89 LaSalle Avenue Site

ERIE, NEW YORK

Periodic Review Report

NYSDEC Site Number: C915283

Prepared for:
Legacy LaSalle LLC
89 LaSalle Avenue Site
Cheektowaga, New York 14225

Prepared by:
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APRIL 2018

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1.0 SITE OVERVIEW

1.1 Site Location & Description

The site, comprised of three (3) separate parcels, is addressed at 67 LaSalle Ave, 89 LaSalle Ave, and portions of 71 NY L&W RR (71 Cordova Ave.), and located in the City of Buffalo, County of Erie, New York and is identified as Section 79.7, Block 2 and Lots 1.1, 11, and 16.11 on the Erie County Tax Map. The site is an approximately 9.2 acre area bounded by commercial properties and LaSalle Avenue to the north, McCarthy Park to the south, Cordova Avenue to the east, and residential properties located on William Price Parkway to the west (see Site Vicinity Map, Figure 1-1). The site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Site# C915283, which was executed on June 6, 2014.

1.2 Nature and Extent of Contamination Prior to Remediation

Prior to site remediation under the Brownfields Cleanup Program (BCP), a Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the site. The RI activities conducted on the Site as preparation for remedial efforts included the installation of four (4) wells, the advancement of fifteen (15) borings, the excavation of nineteen (19) test pits, and the collection of four (4) surface soil samples. Generally, the RI determined that the historic use of the Site as a landfill was evident in analytical results from the initial RI identifying the widespread presence of low levels of heavy metals and Polycyclic Aromatic Hydrocarbons (PAHs) as the Constituents of Primary Concern (COPCs) in soil/fill across the Site, and specifically at several locations identified across the central portion of the Site where the COPC concentrations were elevated relative the rest of the Site. Previous investigations had been conducted on portions of the BCP Site referenced as the LaSalle Reservoir Site, which generally encompassed the southeastern half of the Site (the former Buffalo Crushed Stone quarry area).

Four (4) impacted locations identified during the initial RI were subject to a supplemental remedial investigation delineating the elevated COPC impacts detected in these areas of concern. Findings from the supplemental test pit investigation of the four impacted areas of interest confirmed that there was no evidence of significant lateral or vertical contamination surrounding the original soil boring locations. Levels of COPCs detected in the supplemental test pits indicated that concentrations of COPCs, where detected, were below site-specific soil cleanup objectives as proposed in the Final RI Report and consistent with observations of RI analytical results across the site. The heterogeneous nature of the soil/fill across the Site, and analytical results indicating widespread low-level concentrations of COPCs above the Restricted Residential SCOs throughout Site overburden, demonstrated that a source or sources of contamination found at the four original areas of concern was not present.

1.3 Site Remedial Program

The site was remediated in accordance with the NYSDEC-approved 89 LaSalle RI-IRM-AA Report dated January 2015.

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

- Excavation of soil/fill identified at four RI boring locations as significantly exceeding restricted residential SCOs, to a minimum depth of 5 feet or bedrock where applicable;
- Construction and maintenance of a soil cover system consisting of two feet of clean imported material, and/or impervious material (i.e, asphalt pavement, concrete sidewalks and buildings) differentiated by a demarcation layer to prevent human exposure to remaining contaminated soil/fill remaining at the site;
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.
- Development and implementation of a Site Management Plan (SMP) 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) maintenance and (4) reporting;

Remedial activities were completed at the site in February 2015 (hotspot soil/fill excavations), and between April and October 2015 installation of the Site's cover system was incrementally installed as the Site's development progressed through construction and final site restoration.

A total of 350 tons of contaminated soil/fill was excavated and removed from the four hotspot locations identified in the RI Report (Boring locations B-5, B-7, B-8 and B-9) and illustrated on Figure 5 in the SMP. The excavated hotspot locations were subsequently backfilled with excess soils excavated and stockpiled from other uncontaminated locations on the Site, primarily storm sewer and water line utility trenching locations. In addition, approximately 1300 tons of topsoil mixed with vegetative material was also stripped from the upper 3-6 inches of portions of the site and disposed of off-site. This material was not identified as exceeding the applicable SCOs, however it was not suitable for reuse on the Site as part of the final cover system.

After completion of the remedial work, some contamination was left in the subsurface at this site, which is hereafter referred to as "remaining contamination." A layer of geotextile fabric has been installed as a demarcation layer in those areas of the Site where two feet of clean soil cover is the component of the cover system. This geotextile was placed on top of the subgrade soil/fill prior to placement of clean soil. At other locations on the Site where the cover system consists of impervious asphalt or concrete, a layer of geotextile has also been placed between the remaining soil/fill and clean structural gravel or crushed stone fill. In areas were buildings or structures act as the final cover system, a minimum of two feet, and in most areas four feet, of clean imported material was placed prior to placement of concrete pads and the erection of structures. In the case of Building 1, clean subbase material was placed, covered with clean topsoil and seeded in the same manner as other green space on the Site, until such time the building foundations and concrete pad were poured and the topsoil and vegetative cover stripped down to the clean subbase material.

The SMP was prepared to manage remaining contamination at the site until the Environmental Easements are extinguished in accordance with ECL Article 71, Title 36. The SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the Site.

1.4 Purpose of Periodic Review Report

This Periodic Review Report (PRR) presents information on the maintenance, monitoring and compliance activities performed at the 89 LaSalle Avenue Site No. C915283 covering the period from April 1, 2017 to March 30, 2018.

During the reporting period of this PRR, intrusive activities were performed on the BCP Site related to the final development of the Site, i.e., the construction of Building 1. Due to lack of a qualifying rain event in the first three months of 2018, the second stormwater and sediment sampling event was postponed and occurred on April 16, 2018, to be included for submission with this report.

2.0 REMEDIAL SYSTEMS COMPLIANCE

2.1.1 General

Since remaining contaminated soil and groundwater exists beneath the site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment.

Site specific SCOs were developed and approved based on 6NYCRR Part 375 Restricted Residential SCOs. These SCOs were employed as soil cleanup goals to achieve the remedial action objectives for the Site of minimizing the potential for exposure of remaining soil contaminants to humans and the environment. The SCOs established are soil concentration limits protective of human health and surface water quality. Achievement of the site specific SCOs was confirmed through verification sampling.

The selected Engineering Control implemented at the Site (following completion of remediation activities) was the construction and maintenance of a soil cover system consisting of two feet of clean imported material and/or impervious material (i.e., asphalt pavement, concrete sidewalks and buildings), differentiated by a demarcation layer to prevent human exposure to remaining contaminated soil/fill.

The approved SMP requires the implementation of a long-term monitoring plan that incorporates monitoring and maintenance of the Site cover system to identify evidence of excessive soil erosion to soil cover systems or deterioration of asphalt or concrete structures that might indicate that off-site transport of soil/fill is likely to occur or is occurring. In addition, semi-annual stormwater and sediment monitoring and analysis is performed to further assess performance of the cover system.

The results of the required monitoring activities and annual inspection are presented in Section 4 “Monitoring Plan Compliance Report”.

3.0 INSTITUTIONAL CONTROL COMPLIANCE

3.1 Introduction

3.1.1 General

Since remaining contaminated soil and groundwater exist beneath the Site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs at the site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC. The goals of the ICs are to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to Restricted Residential uses only. Adherence to these Institutional Controls is required by the Environmental Easement and will be implemented under this Site Management Plan.

3.2 Description of Institutional Controls

The Institutional Controls are:

- Compliance with the Environmental Easements and the SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be maintained as specified in the SMP;
- All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP;
- Stormwater, sediment and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

The Site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for restricted residential use, provided that the long-term Engineering and Institutional Controls included in the SMP are employed;
- The property may not be used for a higher level of use, such as unrestricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- Vegetable gardens and farming on the property are prohibited; and,
- 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 at an alternate frequency that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

The Environmental Easement summarizing the site use restrictions and requirements for the Site was executed by the Department on December 14, 2015, and filed with the Erie County Clerk on December 15, 2015. A copy of the easement and proof of filing is provided in Appendix A of the SMP.

3.2.1 Status of ICs

During the reporting period covered by this PRR, all ICs were in place and effective in meeting their objectives. Intrusive work was performed on the BCP Site during the reporting period covered by this PRR for installation of building foundations and associated utilities. All intrusive work was conducted in accordance with the Excavation Work Plan approved by NYSDEC.

There are no corrective measures required to insure the effectiveness of ICs at this time based on the results of the monitoring and annual inspection performed.

Stormwater and sediment samples for the current PRR period were collected on November 02, 2017 and April 16, 2018, when stormwater effluent was present in sufficient quantity for sampling at the MH-1 structure. The next sampling event is tentatively scheduled for September 2018.

It should be noted that for this reporting period, the stormwater and sediment sample was collected on April 16, 2018 due to the lack of a qualifying rain event during the first three months of 2018.

4.0 MONITORING PLAN COMPLIANCE REPORT

4.1 Introduction

4.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected site media identified below. The Monitoring Plan may only be revised with the approval of NYSDEC.

4.1.2 Schedule

Semi-annual monitoring and inspection of the performance of the remedy and overall reduction in contamination on-site will be conducted for the first 5 years. The frequency thereafter will be determined by NYSDEC. Characterizations of the quality of stormwater and sediment generated as runoff from the Site's engineered cover system have been selected as representative Site monitoring media. Trends in contaminant levels in stormwater and sediment in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. The monitoring and inspection program are summarized in detail in Table 4-1. The results of the monitoring performed are discussed further in Section 4.2.

Table 4-1: Monitoring/Inspection Schedule

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

Monitoring Program	Frequency*	Matrix	Analysis/Comments
Stormwater Discharge to City of Buffalo Storm Sewer System	Semi-annually	Stormwater runoff and sediment (when present)	TAL Metals (Method 6010C), Semi-volatile compounds (Method 8270D SIM), Total Solids [sediment only] (SM 2540)
Semiannual Site Inspection	Semi-annually	Visually inspect entire site for cover system integrity and signs of unacceptable deterioration or other damage to cover system components that may result in exposure to contaminated soil	Prepare a detailed written description of the condition of all cover system components. Include a photographic record of inspection areas

4.2 Monitoring Program Results

4.2.1 Surface Water and Sediment Monitoring

On November 2, 2017, a stormwater grab sample was collected from the manhole within 6 hours of a precipitation event exceeding 0.5 inch. A stormwater and sediment sample was collected on April 16, 2018, during a precipitation event exceeding 0.5 inch. The samples were collected at one location, in accordance with the Legacy LaSalle C915283 Site SMP.

Stormwater and associated sediment (when present) samples were collected from the discharge of Manhole 1 (designated MH-1) located at the northwest corner of the BCP Site. MH-1 subsequently discharges to the City of Buffalo storm sewer system in LaSalle Ave.

