2021 Periodic Review Report

(Reporting Period: September 15, 2020 to September 15, 2021)

Location:

Franczyk Park
550 and 564 New Babcock Street, City of Buffalo, New York, 14206
NYSDEC Site No. B00174-9

Prepared for:

City of Buffalo
Office of Strategic Planning
Division of Environmental Affairs
65 Niagara Square Room 901
Buffalo, New York 14202

LaBella Project No. 2212554

November 2021

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716-551-6281 | f 716-551-6282

www.labellapc.com

Table of Contents

1.0 EXECUTIVE SUMMARY 1
1.1 Site Summary 1
1.2 Effectiveness of Remedial Program 2
1.3 Non-Compliance 2
1.4 Recommendations 2
2.0 SITE OVERVIEW 2
2.1 Site Background 2
3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM 2
4.0 INSTITUTIONAL/ENGINEERING CONTROLS (IC/EC) 3
4.1 Institutional Control Requirements and Compliance 3
4.2 Engineering Control Requirements and Compliance 3
4.2.1 Site Cover System 3
4.2.2 Interceptor Trench System 4
5.0 SITE MONITORING PLAN 4
5.1 Site Inspection and Certification 4
5.1.1 Site-Wide Inspection 5
5.1.2 IC/EC Certification 5
5.2 Groundwater Monitoring 5
5.2.1 Groundwater Monitoring Procedures 5
5.2.2 Groundwater Monitoring Results 6
5.2.3 Data Usability Summary Report 6
6.0 CORRECTIVE ACTIONS 6
7.0 CONCLUSIONS AND RECOMMENDATIONS 7
8.0 LIMITATIONS 8
9.0 REFERENCES 9

TABLE OF CONTENTS

Continued

Figures	Figure 1 – Site Location Map Figure 2 – Site Map Figure 3 – Groundwater Contours
Tables	Table 1 – Summary of Groundwater Analytical Results
Appendix 1	Inspection Form and Field Logs
Appendix 2	Photographs
Appendix 3	Site Management Periodic Review Report-Institutional and Engineering Controls Certification Form
Appendix 4	Laboratory Analytical Report
Appendix 5	Data Usability Summary Report
Appendix 6	MW-05R Installation Documentation
Appendix 7	Monitoring Well Concentration Versus Time Plots for Select Metals

1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is a required element of the approved Site Management Plan (SMP) for the Franczyk Park Site located at 550 and 564 Babcock Street in the City of Buffalo, Erie County, New York (hereafter referred to as the "Site"). This PRR was prepared on behalf of the City of Buffalo to summarize the post remedial status of the New York State Department of Environmental Conservation (NYSDE) Environmental Restoration Program (ERP) Site No. B00174. This PRR and associated Institutional and Engineering Controls (IC/EC) Certification Form have been completed for the post-remedial activities at the Site for the reporting period from September 15, 2020 to September 15, 2021.

1.1 Site Summary

The Site is a public park composed of two adjoining parcels totaling approximately 15.49 acres, located at 550 and 564 New Babcock Street in the City of Buffalo, Erie County, New York. The Site is bound by Lyman Street to the north, Fleming Street to the south, New Babcock Street to the east, and Lewis Street to the west. The Site area is characterized as a mixture of commercial, industrial, and residential.

The City of Buffalo entered into a State Assistance Contract (SAC) with the NYSDEC to complete a Site Investigation/Remedial Alternatives Report (SI/RAR) for the Site. The Site Investigation, performed in the fall of 2003 and the spring of 2004, identified contaminated subsurface soil/fill throughout the Site as well as a minor amount of contaminated surface soil/fill in some high traffic areas. Following the completion of the SI, an SI/RAR was prepared. Based on the SI/RAR, a Proposed Remedial Action Plan (PRAP) was prepared. The PRAP was finalized in the March 2005 Record of Decision (ROD) following receipt of public input. A Remedial Action Work Plan (RAWP) was prepared in March 2006 to describe the specific remedial activities that were propose for the Site. December 2006, the City of Buffalo entered into an agreement with a contractor to implement the RAWP. The remedial activities completed at the Site included excavation and off-Site disposal of two hazardous contaminated soil/fill areas, installation of a groundwater interceptor trench along Fleming Street, demolition and replacement of all athletic facilities and the playground to facilitate the installation of the cover system, augmentation of the existing cover soil to achieve a minimum 24-inch cover thickness, and covering non-vegetated areas by a paving system of asphalt or concrete of at least six inches in thickness.

