@benchmarkees.com		Project Manager: Candy Fox ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																	
These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS			Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)																	
Other project specific requirements/comments: cat B						Total Bottles																	
Please specify Metals or TAL.																							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials																		
		Date	Time																				
13888- 11	MW-23S	4/5/19	13:25	water	CMC	X																	
12	Trip Blank	4/5/19	8:00	water	CMC	X																	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type V Preservative B		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)															
		Relinquished By:		Date/Time		Received By:		Date/Time															
		Charlotte Clark		4/5/19 15:00		AAL		4/5/19 16:30															
		AAL		4/5/19 17:15																			

Project Name: 275 Franklin Street Site

Date: 4/5/2019

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC/CCB

Well No. PZ-4R		Diameter (inches): 1"		Sample Date / Time: 4/5/19 810					
Product Depth (fbTOR): —		Water Column (ft): 3.28		DTW when sampled: 10.96					
DTW (static) (fbTOR): 10.96		One Well Volume (gal): 0.13		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): 14.24		Total Volume Purged (gal): 1.25		Purge Method: parasaltic					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
758	0 Initial	0	7.26	7.0	5570	154	10.89	207	Clear/No odor
800	1 —	0.5	7.27	7.8	5643	83.6	11.46	202	" "
803	2 —	0.25	7.30	7.9	5459	238	11.32	198	" "
	3					620			
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
810	S1 —	1.0	7.32	7.9	5409	620	11.28	196	" "
813	S2 —	1.25	7.36	7.9	5371	493	11.16	192	" "

Well No. PZ-5		Diameter (inches): 1"		Sample Date / Time: 4/5/19 1045					
Product Depth (fbTOR): —		Water Column (ft): 4.35		DTW when sampled: 10.76					
DTW (static) (fbTOR): 10.80		One Well Volume (gal): 0.178		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): 15.15		Total Volume Purged (gal): 1.50		Purge Method: parasaltic					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1033	0 Initial	0	7.68	10.8	2446	121	7.01	88	Clear/No odor
1035	1 —	0.25	7.68	10.8	2247	8.06	7.21	88	" "
1038	2 —	0.50	7.63	11.1	2248	5.61	7.15	90	" "
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1045	S1 —	1.25	7.61	11.1	2299	4.32	7.18	91	" "
1048	S2 10.76	1.50	7.61	11.0	2273	3.10	7.39	93	" "

REMARKS: PZ-5 - only two vials submitted 3rd one broke.

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

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 4/5/2019

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC/CCB

Well No. PZ-6		Diameter (inches): 1"				Sample Date / Time: 4/5/19 7:20			
Product Depth (fbTOR): ---		Water Column (ft): 4.24				DTW when sampled: 10.78			
DTW (static) (fbTOR): 10.78		One Well Volume (gal): 0.17				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 15.02		Total Volume Purged (gal): 1.0				Purge Method: PARASTATIC			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
709	0 Initial	0	6.51	8.5	3017	72.2	8.54	249	No odor / slight hilly
711	1	0.2	6.68	10.4	3233	33.6	7.73	242	no odor / hilly
713	2	0.5	6.78	11.1	3198	17.5	7.80	235	" "
715	3	0.60	6.88	11.1	3231	16.5	7.77	231	" "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
720	S1	0.75	6.92	11.3	3293	7.03	7.66	228	" "
724	S2	1.0	7.01	11.1	3266	38.3	7.61	229	" "

Well No. PZ-11		Diameter (inches): 1"				Sample Date / Time: 4/5/19 1020			
Product Depth (fbTOR): ---		Water Column (ft): 4.73				DTW when sampled: 10.29			
DTW (static) (fbTOR): 10.29		One Well Volume (gal): 0.19				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 15.02		Total Volume Purged (gal): 1.0				Purge Method: PARASTATIC			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1005	0 Initial	0	7.51	9.5	3402	573	6.17	88	hilly / no odor
1009	1	0.25	7.50	9.8	3301	46.2	6.00	83	hilly / no odor
1011	2	0.50	7.53	9.8	3328	449	5.82	83	" "
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1020	S1	0.75	7.51	9.8	3331	1.91	5.85	83	" "
1025	S2	1.0	7.53	9.7	3358	1.27	5.97	84	" "