Stormwater samples were analyzed for Semi-Volatiles and Total Metals. Sediment samples were analyzed for Semi-Volatiles, Total Metals and Total Solids. The analytical results from the November and April sampling events are summarized in Table 4-2. Table 4.2 presents sample detections compared to NYSDEC surface water standards (NYSDEC 1998), Class A Freshwater Sediment Guidance Values (Table 5) from the "*Screening and Assessment of Contaminated Sediments*", NYSDEC, July 2014, and Part 365 Restricted Residential SCOs.

No detections above NYSDEC surface water standards for SVOCs and Metals were found in the stormwater sample for November 2017. No sediment sample was collected for the November 2017 event due to a lack of sufficient sediment at the bottom of the manhole.

In the stormwater sample for April 2018, concentrations of benzo[a]anthracene, benzo[b]fluoranthene, bis(2-ethylhexyl) phthalate, and chrysene of 0.00004 ppm, 0.00009 ppm, 0.0054 ppm, and 0.00008 ppm, respectively, exceeded the NYSDEC surface water standards for SVOCs. Metals exceeding the NYSDEC surface water standards were iron at 12.1 ppm and lead at 0.06023 ppm. Concentrations of iron in the site soils can vary significantly due to a wide range of naturally occurring iron in imported cover soils and the result for iron in the stormwater is not unexpected. No detections above the Class A Freshwater Sediment Guidance Values and Restricted Residential SCOs were found in the sediment sample from April 2018.

A copy of the laboratory Analytical Reports for all stormwater and sediment analyses performed is attached in Appendix A.

4.3 Annual Site Inspection Results

Site inspections were performed on November 2, 2017 and April 16, 2018, exceeding the frequency of once per year established by the SMP Monitoring Program requirements. A Site-wide inspection form was completed (Appendix B) during each inspection. The form compiles sufficient information to assess the following:

- Compliance with all ICs, including Site usage;

- General Site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and,
- Confirmation that Site records are up to date.

All areas of the Site were carefully inspected to assess the condition of surface soil, asphalt and concrete areas to determine if erosion or related deterioration is occurring that would jeopardize the integrity of soil, asphalt or concrete structures preventing the transport of soil/fill onto surrounding properties. In particular, during the November 2017 inspection, special attention was given to inspecting the condition and integrity of the soil and vegetative cover in areas where final redevelopment had not yet occurred due to the phased redevelopment of the Site (i.e., primarily the Building 1 location and adjacent areas). During the April 2018 inspection, special attention was given to the erosion control measures in place surrounding the active construction area encompassing the Building 1 footprint.

Photographic logs containing photos taken during the November and April inspections are provided in Appendix B.

4.4 Summary of Off-Site Activities During Reporting Period

No intrusive activities were performed off-site during the period covered by this PRR.

4.5 Conclusions and Recommendations

At the time of the annual inspection, the Site was fully compliant with the institutional controls described in the SMP. All monitoring results and inspection results were acceptable with only low-level detection of limited PAHs and metals in the stormwater at the Site outfall stormwater discharge and no evidence of erosion of the soil cover or hardscape portions of the cover on the Site.

Semi-annual stormwater and sediment sampling will continue to be scheduled for future monitoring events in the September and March timeframes to be representative of stormwater discharge events from the Site.

5.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

Based on the initial monitoring and inspection results described in Section 4 and conducted during the timeframe covered by this PRR, compliance with all relevant components of the SMP ICs was achieved. A copy of the completed and certified "Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form" is attached in Appendix C.

The stormwater and sediment sampling completed to date (i.e., four semi-annual events) cannot assess the long term performance of the remedy. However, the stormwater and sediment sample results after the first two years of development and the overall condition of the site and integrity of the final soil cover system are indicative that the remedy performed under the BCP is achieving its intended goals of minimizing, to the extent feasible, exposure of remaining contamination to the environment through stormwater runoff and associated sediment erosion.

The next Annual Inspection will be performed in March of 2019. The next semi-annual SMP sampling event will be performed in September of 2018, contingent on stormwater availability for sampling.

6.0 REFERENCES

1. Golder Associates Inc., Final Engineering Report, 89 LaSalle Ave. Site, NYSDEC Site No. C915283, December 2015.

2. Golder Associates Inc., Site Management Plan, 89 LaSalle Ave. Site, NYSDEC Site No. C915283, prepared for Legacy LaSalle LLC, December 2015.

TABLE 4-2

(TABLE 4-1 IN TEXT)

TABLE 4-2
SUMMARY OF ANALYTICAL RESULTS FOR STORMWATER & SEDIMENT SAMPLES
89 LASALLE AVENUE BCP SITE # C915283
LEGACY LASALLE, LLC.
BUFFALO, NY

Lab ID	Water Quality Standards Surface Waters and Groundwater (6 NYCRR Part 703)	Class A Freshwater Sediment Guidance Values*	Restricted Residential SCOs Table 375-6.8(b)	L1740169-01 Stormwater		L1813173-01 Stormwater		L1813173-02 Sediment	
Sample ID				MH-1		MH-1		MH-1	
Sample Date				11/13/17		4/16/18		4/16/18	
Units	(ppm)	(ppm)	(ppm)	(ppm)		(ppm)		(ppm)	
Semivolatile Organics (GC/MS)									
2-Methylnapthalene	NS	NS	NS	0.0001		ND		ND	
Acenaphthene	0.02	NS	100	ND		ND		0.01	J
Acenaphthylene	NS	NS	100	ND		ND		0.0072	J
Anthracene	0.05	NS	100	ND		ND		0.028	J
Benzo[a]anthracene	0.000002	NS	1	ND		0.00004	J	0.1	
Benzo[a]pyrene	NS	NS	1	ND		0.00004	J	0.11	
Benzo[b]fluoranthene	0.000002	NS	1	ND		0.00009	J	0.18	
Benzo[g,h,i]perylene	NS	NS	100	ND		ND		0.056	
Benzo[k]fluoranthene	0.000002	NS	3.9	ND		ND		0.06	
Biphenyl	NS	NS	1	ND		ND		ND	
Bis(2-ethylhexyl) phthalate	0.005	360	NS	ND		0.0054		0.079	J
Chrysene	0.000002	NS	3.9	ND		0.00008	J	0.15	
Dibenzo(a,h)anthracine	NS	NS	0.33	ND		ND		0.016	J
Fluoranthene	0.05	NS	100	ND		0.00012		0.23	
Fluorene	0.05	NS	100	0.00008	J	ND		0.014	J
Indeno[1,2,3-cd]pyrene	0.000002	NS	0.5	ND		ND		0.056	
Napthalene	NS	NS	100	ND		0.00005	J	0.01	J
Phenanthrene	NS	NS	100	0.00016		0.00006	J	0.12	
Pyrene	0.05	NS	100	ND		0.0001		0.21	
Total Metals (SW 846 Series)									
Aluminum	NS	NS	NS	0.059		7.27		2790	
Antimony	0.003	NS	NS	0.00054	J	0.00069	J	2.47	J
Arsenic	0.025	<10	16	0.00033	J	0.0041		4.03	
Barium	NS	NS	400	0.00542		0.07426	J	23.8	
Beryllium	0.003	NS	72	ND		0.00038	J	0.07	J
Cadmium	0.003	<1	4.3	ND		0.00034		0.12	J
Calcium	NA	NS	NS	16.1		65.9		151000	
Chromium	0.05	<43	180	0.00128		0.01992		4.43	
Cobalt	NS	NS	NS	ND		0.00523		2.28	
Copper	0.2	<32	270	0.00102		0.0269		7.58	
Iron	0.3	NS	NA	ND		12.1		7920	
Lead	0.025	<36	400	ND		0.06023		9.23	
Magnesium	NA	NS	NS	1.11		14.2		19900	
Manganese	0.3	NS	2000	0.00291		0.2937		512	
Mercury	0.0007	<0.2	0.81	ND		ND		0.023	J
Nickel	0.1	<23	310	ND		0.01694		5.24	
Potassium	NS	NS	NA	1.89		4.3		399	
Selenium	NS	NS	180	ND		ND		ND	
Silver	NS	<1	180	ND		0.00017	J	ND	
Sodium	20	NS	NS	1.19		12.9		292	
Thalium	NS	NS	NS	ND		ND		ND	
Vanadium	NS	NS	NS	ND		0.01534		6.57	
Zinc	NS	<120	10000	ND		0.1474		25	

TABLE 4-2

SUMMARY OF ANALYTICAL RESULTS FOR STORMWATER & SEDIMENT SAMPLES

89 LASALLE AVENUE BCP SITE # C915283

LEGACY LASALLE, LLC.

BUFFALO, NY

Notes & Data Qualifiers:

* Freshwater Sediment Guidance Values for Class A Sediments. "*Screening & Assessment of Contaminated Sediment*", NYSDEC, June 2014

B = Analyte was detected in associated method blank.

J = Analyte detected at a level less than the reporting limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

Footnotes:

12.1 = Sample concentration exceeds NYSDEC Part 703 Water Quality Standards Surface Waters and Groundwater

0.34 = Sample concentration exceeds NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs)