REMARKS:

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

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 4/5/2019

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC/CCB

Well No.		PZ-12		Diameter (inches): 1"		Sample Date / Time: 4/5/19 945			
Product Depth (fbTOR):		—		Water Column (ft): 4.93		DTW when sampled: 10.40			
DTW (static) (fbTOR):		10.27		One Well Volume (gal): 0.20		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR):		15.2		Total Volume Purged (gal): 1.0		Purge Method: Peristaltic			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
930	0 Initial	0	7.71	9.6	1735	70.8	7.78	9	Clear/neutral
933	1 0.25 →		7.73	9.8	1802	6.69	7.41	29	" "
936	2 0.5 →		7.74	9.9	1852	1.72	7.04	38	" "
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
945	S1 —	0.75	7.70	10.2	1873	0.95	7.01	45	" "
948	S2 10.40	1.0	7.72	9.9	1930	0.95	6.99	60	" "

Well No.		PZ-13		Diameter (inches): 1"		Sample Date / Time: 4/5/19 840			
Product Depth (fbTOR):		—		Water Column (ft): 2.42		DTW when sampled: 10.47			
DTW (static) (fbTOR):		10.56		One Well Volume (gal): 0.09		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR):		12.98		Total Volume Purged (gal): 1.25		Purge Method: Peristaltic			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
828	0 Initial	0	7.49	8.8	3183	71000	3.06	106	turbid/ no odor
830	1 —	0.25	7.22	10.0	4092	71000	2.72	33	" "
833	2 —	0.5	7.16	10.3	4260	131	2.78	18	Clear/neutral
836	3 —	0.75	7.16	10.3	4269	36.9	2.50	20	" "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
840	S1 —	1.0	7.15	10.4	4253	20.4	2.50	-7	" "
843	S2 10.47	1.25	7.16	10.4	4265	28.4	2.52	-11	" "

REMARKS:

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 4/5/2019

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC/CCB

Well No. PZ-14		Diameter (inches): 1"				Sample Date / Time: 4/5/19 905			
Product Depth (fbTOR): —		Water Column (ft): 4.91				DTW when sampled: 10.10			
DTW (static) (fbTOR): 10.12		One Well Volume (gal): 0.20				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 15.03		Total Volume Purged (gal): 1.25				Purge Method: Para static			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
852	0 Initial	0	7.40	8.6	2467	7000	1.32	-12	brown turbid / hooded
855	1	0.25	7.44	9.4	2222	464	2.23	-24	clear / no odor
857	2	0.5	7.52	9.7	2102	17.3	2.25	-34	" "
900	3	0.75	7.49	9.9	2133	4.21	2.38	-56	" "
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
905	S1	1.0	7.48	10.0	2196	8.87	2.01	-52	" "
908	S2	1.25	7.50	9.7	2112	9.45	2.25	-36	" "

10.0

Well No. PZ-5		Diameter (inches): 1"				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft):				DTW when sampled:			
DTW (static) (fbTOR):		One Well Volume (gal):				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> 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								

Stabilization Criteria

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

Volume Calculation

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

REMARKS:

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 4/5/2019

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC/CCB

Well No. PZ-14		Diameter (inches): 1"				Sample Date / Time:			
Product Depth (fbTOR):		Water Column (ft):				DTW when sampled:			
DTW (static) (fbTOR):		One Well Volume (gal):				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> 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-5R		Diameter (inches): 2"				Sample Date / Time: 4/5/19 8:15			
Product Depth (fbTOR):		Water Column (ft): 7.45				DTW when sampled: 11.46			
DTW (static) (fbTOR): 11.38		One Well Volume (gal): 1.2				Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 18.83		Total Volume Purged (gal): 3.6				Purge Method: submersible pump			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
8:00	0	0	6.91	9.8	6751	97.7	4.07	122	
8:05	11.46	1.2	7.04	10.10	6330	44.6	3.14	77	
8:10	11.46	2.4	7.07	10.9	6175	21.4	2.05	51	
8:14	11.46	3.6	7.10	10.8	6110	15.1	2.9	37	
8:15									
5									
6									
7									
8									
9									
10									
Sample Information:									
S1									
8:20	11.43	4.0	7.12	10.3	5945	0.08	2.58	22	