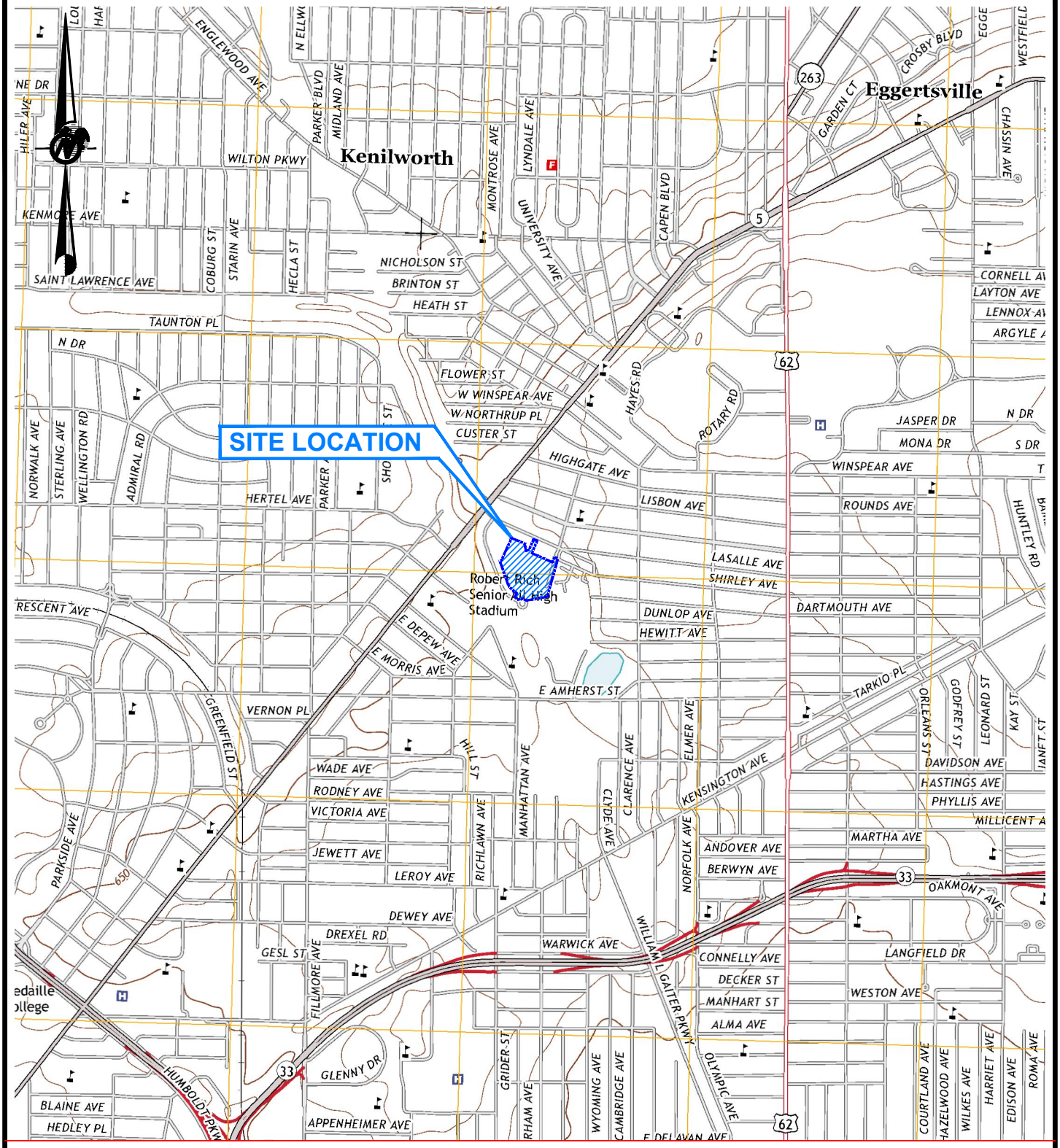
44 = Sample concentration exceeds NYSDEC B10 Freshwater Sediment Guidance Value for Class A sediments

ND = Non detectable concentration by approved analytical methods; water quality standard.

NS = Not Specified.

Table by:	KRH/KMC
Checked by:	PTM
Reviewed by:	PTM

FIGURES



REFERENCE

1.) BASE FROM 7.5 MINUTE QUADRANGLE OF BUFFALO NORTHEAST, NEW YORK DATED 2013.

2000 0 2000
SCALE FEET

Golder Associates
Buffalo, New York

SCALE	AS SHOWN
DATE	5/12/15
DESIGN	JGT
CADD	JGT
CHECK	
REVIEW	

FILE No. 1400657
PROJECT No. 1400657 REV. 0

TITLE

SITE VICINITY MAP

89 LASALLE AVENUE BCP SITE

PERIODIC REVIEW REPORT

LEGACY LASALLE LLC

FIGURE 1-1

Drawing file: Figure 1; Project Site Map.dwg May 12, 2015 – 9:12am

LEGEND

- Sampling Location (Stormwater & Sediment)
- Parcel Boundary
- BCP Site Boundary

N

100 50 0 100
Feet

REFERENCES

ORTHOGRAPHIC MAP - , Parcel boundaries and site boundary from Golder Site Plan dated 2/27/15.

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

SITE MANAGEMENT PLAN
LEGACY LASALLE, LLC - BUFFALO, NEW YORK

TITLE

SITE PLAN & SAMPLING LOCATION
PPR REPORT
89 LASALLE AVE SITE

Golder Associates

PROJECT No.	1776165		FILE No.	1776165002
DESIGN	---	---	SCALE: AS SHOWN	REV. 0
GIS	LBS	5/5/2017		
CHECK	---	---		
REVIEW	PTM	5/5/2017		

FIGURE 4-1

Map Document: G:\Drafting\Projects\2017\1776165 - 89 Lasalle\map documents\1776165002.mxd / Modified 5/5/2017 2:11:43 PM by LStafford / Exported 5/5/2017 2:12:03 PM by LStafford

APPENDIX A

ANALYTICAL DATA REPORT – ALPHA ANALYTICAL

NOVEMBER 2017 & APRIL 2018

ANALYTICAL REPORT

Lab Number:	L1740169
Client:	Golder Associates Inc. 2430 North Forest Rd. Suite 100 Getzville, NY 14068
ATTN:	Patrick Martin
Phone:	(716) 204-5880
Project Name:	89 LASALLE BCP SITE
Project Number:	1787491
Report Date:	11/13/17

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

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

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1740169-01	MH-1 STORMWATER	WATER	89 LASALLE AVE., BUFFALO, NY	11/02/17 11:05	11/02/17

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491
Lab Number: L1740169
Report Date: 11/13/17

Case Narrative

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

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

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

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

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

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

Project Name:	89 LASALLE BCP SITE	**Lab Number:**	L1740169
Project Number:	1787491	**Report Date:**	11/13/17

Case Narrative (continued)

Report Submission

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

Sample Receipt

At the client's request, Dissolved Metals analysis was performed instead of Total Metals analysis.

Dissolved Metals

L1740169-01: The sample has an elevated detection limit for mercury due to the prep dilution required by matrix interferences encountered during analysis.

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 11/13/17

ORGANICS

SEMIVOLATILES

Project Name: 89 LASALLE BCP SITE
Lab Number: L1740169
Project Number: 1787491
Report Date: 11/13/17

SAMPLE RESULTS

Lab ID: L1740169-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE., BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/10/17 17:08
Analyst: CB

Date Collected: 11/02/17 11:05
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 11/08/17 23:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: 89 LASALLE BCP SITE **Lab Number:** L1740169

Project Number: 1787491 **Report Date:** 11/13/17

SAMPLE RESULTS

Lab ID: L1740169-01 Date Collected: 11/02/17 11:05

Client ID: MH-1 STORMWATER Date Received: 11/02/17

Sample Location: 89 LASALLE AVE., BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	74		41-149

Project Name: 89 LASALLE BCP SITE
Lab Number: L1740169
Project Number: 1787491
Report Date: 11/13/17

SAMPLE RESULTS

Lab ID: L1740169-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE., BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/12/17 05:40
Analyst: KL

Date Collected: 11/02/17 11:05
Date Received: 11/02/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 11/08/17 23:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	0.08	J	ug/l	0.10	0.04	1
Phenanthrene	0.16		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.10		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 89 LASALLE BCP SITE
Lab Number: L1740169
Project Number: 1787491
Report Date: 11/13/17

SAMPLE RESULTS

Lab ID: L1740169-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE., BUFFALO, NY
Date Collected: 11/02/17 11:05
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	79		41-149

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491
Lab Number: L1740169
Report Date: 11/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/08/17 15:02
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 11/07/17 23:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1060674-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Isophorone	ND		ug/l	5.0	0.60
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491
Lab Number: L1740169
Report Date: 11/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/08/17 15:02
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 11/07/17 23:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1060674-1					
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Phenol	ND		ug/l	5.0	1.9
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Atrazine	ND		ug/l	10	1.8
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	3.6
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	88		41-149

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491
Lab Number: L1740169
Report Date: 11/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/17 12:43
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 11/07/17 23:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1060675-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	0.05	J	ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491
Lab Number: L1740169
Report Date: 11/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/17 12:43
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 11/07/17 23:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1060675-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	93		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1060674-2 WG1060674-3								
Bis(2-chloroethyl)ether	79		85		40-140	7		30
3,3'-Dichlorobenzidine	77		86		40-140	11		30
2,4-Dinitrotoluene	94		97		48-143	3		30
2,6-Dinitrotoluene	91		95		40-140	4		30
4-Chlorophenyl phenyl ether	86		87		40-140	1		30
4-Bromophenyl phenyl ether	85		88		40-140	3		30
Bis(2-chloroisopropyl)ether	84		90		40-140	7		30
Bis(2-chloroethoxy)methane	85		88		40-140	3		30
Hexachlorocyclopentadiene	55		56		40-140	2		30
Isophorone	86		90		40-140	5		30
Nitrobenzene	83		88		40-140	6		30
NDPA/DPA	86		88		40-140	2		30
n-Nitrosodi-n-propylamine	90		95		29-132	5		30
Bis(2-ethylhexyl)phthalate	107		109		40-140	2		30
Butyl benzyl phthalate	105		108		40-140	3		30
Di-n-butylphthalate	97		100		40-140	3		30
Di-n-octylphthalate	106		109		40-140	3		30
Diethyl phthalate	90		92		40-140	2		30
Dimethyl phthalate	86		91		40-140	6		30
Biphenyl	81		83		40-140	2		30
4-Chloroaniline	51		58		40-140	13		30
2-Nitroaniline	95		97		52-143	2		30
3-Nitroaniline	70		74		25-145	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCP SITE

Project Number: 1787491

Lab Number: L1740169

Report Date: 11/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1060674-2 WG1060674-3								
4-Nitroaniline	80		85		51-143	6		30
Dibenzofuran	83		84		40-140	1		30
1,2,4,5-Tetrachlorobenzene	78		81		2-134	4		30
Acetophenone	92		93		39-129	1		30
2,4,6-Trichlorophenol	88		93		30-130	6		30
p-Chloro-m-cresol	91		94		23-97	3		30
2-Chlorophenol	84		89		27-123	6		30
2,4-Dichlorophenol	90		93		30-130	3		30
2,4-Dimethylphenol	90		92		30-130	2		30
2-Nitrophenol	89		92		30-130	3		30
4-Nitrophenol	62		65		10-80	5		30
2,4-Dinitrophenol	76		79		20-130	4		30
4,6-Dinitro-o-cresol	84		84		20-164	0		30
Phenol	49		53		12-110	8		30
3-Methylphenol/4-Methylphenol	78		81		30-130	4		30
2,4,5-Trichlorophenol	93		95		30-130	2		30
Carbazole	89		92		55-144	3		30
Atrazine	97		99		40-140	2		30
Benzaldehyde	84		90		40-140	7		30
Caprolactam	30		33		10-130	10		30
2,3,4,6-Tetrachlorophenol	89		89		40-140	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1060674-2 WG1060674-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		71		21-120
Phenol-d6	50		52		10-120
Nitrobenzene-d5	85		92		23-120
2-Fluorobiphenyl	81		85		15-120
2,4,6-Tribromophenol	96		100		10-120
4-Terphenyl-d14	86		92		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCP SITE