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:

Project Name: 275 Franklin Street Site
Location: 275 Franklin Street

Date: 4/5/2019
Field Team: CMC/CCB

Project No.: B0156-018-001

Well No. MW-23S			Diameter (inches): 2"			Sample Date / Time: 4/5/19 1325			
Product Depth (fbTOR): -			Water Column (ft): 7.32			DTW when sampled: 11.35			
DTW (static) (fbTOR): 11.25			One Well Volume (gal): 1.19			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample			
Total Depth (fbTOR): 18.57			Total Volume Purged (gal): 4.0			Purge Method: low flow			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1310	0 Initial	0	7.37	9.0	3281	26.4	0.95	28	Clear/neutral
1314	1 11.52	1.0	7.30	9.4	3318	64.9	1.20	29	" "
1316	2 11.49	1.5	7.29	9.4	3468	28.1	1.10	30	" "
1319	3 11.41	2.0	7.30	9.4	3512	16.0	1.01	33	" "
1321	4 11.41	2.5	7.31	9.4	3534	11.2	1.10	35	" "
5									
6									
7									
8									
9									
10									
Sample Information:									
1325	S1 11.35	3.0	7.29	9.4	3571	7.99	1.86	36	" "
1329	S2 11.35	4.0	7.27	9.4	3632	5.96	1.43	39	" "

Well No.			Diameter (inches):			Sample Date / Time:			
Product Depth (fbTOR):			Water Column (ft):			DTW when sampled:			
DTW (static) (fbTOR):			One Well Volume (gal):			Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> 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:

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

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

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

PREPARED BY:

Project Name: 275 Franklin Street Site

Date: 4/5/2019

Location: 275 Franklin Street

Project No.: B0156-018-001

Field Team: CMC/CCB

Well No. MW-24S		Diameter (inches): 2"		Sample Date / Time: 4/5/19 9:50					
Product Depth (fbTOR):		Water Column (ft): 3.24		DTW when sampled:					
DTW (static) (fbTOR): 10.37		One Well Volume (gal): 1.34		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): 18.61		Total Volume Purged (gal): 4.5		Purge Method: Bailers					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9:20	0 Initial	0	7.79	9.0	1478	6.38	3.53	13	Clear
9:31	1 10.39	1.3	7.71	10.2	1543	969	2.76	36	cloudy
9:40	2 10.39	2.6	7.71	10.2	1491	870	2.30	50	cloudy
9:45	3 10.39	3.5	7.68	10.1	1673	>1000	2.53	59	cloudy
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
9:58	S1 10.4	4.0	7.72	9.8	1554	766	2.31	66	
10:00	S2 10.4	4.5	7.71	10.3	1605	504		67	

Well No. MW-24D		Diameter (inches): 2"		Sample Date / Time: 4/5/19 10:52					
Product Depth (fbTOR):		Water Column (ft): 35.94		DTW when sampled:					
DTW (static) (fbTOR): 11.13		One Well Volume (gal): 5.85		Purpose: <input type="checkbox"/> Development <input type="checkbox"/> Sample <input checked="" type="checkbox"/> Purge & Sample					
Total Depth (fbTOR): 47.07		Total Volume Purged (gal): 8.0		Purge Method: Submersible pump					
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:15	0 Initial	0	7.17	10.3	2469	285	1.59	-42	cloudy
10:20	1 11.22	1.2	7.24	11.2	2458	50.9	1.39	-65	
10:30	2 11.22	2.5	7.23	11.3	2455	8.06	2.09	-76	clear
10:45	3 11.21	5.0	7.23	11.5	2452	10.5	1.70	-81	
4									
5									
6									
7									
8									
9									
10									
Sample Information:									
10:52	S1 11.22	7.0	7.23	11.9	2451	4.47	1.6	-88	" "
10:56	S2 11.1	8.0	7.22	11.3	2450	1.92	1.68	-88	" "