Project Number: 1787491

Lab Number: L1740169

Report Date: 11/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1060675-2 WG1060675-3								
Acenaphthene	86		81		40-140	6		40
2-Chloronaphthalene	86		81		40-140	6		40
Fluoranthene	95		88		40-140	8		40
Hexachlorobutadiene	74		71		40-140	4		40
Naphthalene	83		80		40-140	4		40
Benzo(a)anthracene	93		83		40-140	11		40
Benzo(a)pyrene	96		86		40-140	11		40
Benzo(b)fluoranthene	100		90		40-140	11		40
Benzo(k)fluoranthene	103		93		40-140	10		40
Chrysene	91		83		40-140	9		40
Acenaphthylene	92		86		40-140	7		40
Anthracene	95		87		40-140	9		40
Benzo(ghi)perylene	104		94		40-140	10		40
Fluorene	89		83		40-140	7		40
Phenanthrene	89		82		40-140	8		40
Dibenzo(a,h)anthracene	106		96		40-140	10		40
Indeno(1,2,3-cd)pyrene	104		94		40-140	10		40
Pyrene	93		85		40-140	9		40
2-Methylnaphthalene	82		78		40-140	5		40
Pentachlorophenol	81		74		40-140	9		40
Hexachlorobenzene	92		86		40-140	7		40
Hexachloroethane	72		70		40-140	3		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1060675-2 WG1060675-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		57		21-120
Phenol-d6	48		46		10-120
Nitrobenzene-d5	88		85		23-120
2-Fluorobiphenyl	83		78		15-120
2,4,6-Tribromophenol	94		85		10-120
4-Terphenyl-d14	96		87		41-149

METALS

Project Name: 89 LASALLE BCP SITE
Lab Number: L1740169
Project Number: 1787491
Report Date: 11/13/17

SAMPLE RESULTS

Lab ID: L1740169-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE., BUFFALO, NY
Matrix: Water
Date Collected: 11/02/17 11:05
Date Received: 11/02/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0590		mg/l	0.0100	0.00327	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00054	J	mg/l	0.00400	0.00042	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00033	J	mg/l	0.00050	0.00016	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.00542		mg/l	0.00050	0.00017	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Calcium, Dissolved	16.1		mg/l	0.100	0.0394	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00128		mg/l	0.00100	0.00017	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00102		mg/l	0.00100	0.00038	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	1.11		mg/l	0.0700	0.0242	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.00291		mg/l	0.00100	0.00044	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00040	0.00013	1	11/06/17 16:01	11/08/17 16:15	EPA 7470A	1,7470A	MG
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Potassium, Dissolved	1.89		mg/l	0.100	0.0309	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Sodium, Dissolved	1.19		mg/l	0.100	0.0293	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/06/17 13:50	11/07/17 11:59	EPA 3005A	1,6020A	AM

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491
Lab Number: L1740169
Report Date: 11/13/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1060039-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Potassium, Dissolved	0.0978	J	mg/l	0.100	0.0309	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Sodium, Dissolved	0.0402	J	mg/l	0.100	0.0293	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/06/17 13:50	11/07/17 11:44	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01 Batch: WG1060086-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	11/06/17 16:01	11/08/17 16:12	1,7470A	MG

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491
Lab Number: L1740169
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Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCP SITE

Project Number: 1787491

Lab Number: L1740169

Report Date: 11/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1060039-2								
Aluminum, Dissolved	111		-		80-120	-		
Antimony, Dissolved	101		-		80-120	-		
Arsenic, Dissolved	108		-		80-120	-		
Barium, Dissolved	104		-		80-120	-		
Beryllium, Dissolved	99		-		80-120	-		
Cadmium, Dissolved	113		-		80-120	-		
Calcium, Dissolved	111		-		80-120	-		
Chromium, Dissolved	102		-		80-120	-		
Cobalt, Dissolved	100		-		80-120	-		
Copper, Dissolved	99		-		80-120	-		
Iron, Dissolved	106		-		80-120	-		
Lead, Dissolved	108		-		80-120	-		
Magnesium, Dissolved	112		-		80-120	-		
Manganese, Dissolved	104		-		80-120	-		
Nickel, Dissolved	101		-		80-120	-		
Potassium, Dissolved	107		-		80-120	-		
Selenium, Dissolved	115		-		80-120	-		
Silver, Dissolved	103		-		80-120	-		
Sodium, Dissolved	107		-		80-120	-		
Thallium, Dissolved	104		-		80-120	-		
Vanadium, Dissolved	103		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE BCP SITE

Project Number: 1787491

Lab Number: L1740169

Report Date: 11/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1060039-2					
Zinc, Dissolved	108	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1060086-2					
Mercury, Dissolved	88	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1060039-3 QC Sample: L1740169-01 Client ID: MH-1 STORMWATER												
Aluminum, Dissolved	0.0590	2	2.36	115		-	-		75-125	-		20
Antimony, Dissolved	0.00054J	0.5	0.5249	105		-	-		75-125	-		20
Arsenic, Dissolved	0.00033J	0.12	0.1230	102		-	-		75-125	-		20
Barium, Dissolved	0.00542	2	2.075	103		-	-		75-125	-		20
Beryllium, Dissolved	ND	0.05	0.05052	101		-	-		75-125	-		20
Cadmium, Dissolved	ND	0.051	0.05753	113		-	-		75-125	-		20
Calcium, Dissolved	16.1	10	26.3	102		-	-		75-125	-		20
Chromium, Dissolved	0.00128	0.2	0.2060	102		-	-		75-125	-		20
Cobalt, Dissolved	ND	0.5	0.4974	99		-	-		75-125	-		20
Copper, Dissolved	0.00102	0.25	0.2543	101		-	-		75-125	-		20
Iron, Dissolved	ND	1	1.01	101		-	-		75-125	-		20
Lead, Dissolved	ND	0.51	0.5501	108		-	-		75-125	-		20
Magnesium, Dissolved	1.11	10	12.4	113		-	-		75-125	-		20
Manganese, Dissolved	0.00291	0.5	0.5198	103		-	-		75-125	-		20
Nickel, Dissolved	ND	0.5	0.4996	100		-	-		75-125	-		20
Potassium, Dissolved	1.89	10	13.0	111		-	-		75-125	-		20
Selenium, Dissolved	ND	0.12	0.122	102		-	-		75-125	-		20
Silver, Dissolved	ND	0.05	0.05174	103		-	-		75-125	-		20
Sodium, Dissolved	1.19	10	11.7	105		-	-		75-125	-		20
Thallium, Dissolved	ND	0.12	0.1242	104		-	-		75-125	-		20
Vanadium, Dissolved	ND	0.5	0.5249	105		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1060039-3 QC Sample: L1740169-01 Client ID: MH-1 STORMWATER									
Zinc, Dissolved	ND	0.5	0.5382	108	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1060086-3 QC Sample: L1740169-01 Client ID: MH-1 STORMWATER									
Mercury, Dissolved	ND	0.01	0.00984	98	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1060039-4 QC Sample: L1740169-01 Client ID: MH-1 STORMWATER						
Aluminum, Dissolved	0.0590	0.0602	mg/l	2		20
Antimony, Dissolved	0.00054J	0.00141J	mg/l	NC		20
Arsenic, Dissolved	0.00033J	0.00031J	mg/l	NC		20
Barium, Dissolved	0.00542	0.00487	mg/l	11		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	16.1	15.8	mg/l	2		20
Chromium, Dissolved	0.00128	0.00131	mg/l	3		20
Cobalt, Dissolved	ND	ND	mg/l	NC		20
Copper, Dissolved	0.00102	0.00105	mg/l	3		20
Iron, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	1.11	1.11	mg/l	0		20
Manganese, Dissolved	0.00291	0.00248	mg/l	16		20
Nickel, Dissolved	ND	ND	mg/l	NC		20
Potassium, Dissolved	1.89	1.85	mg/l	2		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	1.19	1.17	mg/l	2		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
Report Date: 11/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1060039-4 QC Sample: L1740169-01 Client ID: MH-1 STORMWATER					
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1060086-4 QC Sample: L1740169-01 Client ID: MH-1 STORMWATER					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Project Name: 89 LASALLE BCP SITE
Project Number: 1787491

Lab Number: L1740169
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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(*)
L1740169-01A	Plastic 250ml HNO3 preserved	A	<2	<2	5.1	Y	Absent		HOLD-METAL(180)
L1740169-01B	Amber 1000ml unpreserved	A	7	7	5.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1740169-01C	Amber 1000ml unpreserved	A	7	7	5.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1740169-01D	Plastic 250ml unpreserved split	A	7	7	5.1	Y	Absent		-
L1740169-01X	Plastic 250ml HNO3 preserved Filtrates	A	NA		5.1	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name:	89 LASALLE BCP SITE	**Lab Number:**	L1740169
Project Number:	1787491	**Report Date:**	11/13/17

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE BCP SITE	**Lab Number:**	L1740169
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Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE BCP SITE	**Lab Number:**	L1740169
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REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

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

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

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

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

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

ALPHA

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 1 of 1

Date Rec'd in Lab: 11/3/17

ALPHA Job #: L1740169

Client Information
Client: GOLDER ASSOCIATES
Address: 2430 N. FOREST RD STE. 100
Phone: 716-204-5880
Fax:
Email: ptmartin@golder.com

Project Information
Project Name: 89 LASALLE BKP SITE
Project Location: 89 LASALLE AVE, BUFFALO NY
Project #: 1787491
(Use Project name as Project #)
Project Manager: PATRICK MARTIN
ALPHAQuote #:

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

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

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

Billing Information
Same as Client Info:
PO #:

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

These samples have been previously analyzed by Alpha:

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS
NYTCL - 8270
TOTAL MTLS
TOTAL Hg 6020

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL - 8270	TOTAL MTLS	TOTAL Hg 6020	Sample Specific Comments	Total Bottle
40169-01	MH-1 STORMWATER	11/02/17	11:05	WATER	PTM	X	X		PLS FILTER FOR METALS	3
	MH-1 SEDIMENT	11/02/17								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type:
Preservative:

Relinquished By:	Date/Time	Received By:	Date/Time
Patrick J. Martin	11/02/17 15:50	Jon Ash AAL	11/02/17 15:50
Jon Ash AAL	11/02/17 15:50		11/3/17 01:20

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

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

ANALYTICAL REPORT

Lab Number:	L1813173
Client:	Golder Associates Inc. 2430 North Forest Rd. Suite 100 Getzville, NY 14068
ATTN:	Patrick Martin
Phone:	(716) 204-5880
Project Name:	89 LASALLE AVE. BCP SITE
Project Number:	1787491
Report Date:	04/23/18

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

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

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1813173-01	MH-1 STORMWATER	WATER	89 LASALLE AVE., BUFFALO, NY	04/16/18 13:45	04/16/18
L1813173-02	MH-1 SEDIMENT	SOIL	89 LASALLE AVE., BUFFALO, NY	04/16/18 13:50	04/16/18

Project Name:	89 LASALLE AVE. BCP SITE	**Lab Number:**	L1813173
Project Number:	1787491	**Report Date:**	04/23/18

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:	89 LASALLE AVE. BCP SITE	**Lab Number:**	L1813173
Project Number:	1787491	**Report Date:**	04/23/18

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.