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:

Data Validation Services

120 Cobble Creek Road P.O. Box 208

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Phone 518-251-4429

harry@frontiernet.net

May 17, 2019

Charlotte Clark
Benchmark Environmental Engineering and Science
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the 275 Franklin Street Groundwater Analytical Data Packages
Data Usability Summary Report (DUSR)
Alpha Analytical SDG No. L1913888

Dear Ms. Clark:

Review has been completed for the data package generated by Alpha Analytical that pertains to aqueous samples collected between 04/05/19 at the 275 Franklin Street site. Eleven samples and a trip blank were processed for TCL volatiles by USEPA SW846 method 8260C.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Method Blanks
- * Laboratory Control Sample (LCS)
- * Instrumental Tunes
- * Initial and Continuing Calibration Standards
- * Method Compliance
- * Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B Section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, most results for the samples are usable either as reported or with minor qualification. However, the results for 1,4-dioxane are not usable due to low responses inherent in the methodology.

Data completeness, representativeness, reproducibility, sensitivity, and comparability are acceptable. Accuracy and precision evaluations are limited to laboratory parameters, as sample matrix spikes and A field duplicate were not processed. The accuracy and precision of the laboratory controls are acceptable. Matrix effects on accuracy and precision have not been evaluated.

Copies of the client sample identifications are attached to this text. Also included in this report are laboratory EQuIS EDDs with recommended qualifiers/edits applied in red.

TCL Volatile Analyses by EPA 8260C

The results for 1,4-dioxane are rejected in the samples and trip blank due to poor instrument response. Other calibration standards showed acceptable responses, with the exception of those for bromomethane and vinyl chloride (55%D and 25%D) in the calibration associated with PZ-11, PZ-14, MW-24S, MW-24D, and MW-5. The results for those two compounds in those five samples are qualified as estimated in value.

Holding times were met. Surrogate and internal standard recoveries are compliant. Blanks show no contamination. LCS recoveries are within validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Attachments: Validation Qualifier Definitions
 Sample Identifications
 Qualified Laboratory EQuIS EDD

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- J-** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+** The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
- UJ** The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

Project Name: 275 FRANKLIN STREET SITE
Project Number: B0156-018-001-002

Lab Number: L1913888
Report Date: 04/12/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1913888-01	PZ-6	WATER	BUFFALO, NY	04/05/19 07:20	04/05/19
L1913888-02	PZ-4R	WATER	BUFFALO, NY	04/05/19 08:10	04/05/19
L1913888-03	PZ-13	WATER	BUFFALO, NY	04/05/19 08:40	04/05/19
L1913888-04	PZ-14	WATER	BUFFALO, NY	04/05/19 09:05	04/05/19
L1913888-05	PZ-12	WATER	BUFFALO, NY	04/05/19 09:45	04/05/19
L1913888-06	PZ-11	WATER	BUFFALO, NY	04/05/19 10:20	04/05/19
L1913888-07	PZ-5	WATER	BUFFALO, NY	04/05/19 10:45	04/05/19
L1913888-08	MW-24S	WATER	BUFFALO, NY	04/05/19 09:50	04/05/19
L1913888-09	MW-24D	WATER	BUFFALO, NY	04/05/19 10:52	04/05/19
L1913888-10	MW-5	WATER	BUFFALO, NY	04/05/19 08:15	04/05/19
L1913888-11	MW-23S	WATER	BUFFALO, NY	04/05/19 13:25	04/05/19
L1913888-12	TRIP BLANK	WATER	BUFFALO, NY	04/05/19 08:00	04/05/19

APPENDIX D

DISPOSAL DOCUMENTS



GENERATOR APPROVAL NOTIFICATION

Customer: DISPOSAL CONNECTIONS INC

March 21, 2019

ENVIRONMENTAL MANAGER
BUFFALO DEVELOPMENT CORPORATION
257 FRANKLIN STREET
BUFFALO, NY 14202

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the noted EQ facility(s) identified below and ensures that each facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s).

The Approval(s) listed below are based upon characterization information supplied to EQ by the Customer and the Generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the Generator. The Customer must notify EQ immediately upon knowledge of any changes to this information. The Approval and all wastes which are transported, delivered, or tendered to EQ under this Approval shall be subject to the Standard Terms and Conditions associated with the original Waste Profile Form. (The Standard Terms and Conditions are incorporated into the Waste Profile Form as Page 4.)

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from EQ on future business will be valid for a period of one (1) year from the date of issuance. Within 60 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

Generator: BUFFALO DEVELOPMENT CORPORATION

EPA ID No.: NYD981076581

Waste Common Name: IDW Waste

Waste Code(s): F002

Comments: Must Meet 10x

Approval No.: C190039WDI

Expiration Date: 03/10/2020

EQ Facility Name & ID Number: Wayne Disposal, Inc. (MID048090633)



WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: IDW Waste

Section 1 - Generator & Customer Information

Generator EPA ID # NYD-981-076-581
 Generator Buffalo Development Corporation
 Facility Address 275 Franklin Street
 City Buffalo State NY Zip 14202
 24-hour Emergency Response Number () -
 Mailing Address 257 Franklin Street
 City Buffalo State NY Zip 14202
 Generator Contact Mark Croce
 Title _____
 Phone (716) 842-6800 Fax () -
 E-mail n/a

Internal Use Only: EQ Division _____
 EQ Customer No. 18081
 Invoicing Company DISPOSAL CONNECTIONS INC
 Address 6569 HEATHER DRIVE
 City LOCKPORT State NY Zip 14094-1152
 Country USA
 Invoicing Contact David Passuite
 Phone (716) 471-8914 Fax () -
 Technical Contact David Passuite
 Phone (716) 471-8914 Fax () -
 Cell Phone () -
 E-mail dpassuite@verizon.net

Section 2 - Shipping & Packaging Information

2.1) Shipping Volume & Frequency:
 a) Volume of Waste to be Shipped: 4 DM55
 b) Frequency: One Time Month Quarter Year Other _____
 2.2) DOT Information
 a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? Yes No
 b) If "Yes", indicate the proper shipping name per 49 CFR 172.101 Hazardous Materials Table:
RQ, NA3077, Hazardous Waste, Solid, n.o.s., 9, PGIII, (F002), ERG#171

Section 3 - Special Properties

3.1) Color VARIES
 3.2) Odor None Ammonia Amines Mercaptans Sulfur Organic Acid Amines/Ammonia
 Other: Slight solvent
 3.3) Consistency at 70 °F: Solid Dust/Powder Debris Sludge Liquid Gas/Aerosol Varies
 3.4) What is the pH? ≤2 2.1-4.9 5-10 10.1-12.4 ≥12.5 N/A
 3.5) What is the flash point? <90 °F 90-139 °F 140-199 °F ≥200 °F N/A
 3.6) Does this waste exhibit any of the following properties? (check all that apply)
 None Free Liquids Metal Fines Water Reactive Biohazard
 Shock Sensitive Oily Residue Dioxins Furans Aluminum
 Asbestos -non- friable Asbestos - friable Other Radioactive Air Reactive Isocyanates
 Biodegradable Sorbents Pyrophoric Reactive Sulfide Reactive Cyanide Explosives
 Temperature Controlled Organic Peroxide NORM TENORM

Section 4 - Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges or the concentration of each component, either estimated or known.

Soil	90. to	95. %
Gravel	5. to	10. %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*
Spoils generated during site subsurface investigations. Analysis attached.