Semivolatile Organics by SIM

L1813173-02: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L1813173-02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1107593-3 MS recoveries, performed on L1813173-01, are outside the acceptance criteria for aluminum (172%) and thallium (49%). A post digestion spike was performed and yielded unacceptable recoveries for aluminum (438%) and thallium (50%). This has been attributed to sample matrix.

The WG1107593-3 MS recoveries for calcium (64%) and iron (40%), performed on L1813173-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

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: Cristin Walker

Title: Technical Director/Representative Date: 04/23/18

ORGANICS

SEMIVOLATILES

Project Name: 89 LASALLE AVE. BCP SITE
Lab Number: L1813173
Project Number: 1787491
Report Date: 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE., BUFFALO, NY

Date Collected: 04/16/18 13:45
Date Received: 04/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 04/19/18 02:27
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/18/18 04:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	5.4		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-01 Date Collected: 04/16/18 13:45

Client ID: MH-1 STORMWATER Date Received: 04/16/18

Sample Location: 89 LASALLE AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	91		41-149

Project Name: 89 LASALLE AVE. BCP SITE
Lab Number: L1813173
Project Number: 1787491
Report Date: 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-01
Client ID: MH-1 STORMWATER
Sample Location: 89 LASALLE AVE., BUFFALO, NY

Date Collected: 04/16/18 13:45
Date Received: 04/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 04/19/18 19:15
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/18/18 04:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.12		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.05	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.09	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.08	J	ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.06	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.10		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-01 Date Collected: 04/16/18 13:45

Client ID: MH-1 STORMWATER Date Received: 04/16/18

Sample Location: 89 LASALLE AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	70		41-149

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-02
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE., BUFFALO, NY

Date Collected: 04/16/18 13:50
Date Received: 04/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/18/18 15:39
Analyst: ALS
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 04/17/18 10:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Isophorone	ND		ug/kg	190	28.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	79	J	ug/kg	220	74.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	41.	1
3-Nitroaniline	ND		ug/kg	220	40.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-02 Date Collected: 04/16/18 13:50

Client ID: MH-1 SEDIMENT Date Received: 04/16/18

Sample Location: 89 LASALLE AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	220	71.	1
2-Nitrophenol	ND		ug/kg	460	81.	1
4-Nitrophenol	ND		ug/kg	300	88.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Phenol	ND		ug/kg	220	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	41.	1
Carbazole	ND		ug/kg	220	21.	1
Atrazine	ND		ug/kg	170	75.	1
Benzaldehyde	ND		ug/kg	280	58.	1
Caprolactam	ND		ug/kg	220	65.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	43.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	45		18-120

Project Name: 89 LASALLE AVE. BCP SITE
Lab Number: L1813173
Project Number: 1787491
Report Date: 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-02 D
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE., BUFFALO, NY

Date Collected: 04/16/18 13:50
Date Received: 04/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 04/19/18 23:00
Analyst: DV
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 04/18/18 11:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	10	J	ug/kg	44	9.2	5
2-Chloronaphthalene	ND		ug/kg	44	5.7	5
Fluoranthene	230		ug/kg	44	3.0	5
Hexachlorobutadiene	ND		ug/kg	44	6.1	5
Naphthalene	10	J	ug/kg	44	7.8	5
Benzo(a)anthracene	100		ug/kg	44	4.1	5
Benzo(a)pyrene	110		ug/kg	44	5.2	5
Benzo(b)fluoranthene	180		ug/kg	44	4.1	5
Benzo(k)fluoranthene	60		ug/kg	44	3.9	5
Chrysene	150		ug/kg	44	3.3	5
Acenaphthylene	7.2	J	ug/kg	44	5.4	5
Anthracene	28	J	ug/kg	44	3.5	5
Benzo(ghi)perylene	56		ug/kg	44	3.7	5
Fluorene	14	J	ug/kg	44	5.2	5
Phenanthrene	120		ug/kg	44	3.7	5
Dibenzo(a,h)anthracene	16	J	ug/kg	44	4.4	5
Indeno(1,2,3-cd)pyrene	56		ug/kg	44	5.2	5
Pyrene	210		ug/kg	44	3.0	5
2-Methylnaphthalene	ND		ug/kg	44	12.	5
Pentachlorophenol	ND		ug/kg	170	19.	5
Hexachlorobenzene	ND		ug/kg	44	4.6	5
Hexachloroethane	ND		ug/kg	44	8.1	5

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-02 D
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE., BUFFALO, NY

Date Collected: 04/16/18 13:50
Date Received: 04/16/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	49		0-136
4-Terphenyl-d14	43		18-120

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/18 08:01
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/17/18 10:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1107149-1					
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Isophorone	ND		ug/kg	150	21.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/18 08:01
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/17/18 10:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1107149-1					
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Phenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/18 08:01
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/17/18 10:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1107149-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	104		18-120

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/18 20:29
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/18/18 04:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1107401-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Isophorone	ND		ug/l	5.0	0.60
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	2.3	J	ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/18 20:29
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/18/18 04:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1107401-1					
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Phenol	ND		ug/l	5.0	1.9
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Atrazine	ND		ug/l	10	1.8
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	3.6
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/18/18 20:29
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 04/18/18 04:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1107401-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	104		41-149

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/19/18 16:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/18/18 04:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1107402-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/19/18 16:37
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 04/18/18 04:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1107402-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	80		41-149

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/19/18 21:35
Analyst: DV

Extraction Method: EPA 3546
Extraction Date: 04/18/18 11:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1107531-1					
Acenaphthene	ND		ug/kg	6.6	1.4
2-Chloronaphthalene	ND		ug/kg	6.6	0.86
Fluoranthene	ND		ug/kg	6.6	0.46
Hexachlorobutadiene	ND		ug/kg	6.6	0.92
Naphthalene	2.1	J	ug/kg	6.6	1.2
Benzo(a)anthracene	ND		ug/kg	6.6	0.62
Benzo(a)pyrene	ND		ug/kg	6.6	0.79
Benzo(b)fluoranthene	ND		ug/kg	6.6	0.62
Benzo(k)fluoranthene	ND		ug/kg	6.6	0.59
Chrysene	ND		ug/kg	6.6	0.49
Acenaphthylene	ND		ug/kg	6.6	0.82
Anthracene	ND		ug/kg	6.6	0.53
Benzo(ghi)perylene	ND		ug/kg	6.6	0.56
Fluorene	ND		ug/kg	6.6	0.79
Phenanthrene	ND		ug/kg	6.6	0.56
Dibenzo(a,h)anthracene	ND		ug/kg	6.6	0.66
Indeno(1,2,3-cd)pyrene	ND		ug/kg	6.6	0.79
Pyrene	ND		ug/kg	6.6	0.46
2-Methylnaphthalene	ND		ug/kg	6.6	1.9
Pentachlorophenol	ND		ug/kg	26	2.9
Hexachlorobenzene	ND		ug/kg	6.6	0.69
Hexachloroethane	ND		ug/kg	6.6	1.2