4.3) Are there any known previous handling or treatment issues involving this waste? Yes* No
*If yes, describe: _____

Section 5 - Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules:

Please list applicable waste code(s):

5.1) Is this waste exempted from RCRA? Yes No
If Yes, please provide exemption: _____

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? Yes No F002

a) For F006-F009, F012, does this come from a generator that conducts a cyanide plating process? Yes No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? Yes No

5.4) Do any State Specific Hazardous Waste Codes apply? Yes No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: G19 EPA Form Code: W301

5.6) Waste Code Determination Is Based On: Generator Knowledge Analysis MSDS

Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? Yes No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? WW NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? Yes No

c) Does this waste contain greater than 50% debris, by volume? Yes No
(Debris is greater than 2.5 inches in size.)

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? Yes* No
*If Yes, please list: _____

For a complete list of UHC constituents, please refer to 40 CFR 268.48

Section 6 - Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? Yes No

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG) ? UNIV RG N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? Yes No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? Yes No

b) If yes, what is the source of the halogen content?

This is a metalworking oil/fluid containing chlorinated paraffins.

This is a used oil contaminated with chlorofluorocarbons from refrigeration units.

This oil contains halogenated solvents. List specific solvents: _____

Other, describe: _____

Section 7 - TSCA Information

- 7.1) What is the concentration of PCBs in the waste? None 0-49 ppm 50-499 ppm 500+ ppm
- 7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? Yes No Unknown
- If you answered "none" or '0-49 ppm' to 7.1 and "no" to 7.2, please proceed to Section 8.**
- 7.3) Has this waste been processed into a non-liquid form? Yes* No
 *If yes, what was the concentration of PCBs prior to processing? 0-499 ppm 500+ ppm
- 7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? Yes No
- 7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? Yes No
- 7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? Yes No N/A

Section 8 - Clean Air Act Information

- 8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? Yes No
- 8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? Yes No
- 8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? Yes* No
- *If Yes this document serves as notification that this waste contains chemicals required to be managed in accordance with Part 61 62 63 Subpart _____ of NESHAP/MACT standards.
- 8.4) Does this waste stream contain Benzene? Yes No
- If you answered "no" to 8.4, please proceed to Section 9.**
- 8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)? Yes No
 If Yes, please provide the SIC/NAICS code: _____
- If you answered "no" to 8.5, please proceed to Section 9.**
- 8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site? Yes No
 If Yes, please specify: _____
- 8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? Yes No
- 8.8) Does the waste contain >10% water? Yes No
- 8.9) What is the TAB quantity for your facility? _____ Mg/year
- 8.10) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Generator Signature: Lori Riker as agent for Buffalo Development Corporation Printed Name Lori Riker

Company Benchmark Environmental Engineering & Science Title Sr. Project Manager Date 3/8/19

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Bulk Disposal Charges

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 1 OF 1

Project Information

Project Name: 275 Franklin Street Site

Project Location: 275 Franklin Street

Project #: B0156-018-001

Project Manager: Candace Fox

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: Benchmark Env. Engineering

Address: 2558 Hamburg Turnpike, Suite 300

Buffalo, NY 14218

Phone: (716) 856-0599

Fax: Standard Rush (ONLY IF PRE-APPROVED)

Email: Lriker@benchmarkees.com

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 11/13/18

ALPHA Job #: L189627

Report Information Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ANALYSIS

TCL VOCs	TCLP VOCs	TCL SVOCs	TCLP SVOCs	Alcohols (8015)	RCRA TCLP Metals												
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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SAMPLE HANDLING
 Filtration
 Done
 Not Needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
16327-01	Post COC WC-1	11-12-18	15:15	soil	CMC
02	Post COC WC-2	11-12-18	15:20	soil	CMC

Container Type	A	A	A	A	A	A	-	-	-	-	-	-
Preservative	A	A	A	A	A	A	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Charlotte Clark</i>	11/12/18 16:00	<i>Jm A AAL</i>	11/12/18 16:15
<i>Jm A AAL</i>	11/12/18 16:45	<i>[Signature]</i>	11/13/18 01:04

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 Payment Terms.