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 04/19/18 21:35
Analyst: DV

Extraction Method: EPA 3546
Extraction Date: 04/18/18 11:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1107531-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	51		0-136
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1107149-2 WG1107149-3								
Bis(2-chloroethyl)ether	76		90		40-140	17		50
3,3'-Dichlorobenzidine	69		73		40-140	6		50
2,4-Dinitrotoluene	107		108		40-132	1		50
2,6-Dinitrotoluene	107		106		40-140	1		50
4-Chlorophenyl phenyl ether	86		87		40-140	1		50
4-Bromophenyl phenyl ether	92		94		40-140	2		50
Bis(2-chloroisopropyl)ether	83		80		40-140	4		50
Bis(2-chloroethoxy)methane	84		86		40-117	2		50
Hexachlorocyclopentadiene	82		87		40-140	6		50
Isophorone	88		91		40-140	3		50
Nitrobenzene	88		89		40-140	1		50
NDPA/DPA	89		91		36-157	2		50
n-Nitrosodi-n-propylamine	90		90		32-121	0		50
Bis(2-ethylhexyl)phthalate	105		104		40-140	1		50
Butyl benzyl phthalate	105		102		40-140	3		50
Di-n-butylphthalate	108		108		40-140	0		50
Di-n-octylphthalate	107		107		40-140	0		50
Diethyl phthalate	93		93		40-140	0		50
Dimethyl phthalate	91		95		40-140	4		50
Biphenyl	89		90		54-104	1		50
4-Chloroaniline	48		63		40-140	27		50
2-Nitroaniline	107		107		47-134	0		50
3-Nitroaniline	64		69		26-129	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1107149-2 WG1107149-3								
4-Nitroaniline	89		90		41-125	1		50
Dibenzofuran	84		84		40-140	0		50
1,2,4,5-Tetrachlorobenzene	84		87		40-117	4		50
Acetophenone	89		89		14-144	0		50
2,4,6-Trichlorophenol	105		108		30-130	3		50
p-Chloro-m-cresol	101		**104**	Q	26-103	3		50
2-Chlorophenol	86		101		25-102	16		50
2,4-Dichlorophenol	95		98		30-130	3		50
2,4-Dimethylphenol	92		99		30-130	7		50
2-Nitrophenol	101		104		30-130	3		50
4-Nitrophenol	105		104		11-114	1		50
2,4-Dinitrophenol	96		86		4-130	11		50
4,6-Dinitro-o-cresol	108		108		10-130	0		50
Phenol	78		**94**	Q	26-90	19		50
3-Methylphenol/4-Methylphenol	90		93		30-130	3		50
2,4,5-Trichlorophenol	105		107		30-130	2		50
Carbazole	90		89		54-128	1		50
Atrazine	100		99		40-140	1		50
Benzaldehyde	76		89		40-140	16		50
Caprolactam	109		109		15-130	0		50
2,3,4,6-Tetrachlorophenol	98		98		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1107149-2 WG1107149-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		103		25-120
Phenol-d6	87		106		10-120
Nitrobenzene-d5	91		93		23-120
2-Fluorobiphenyl	87		90		30-120
2,4,6-Tribromophenol	105		107		10-136
4-Terphenyl-d14	101		100		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1107401-2 WG1107401-3								
Bis(2-chloroethyl)ether	74		80		40-140	8		30
3,3'-Dichlorobenzidine	79		76		40-140	4		30
2,4-Dinitrotoluene	118		111		48-143	6		30
2,6-Dinitrotoluene	111		103		40-140	7		30
4-Chlorophenyl phenyl ether	94		90		40-140	4		30
4-Bromophenyl phenyl ether	100		96		40-140	4		30
Bis(2-chloroisopropyl)ether	73		75		40-140	3		30
Bis(2-chloroethoxy)methane	80		83		40-140	4		30
Hexachlorocyclopentadiene	89		84		40-140	6		30
Isophorone	84		86		40-140	2		30
Nitrobenzene	86		89		40-140	3		30
NDPA/DPA	97		92		40-140	5		30
n-Nitrosodi-n-propylamine	83		83		29-132	0		30
Bis(2-ethylhexyl)phthalate	118		112		40-140	5		30
Butyl benzyl phthalate	108		102		40-140	6		30
Di-n-butylphthalate	104		98		40-140	6		30
Di-n-octylphthalate	107		99		40-140	8		30
Diethyl phthalate	100		95		40-140	5		30
Dimethyl phthalate	94		91		40-140	3		30
Biphenyl	90		87		40-140	3		30
4-Chloroaniline	70		71		40-140	1		30
2-Nitroaniline	110		109		52-143	1		30
3-Nitroaniline	81		76		25-145	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1107401-2 WG1107401-3								
4-Nitroaniline	99		91		51-143	8		30
Dibenzofuran	94		89		40-140	5		30
1,2,4,5-Tetrachlorobenzene	90		89		2-134	1		30
Acetophenone	84		88		39-129	5		30
2,4,6-Trichlorophenol	102		102		30-130	0		30
p-Chloro-m-cresol	**101**	Q	**99**	Q	23-97	2		30
2-Chlorophenol	84		89		27-123	6		30
2,4-Dichlorophenol	93		94		30-130	1		30
2,4-Dimethylphenol	94		92		30-130	2		30
2-Nitrophenol	106		110		30-130	4		30
4-Nitrophenol	**86**	Q	79		10-80	8		30
2,4-Dinitrophenol	122		117		20-130	4		30
4,6-Dinitro-o-cresol	129		120		20-164	7		30
Phenol	48		51		12-110	6		30
3-Methylphenol/4-Methylphenol	80		85		30-130	6		30
2,4,5-Trichlorophenol	107		104		30-130	3		30
Carbazole	98		93		55-144	5		30
Atrazine	103		96		40-140	7		30
Benzaldehyde	72		78		40-140	8		30
Caprolactam	28		28		10-130	0		30
2,3,4,6-Tetrachlorophenol	110		102		40-140	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1107401-2 WG1107401-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		61		21-120
Phenol-d6	49		51		10-120
Nitrobenzene-d5	90		94		23-120
2-Fluorobiphenyl	94		95		15-120
2,4,6-Tribromophenol	115		114		10-120
4-Terphenyl-d14	108		105		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1107402-2 WG1107402-3								
Acenaphthene	55		62		40-140	12		40
2-Chloronaphthalene	52		58		40-140	11		40
Fluoranthene	60		70		40-140	15		40
Hexachlorobutadiene	53		60		40-140	12		40
Naphthalene	53		60		40-140	12		40
Benzo(a)anthracene	61		73		40-140	18		40
Benzo(a)pyrene	60		71		40-140	17		40
Benzo(b)fluoranthene	61		75		40-140	21		40
Benzo(k)fluoranthene	59		71		40-140	18		40
Chrysene	63		74		40-140	16		40
Acenaphthylene	57		65		40-140	13		40
Anthracene	60		69		40-140	14		40
Benzo(ghi)perylene	45		53		40-140	16		40
Fluorene	59		67		40-140	13		40
Phenanthrene	58		67		40-140	14		40
Dibenzo(a,h)anthracene	54		64		40-140	17		40
Indeno(1,2,3-cd)pyrene	51		61		40-140	18		40
Pyrene	61		70		40-140	14		40
2-Methylnaphthalene	54		60		40-140	11		40
Pentachlorophenol	75		88		40-140	16		40
Hexachlorobenzene	64		74		40-140	14		40
Hexachloroethane	**30**	Q	**35**	Q	40-140	15		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1107402-2 WG1107402-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	34		37		21-120
Phenol-d6	27		30		10-120
Nitrobenzene-d5	53		59		23-120
2-Fluorobiphenyl	65		72		15-120
2,4,6-Tribromophenol	57		65		10-120
4-Terphenyl-d14	71		83		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1107531-2 WG1107531-3								
Acenaphthene	65		71		40-140	9		50
2-Chloronaphthalene	60		67		40-140	11		50
Fluoranthene	64		69		40-140	8		50
Hexachlorobutadiene	52		60		34-107	14		50
Naphthalene	58		66		40-140	13		50
Benzo(a)anthracene	64		68		40-140	6		50
Benzo(a)pyrene	67		71		40-140	6		50
Benzo(b)fluoranthene	66		70		40-140	6		50
Benzo(k)fluoranthene	68		71		40-140	4		50
Chrysene	65		70		40-140	7		50
Acenaphthylene	62		70		40-140	12		50
Anthracene	64		69		40-140	8		50
Benzo(ghi)perylene	65		67		40-140	3		50
Fluorene	67		71		40-140	6		50
Phenanthrene	62		67		40-140	8		50
Dibenzo(a,h)anthracene	70		73		40-140	4		50
Indeno(1,2,3-cd)pyrene	69		71		40-140	3		50
Pyrene	63		68		35-142	8		50
2-Methylnaphthalene	63		70		40-140	11		50
Pentachlorophenol	55		58		17-109	5		50
Hexachlorobenzene	51		55		40-140	8		50
Hexachloroethane	66		76		29-106	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1107531-2 WG1107531-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		57		25-120
Phenol-d6	55		56		10-120
Nitrobenzene-d5	74		81		23-120
2-Fluorobiphenyl	69		74		30-120
2,4,6-Tribromophenol	50		52		0-136
4-Terphenyl-d14	75		79		18-120

METALS

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-01 Date Collected: 04/16/18 13:45

Client ID: MH-1 STORMWATER Date Received: 04/16/18

Sample Location: 89 LASALLE AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7.27		mg/l	0.0100	0.00327	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Antimony, Total	0.00069	J	mg/l	0.00400	0.00042	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00410		mg/l	0.00050	0.00016	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Barium, Total	0.07426		mg/l	0.00050	0.00017	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00038	J	mg/l	0.00050	0.00010	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00034		mg/l	0.00020	0.00005	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Calcium, Total	65.9		mg/l	0.100	0.0394	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Chromium, Total	0.01992		mg/l	0.00100	0.00017	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00523		mg/l	0.00050	0.00016	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Copper, Total	0.02690		mg/l	0.00100	0.00038	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Iron, Total	12.1		mg/l	0.0500	0.0191	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Lead, Total	0.06023		mg/l	0.00100	0.00034	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Magnesium, Total	14.2		mg/l	0.0700	0.0242	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Manganese, Total	0.2937		mg/l	0.00100	0.00044	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/17/18 14:40	04/17/18 22:14	EPA 7470A	1,7470A	EA
Nickel, Total	0.01694		mg/l	0.00200	0.00055	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Potassium, Total	4.30		mg/l	0.100	0.0309	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Silver, Total	0.00017	J	mg/l	0.00040	0.00016	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Sodium, Total	12.9		mg/l	0.100	0.0293	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Vanadium, Total	0.01534		mg/l	0.00500	0.00157	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM
Zinc, Total	0.1474		mg/l	0.01000	0.00341	1	04/18/18 14:35	04/19/18 13:48	EPA 3005A	1,6020A	AM

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-02 Date Collected: 04/16/18 13:50

Client ID: MH-1 SEDIMENT Date Received: 04/16/18

Sample Location: 89 LASALLE AVE., BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2790		mg/kg	9.96	2.69	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Antimony, Total	2.47	J	mg/kg	4.98	0.378	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Arsenic, Total	4.03		mg/kg	0.996	0.207	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Barium, Total	23.8		mg/kg	0.996	0.173	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Beryllium, Total	0.070	J	mg/kg	0.498	0.033	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Cadmium, Total	0.120	J	mg/kg	0.996	0.098	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Calcium, Total	151000		mg/kg	9.96	3.48	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Chromium, Total	4.43		mg/kg	0.996	0.096	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Cobalt, Total	2.28		mg/kg	1.99	0.165	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Copper, Total	7.58		mg/kg	0.996	0.257	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Iron, Total	7920		mg/kg	4.98	0.899	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Lead, Total	9.23		mg/kg	4.98	0.267	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Magnesium, Total	19900		mg/kg	9.96	1.53	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Manganese, Total	512		mg/kg	0.996	0.158	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Mercury, Total	0.023	J	mg/kg	0.083	0.018	1	04/18/18 08:00	04/18/18 13:04	EPA 7471B	1,7471B	MG
Nickel, Total	5.24		mg/kg	2.49	0.241	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Potassium, Total	399		mg/kg	249	14.3	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Selenium, Total	ND		mg/kg	1.99	0.257	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.996	0.282	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Sodium, Total	292		mg/kg	199	3.14	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.99	0.314	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Vanadium, Total	6.57		mg/kg	0.996	0.202	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC
Zinc, Total	25.0		mg/kg	4.98	0.292	2	04/18/18 06:40	04/18/18 14:07	EPA 3050B	1,6010C	LC

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1107223-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/17/18 14:40	04/17/18 22:10	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1107409-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Iron, Total	0.376	J	mg/kg	2.00	0.361	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Manganese, Total	0.172	J	mg/kg	0.400	0.064	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Sodium, Total	3.48	J	mg/kg	80.0	1.26	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/18/18 06:40	04/18/18 09:53	1,6010C	LC

Project Name: 89 LASALLE AVE. BCP SITE **Lab Number:** L1813173

Project Number: 1787491 **Report Date:** 04/23/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1107411-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/18/18 08:00	04/18/18 12:53	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1107593-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

Method Blank Analysis
Batch Quality Control

Zinc, Total	ND	mg/l	0.01000	0.00341	1	04/18/18 14:35	04/19/18 12:39	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE

Project Number: 1787491

Lab Number: L1813173

Report Date: 04/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1107223-2								
Mercury, Total	90		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE

Project Number: 1787491

Lab Number: L1813173

Report Date: 04/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1107409-2 SRM Lot Number: D098-540					
Aluminum, Total	74	-	47-153	-	
Antimony, Total	155	-	6-194	-	
Arsenic, Total	105	-	83-117	-	
Barium, Total	86	-	82-118	-	
Beryllium, Total	93	-	83-117	-	
Cadmium, Total	95	-	82-117	-	
Calcium, Total	84	-	81-118	-	
Chromium, Total	92	-	83-119	-	
Cobalt, Total	97	-	84-116	-	
Copper, Total	101	-	84-116	-	
Iron, Total	91	-	60-140	-	
Lead, Total	96	-	82-117	-	
Magnesium, Total	82	-	76-124	-	
Manganese, Total	84	-	82-118	-	
Nickel, Total	96	-	82-117	-	
Potassium, Total	86	-	69-131	-	
Selenium, Total	104	-	78-121	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	88	-	74-126	-	
Thallium, Total	100	-	80-119	-	
Vanadium, Total	97	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE

Project Number: 1787491

Lab Number: L1813173

Report Date: 04/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1107409-2 SRM Lot Number: D098-540					
Zinc, Total	95	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1107411-2 SRM Lot Number: D098-540					
Mercury, Total	114	-	50-149	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE

Project Number: 1787491

Lab Number: L1813173

Report Date: 04/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1107593-2					
Aluminum, Total	100	-	80-120	-	
Antimony, Total	99	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Barium, Total	97	-	80-120	-	
Beryllium, Total	107	-	80-120	-	
Cadmium, Total	111	-	80-120	-	
Calcium, Total	89	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Cobalt, Total	98	-	80-120	-	
Copper, Total	103	-	80-120	-	
Iron, Total	104	-	80-120	-	
Lead, Total	105	-	80-120	-	
Magnesium, Total	98	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	102	-	80-120	-	
Potassium, Total	97	-	80-120	-	
Selenium, Total	105	-	80-120	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	100	-	80-120	-	
Thallium, Total	114	-	80-120	-	
Vanadium, Total	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE

Project Number: 1787491

Lab Number: L1813173

Report Date: 04/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1107593-2					
Zinc, Total	104	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1107223-3 QC Sample: L1813173-01 Client ID: MH-1 STORMWATER												
Mercury, Total	ND	0.005	0.00523	105		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1107409-3 QC Sample: L1813333-01 Client ID: MS Sample										
Aluminum, Total	16900	171	17200	**176**	Q	-	-	75-125	-	20
Antimony, Total	ND	42.7	28.7	**67**	Q	-	-	75-125	-	20
Arsenic, Total	0.582J	10.2	9.02	88		-	-	75-125	-	20
Barium, Total	69.8	171	195	**73**	Q	-	-	75-125	-	20
Beryllium, Total	1.40	4.27	4.49	**72**	Q	-	-	75-125	-	20
Cadmium, Total	ND	4.36	3.21	**74**	Q	-	-	75-125	-	20
Calcium, Total	158.	855	794	**74**	Q	-	-	75-125	-	20
Chromium, Total	14.6	17.1	27.4	75		-	-	75-125	-	20
Cobalt, Total	13.5	42.7	42.6	**68**	Q	-	-	75-125	-	20
Copper, Total	9.77	21.4	29.6	93		-	-	75-125	-	20
Iron, Total	18400	85.5	18400	**0**	Q	-	-	75-125	-	20
Lead, Total	7.47	43.6	36.0	**65**	Q	-	-	75-125	-	20
Magnesium, Total	3330	855	4000	78		-	-	75-125	-	20
Manganese, Total	141.	42.7	134	**0**	Q	-	-	75-125	-	20
Nickel, Total	25.0	42.7	53.5	**67**	Q	-	-	75-125	-	20
Potassium, Total	5200	855	6170	113		-	-	75-125	-	20
Selenium, Total	ND	10.2	8.62	84		-	-	75-125	-	20
Silver, Total	ND	25.6	21.2	83		-	-	75-125	-	20
Sodium, Total	163.J	855	853	100		-	-	75-125	-	20
Thallium, Total	ND	10.2	6.81	**66**	Q	-	-	75-125	-	20
Vanadium, Total	18.2	42.7	52.3	80		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1107409-3 QC Sample: L1813333-01 Client ID: MS Sample										
Zinc, Total	54.9	42.7	86.7	**74**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1107411-3 QC Sample: L1813341-01 Client ID: MS Sample										
Mercury, Total	0.046J	0.162	0.249	**153**	Q	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1107593-3 QC Sample: L1813173-01 Client ID: MH-1 STORMWATER										
Aluminum, Total	7.27	2	10.7	**172**	Q	-	-	75-125	-	20
Antimony, Total	0.00069J	0.5	0.4491	90		-	-	75-125	-	20
Arsenic, Total	0.00410	0.12	0.1237	100		-	-	75-125	-	20
Barium, Total	0.07426	2	1.964	94		-	-	75-125	-	20
Beryllium, Total	0.00038J	0.05	0.05307	106		-	-	75-125	-	20
Cadmium, Total	0.00034	0.051	0.05389	105		-	-	75-125	-	20
Calcium, Total	65.9	10	72.3	**64**	Q	-	-	75-125	-	20
Chromium, Total	0.01992	0.2	0.2197	100		-	-	75-125	-	20
Cobalt, Total	0.00523	0.5	0.4920	97		-	-	75-125	-	20
Copper, Total	0.02690	0.25	0.2784	101		-	-	75-125	-	20
Iron, Total	12.1	1	12.5	**40**	Q	-	-	75-125	-	20
Lead, Total	0.06023	0.51	0.5742	101		-	-	75-125	-	20
Magnesium, Total	14.2	10	24.0	98		-	-	75-125	-	20
Manganese, Total	0.2937	0.5	0.7603	93		-	-	75-125	-	20
Nickel, Total	0.01694	0.5	0.5172	100		-	-	75-125	-	20
Potassium, Total	4.30	10	14.6	103		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.117	98		-	-	75-125	-	20
Silver, Total	0.00017J	0.05	0.04615	92		-	-	75-125	-	20
Sodium, Total	12.9	10	23.2	103		-	-	75-125	-	20
Thallium, Total	ND	0.12	0.05894	**49**	Q	-	-	75-125	-	20
Vanadium, Total	0.01534	0.5	0.5054	98		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1107593-3 QC Sample: L1813173-01 Client ID: MH-1 STORMWATER									
Zinc, Total	0.1474	0.5	0.6599	102	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1107223-4 QC Sample: L1813173-01 Client ID: MH-1 STORMWATER						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1107409-4 QC Sample: L1813333-01 Client ID: DUP Sample						
Lead, Total	7.47	6.31	mg/kg	17		20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1107411-4 QC Sample: L1813341-01 Client ID: DUP Sample						
Mercury, Total	0.046J	0.049J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1107593-4 QC Sample: L1813173-01 Client ID: MH-1 STORMWATER					
Aluminum, Total	7.27	7.24	mg/l	0	20
Antimony, Total	0.00069J	0.00079J	mg/l	NC	20
Arsenic, Total	0.00410	0.00397	mg/l	3	20
Barium, Total	0.07426	0.07658	mg/l	3	20
Beryllium, Total	0.00038J	0.00046J	mg/l	NC	20
Cadmium, Total	0.00034	0.00033	mg/l	3	20
Calcium, Total	65.9	68.6	mg/l	4	20
Chromium, Total	0.01992	0.02049	mg/l	3	20
Cobalt, Total	0.00523	0.00536	mg/l	3	20
Copper, Total	0.02690	0.02635	mg/l	2	20
Iron, Total	12.1	12.3	mg/l	2	20
Lead, Total	0.06023	0.05794	mg/l	4	20
Magnesium, Total	14.2	14.6	mg/l	3	20
Manganese, Total	0.2937	0.3140	mg/l	7	20
Nickel, Total	0.01694	0.01666	mg/l	2	20
Potassium, Total	4.30	4.48	mg/l	4	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	0.00017J	0.00020J	mg/l	NC	20
Sodium, Total	12.9	13.3	mg/l	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1107593-4 QC Sample: L1813173-01 Client ID: MH-1 STORMWATER					
Thallium, Total	ND	0.00015J	mg/l	NC	20
Vanadium, Total	0.01534	0.01444	mg/l	6	20
Zinc, Total	0.1474	0.1429	mg/l	3	20

INORGANICS
&
MISCELLANEOUS

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491
Lab Number: L1813173
Report Date: 04/23/18

SAMPLE RESULTS

Lab ID: L1813173-02
Client ID: MH-1 SEDIMENT
Sample Location: 89 LASALLE AVE., BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 04/16/18 13:50
Date Received: 04/16/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.5		%	0.100	NA	1	-	04/17/18 09:36	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1107114-1 QC Sample: L1813163-01 Client ID: DUP Sample						
Solids, Total	35.5	36.3	%	2		20

Project Name: 89 LASALLE AVE. BCP SITE
Project Number: 1787491

Lab Number: L1813173
Report Date: 04/23/18

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(*)
L1813173-01A	Plastic 250ml HNO3 preserved	A	<2	<2	2.7	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1813173-01B	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813173-01C	Amber 1000ml unpreserved	A	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1813173-02A	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1813173-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1813173-02C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14)

*Values in parentheses indicate holding time in days

Project Name:	89 LASALLE AVE. BCP SITE	**Lab Number:**	L1813173
Project Number:	1787491	**Report Date:**	04/23/18

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).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE AVE. BCP SITE	**Lab Number:**	L1813173
Project Number:	1787491	**Report Date:**	04/23/18

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	89 LASALLE AVE. BCP SITE	**Lab Number:**	L1813173
Project Number:	1787491	**Report Date:**	04/23/18

REFERENCES

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

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; 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**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/17/18

ALPHA Job #: L1813173

Client Information
Client: Golder Associates
Address: 2430 N. Forest Rd. Suite 100
Phone: 716 204 5850
Fax:
Email: ptmartin@golder.com

Project Information
Project Name: 89 LaSalle BCP Site
Project Location: 89 LaSalle Ave, Buffalo, NY
Project #: 1787491
(Use Project name as Project #) ☐
Project Manager: Patrick Martin
ALPHAQuote #:

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

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

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

Billing Information
☐ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8270	tot. metals tot. HS 6020	TS						Sample Specific Comments	Total Bottles
13173-01	MH-1 stormwater	4/16/18	1345	water	PTM	2	1								
-02	MH-1 sediment	4/16/18	1350	Sed	PTM	1	1	1							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
Krysta M. Cline	4/16/18 16:16	Jon AL AAL	4/16/18 16:16
Jon AL AAL	4/16/18 16:40		4/17/18 0040

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

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

APPENDIX B

ANNUAL SITE INSPECTION FORMS & PHOTO LOG DOCUMENTATION

89 LaSalle Avenue
BUFFALO, NEW YORK
Site Management Plan

NYSDEC Site Number: C915283

SEMI-ANNUAL INSPECTION FORM

NOV. 2, 2017

Inspection Item Description	Frequency	Comments	Corrective Action (If Required)
Site Cover Systems: - Soil Cover - Asphalt Paved Areas - Concrete Sidewalks and other concrete structures - Other (if applicable) **Document specific locations and nature of condition issue if any observed.**	Semi-Annually	SOIL COVER IS IN GOOD CONDITION, FOOTPRINT OF FUTURE BLDG 1 IS UNDER CONSTRUCTION AND DISTURBED W/ PROPER EROSION CONTROL MEASURES IN PLACE → EXCELLENT CONDITION TOP COAT HAS BEEN INSTALLED ON 90% OF AREAS EXCELLENT CONDITION - NO ISSUES EXCELLENT CONDITION - NO ISSUES	LANDSCAPING & FINAL RESTORATION OF SOIL AREAS AROUND BLDG 1 WILL BE COMPLETED IN SPRING 2018
Stormwater – Manhole Discharge Sampling Location General Condition	Semi-Annually	COMPLETED @ MH-1 ON 11/2/17 AFTER ~0.4" RAINFALL NO SEDIMENT	N/A
Excavation Work Locations – General Conditions	Per Occurrence	SEE SOIL COVER DISCUSSION ABOVE FOR BLDG 1 CONSTRUCTION AREA	HAVE REMINDED LEGACY TO MAINTAIN SOIL EROSION CONTROL MEASURES THROUGH WINTER MONTHS

Patrick J. Morton
11/2/17

PROJECT TITLE: SITE MANAGEMENT PLAN: 89 LA SALLE AVE SITE – PRR SITE INSPECTION

PHOTO 1

Description: MH-1: Stormwater/sediment sample location

11/02/17

PHOTO 2

Description: Northeast corner of future Building 1, stabilized. Looking southeast

11/02/17

PHOTO 3 Description: West side of future Building 1, stabilized. Looking southwest 11/02/17	
PHOTO 4 Description: Access road and parking area between Buildings 4 and 5. Looking northeast 11/02/17	

PHOTO 5 Description: Access road and parking areas east of Building 2. Looking southeast 11/02/17	
PHOTO 6 Description: Access road to the west of future Building 1. Looking south 11/02/17	

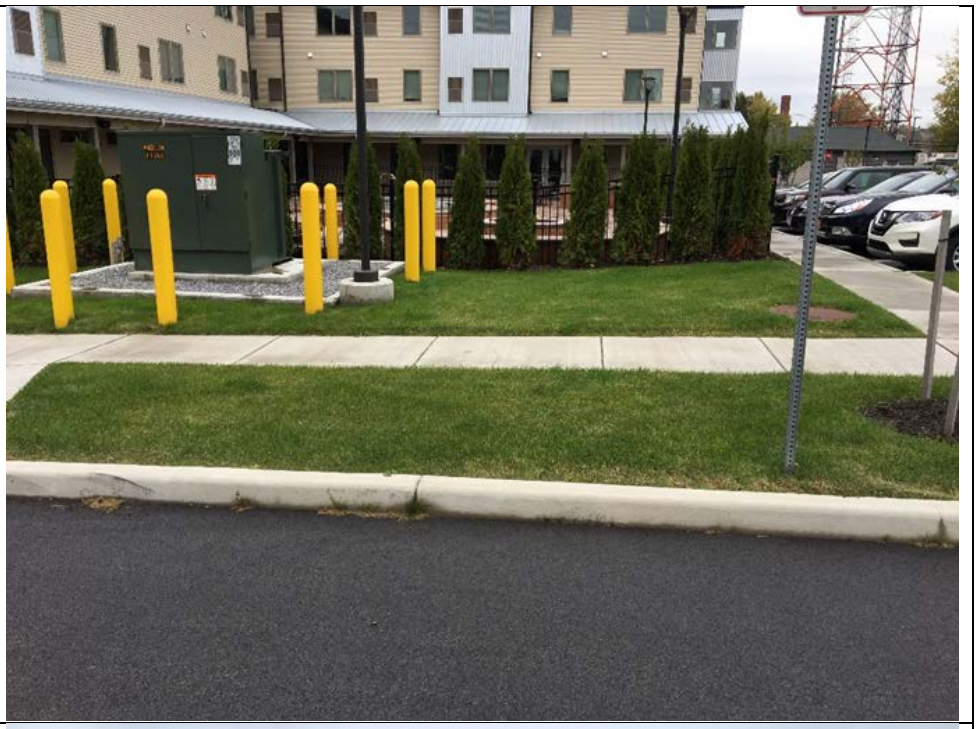
PHOTO 7 Description: Building 2 courtyard area, stabilized. Looking northeast 11/02/17	
PHOTO 8 Description: 11/02/17 Traffic circle at main entrance. Looking northwest	

PHOTO 9 Description: Building 5 courtyard area, stabilized. Looking northeast 11/02/17	
PHOTO 10 Description: Access road and parking areas north of Building 2. Looking east-northeast 11/02/17	

89 LaSalle Avenue
BUFFALO, NEW YORK
Site Management Plan

NYSDEC Site Number: C915283

SEMI-ANNUAL INSPECTION FORM

4/16/18

Inspection Item Description	Frequency	Comments	Corrective Action (If Required)
Site Cover Systems: - Soil Cover - Asphalt Paved Areas - Concrete Sidewalks and other concrete structures - Other (if applicable) **Document specific locations and nature of condition issue if any observed.**	Semi-Annually	SOIL COVER IN DEVELOPED PORTIONS OF SITE IS IN GOOD CONDITION. BLDG 1 IS UNDER CONSTRUCTION & DISTURBED W/ PROPER EROSION CONTROLS IN PLACE EXCELLENT CONDITION, TOP COAT ON PAVED AREAS ADJACENT TO BLDG 1 WILL BE COMPLETED IN JUNE 2018. NO ISSUES, EXCELLENT CONDITION	LANDSCAPING & FINAL RESTORATION OF SOIL AREAS AROUND BLDG 1 IS SCHEDULED FOR COMPLETION IN JUNE/JULY & DEPENDENT ON BUILDING PROGRESS.
Stormwater – Manhole Discharge Sampling Location General Condition	Semi-Annually	COMPLETED @ MH-1 ON 4/16/18 AFTER 1" + RAINFALL EVENT	SAMPLE EVENT COULD NOT BE CONDUCTED IN MARCH DUE TO COLD WEATHER & ABSENCE OF QUALIFYING RAIN EVENT
Excavation Work Locations – General Conditions	Per Occurrence	REFER TO SOIL COVER DISCUSSION ABOVE FOR BLDG 1 CONSTRUCTION AREA	LEGACY CONTINUES TO MAINTAIN EROSION CONTROL MEASURES AROUND CONSTRUCTION AREA

Patrick J. Morton
4/16/18

PROJECT TITLE: SITE MANAGEMENT PLAN: 89 LA SALLE AVE SITE – PRR SITE INSPECTION

PHOTO 1

Description: MH-1: Stormwater/sediment sample location

04/16/18

PHOTO 2

Description: Northeast corner of Building 1, under construction. Looking southeast

04/16/18

PHOTO 3 Description: Access road to the west of Building 1. Looking south 04/16/18	
PHOTO 4 Description: South side of Building 1, under construction. Looking northeast 04/16/18	

PHOTO 5 Description: South side of Building 1, under construction. Looking north 04/16/18	
PHOTO 6 Description: East side of Building 1, under construction. Looking northeast 04/16/18	

PHOTO 7 Description: Access road between Buildings 2, 4, and 5. Looking southeast. 04/16/18	
PHOTO 8 Description: Access road to the west of Building 5. Looking south 04/16/18	

PHOTO 9 Description: Building 5 courtyard area, stabilized. Looking northeast 04/16/18	
PHOTO 10 Description: Access road and parking area south of Buildings 4 and 5. Looking southeast 04/16/18	

PHOTO 11 Description: Access road and parking areas north of Building 2. Looking east-southeast 04/16/18	
PHOTO 12 Description: Parking areas southeast of Building 2. Looking south at Building 4. 04/16/18	

APPENDIX C

SITE C915283 SITE MANAGEMENT PLAN PERIODIC REVIEW REPORT – 2017/2018
ICS-ECS CERTIFICATION FORM

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

Site Details **Box 1**

Site No. **C915283**

Site Name 89 LaSalle Avenue Site

Site Address: 89 LaSalle Avenue Zip Code: 14212
City/Town: Buffalo
County: Erie
Site Acreage: 9.2

Reporting Period: March 30, 2017 to March 30, 2018

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

Box 2

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

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. C915283 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
79.70-2-11	Legacy LaSalle, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

1. Prohibition of groundwater use.
2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.
3. Soil Management for any future intrusive work.

79.70-2-17.1	Legacy LaSalle, LLC	Landuse Restriction Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan IC/EC Plan

1. Prohibition of groundwater use.
2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.
3. Soil Management for any future intrusive work.

79.70-2-18	Legacy LaSalle, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

1. Prohibition of groundwater use.
2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.
3. Soil Management for any future intrusive work.

portion of 79.70-2-16.11	Legacy LaSalle, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

1. Prohibition of groundwater use.
2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.
3. Soil Management for any future intrusive work.

portion of 79.70-2-17.2	Legacy LaSalle, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

1. Prohibition of groundwater use.
2. Land use restricted to Restricted Residential, Commercial or Industrial purposes.

3. Soil Management for any future intrusive work.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
79.70-2-11	Cover System
1. Monitoring and maintenance of the cover system.	
2. Semi-annual storm water and sediment monitoring.	
79.70-2-17.1	Cover System
1. Monitoring and maintenance of the cover system.	
2. Semi-annual storm water and sediment monitoring.	
79.70-2-18	Cover System
1. Monitoring and maintenance of the cover system.	
2. Semi-annual storm water and sediment monitoring.	
portion of 79.70-2-16.11	Cover System Cover System
1. Monitoring and maintenance of the cover system.	
2. Semi-annual storm water and sediment monitoring.	
portion of 79.70-2-17.2	Cover System
1. Monitoring and maintenance of the cover system.	
2. Semi-annual storm water and sediment monitoring.	

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
X	☐

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
X	☐

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. C915283

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 PATRICK J. MARTIN at 2430 N. FOREST AVE., GETZVILLE, NY
print name print business address

am certifying as OWNER (Owner or Remedial Party)

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

Patrick J. Martin 4/26/18
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification Date

IC/EC CERTIFICATIONS

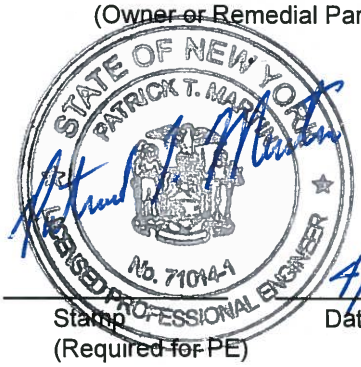
Box 7

Professional Engineer Signature

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

I PATRICK T. MARTIN at 2430 N. FOREST RD., GETZVILLE, NY,
print name print business address

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



Patrick T. Martin — Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

4/26/18 — Date