On June 15, 2016, a Certificate of Completion was issued by the NYSDEC indicating approval of the Final Engineering Report and satisfactory completion of the remediation phase of the environmental restoration project.

Subsequent completion of the remedial work, some contamination remained in the subsurface of the Site, referred to as "remaining contamination." A SMP was prepared to manage remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The SMP addresses the means for implementing the ICs and ECs that are required by the Environmental Easement for the Site.

1.2 Effectiveness of Remedial Program

Based on a recent inspection of the Site, the Site cover system and the groundwater interceptor trench system are intact and functioning as designed on the Site. Additionally, the groundwater sampling results indicate no semi-volatile organic compounds (SVOCs) were detected in the groundwater samples collected in August 2021 at concentrations exceeding NYSDEC standards. Limited metals parameters were identified in the groundwater samples collected from the Site at concentrations exceeding NYSDEC standards.

1.3 Non-Compliance

No areas of non-compliance regarding the major elements of the SMP were identified during the preparation of this PRR.

1.4 Recommendations

Overall, the remedial program is viewed to be effective in achieving the remedial objectives for the Site. No changes to the SMP or the frequency of PRR submissions are recommended at this time.

2.0 SITE OVERVIEW

The Site is a public park encompasses approximately 15.49-acre area and is located at 550 and 560 Babcock Street in the City of Buffalo, Erie County, New York (see Figure 1). As shown in Figure 2, the Site is bounded by Lyman Street to the north, Fleming Street to the south, New Babcock Street to the east, and Lewis Street to the west. Figure 2 depicts the Site boundaries overlain on a current aerial image.

2.1 Site Background

The Site was first developed by Buffalo Fertilizing Chemicals Works, (L.L. Crocker) as an agricultural fertilizer manufacturing facility. These manufacturing operations lasted almost a century while the facility underwent a number of name changes during its tenure as a fertilizer manufacturing facility. The parcel adjoining the northwest corner of the Site was sold to the Thaddeus Joseph Dulski Community Center, Inc. in 1975. The following year, the remainder of the Site was sold to the Industrial Refining Corporation and then to Car Salvage World in 1977. The Site was used as an automobile junk yard in the final years until Car Salvage World went Bankrupt in 1981. The Brondy Real Estate Co. acquired the Site and later sold it to the Site of Buffalo in 1984. The City of Buffalo redeveloped the Site into a park in 1987.

3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM

As detailed below in Section 5.1.1, the Site cover system, groundwater interceptor trench, and groundwater monitoring wells were inspected during the annual periodic review conducted August 19, 2021. Additionally, annual groundwater samples were collected and submitted for laboratory analysis from four on-Site groundwater monitoring wells on August 19, 2021. Based on this inspection, the engineering controls are generally intact and functioning effectively; the cover system and groundwater interceptor trench system are intact and functioning effectively throughout the Site.

4.0 INSTITUTIONAL/ENGINEERING CONTROLS (IC/EC)

4.1 Institutional Control Requirements and Compliance

In accordance with the SMP, a series of Institutional Controls (ICs) have been established for the Site in the form of Site restrictions. Adherence to these ICs is required by the Environmental Easement and implemented under the SMP. The ICs include the following:

- Compliance with the Environmental Easement and the SMP by Owner and the Owner's successors and assigns;
- All Engineering Controls (ECs) must be operated and maintained as specified in the SMP;
- All ECs on the Site must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management of the Site must be reported at the frequency and in a manner defined in the SMP; and
- On-site environmental monitoring devices, including but not limited to, groundwater monitoring wells, must be protected and replaced as necessary to ensure the devices function in the manner specified in the SMP.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The Site has a series of ICs in the form of restrictions. Site restrictions that apply are as follows:

- The Site may only be used for public park use provided that the long-term ECs and ICs included in the SMP are employed;
- The Site may not be used for a higher level of use, such as unrestricted use without additional remediation and amendment of the Environmental Easement;
- All future activities on the Site that will disturb the cover system and/or remaining contaminated material must be conducted in accordance with the SMP;
- The use of groundwater underlying the Site is prohibited without treatment rendering it safe for intended use;
- Vegetable gardens and farming on the Site are prohibited; and
- The owner of the Site is required to provide an IC/EC certification, prepared and submitted by a professional engineer or environmental professional acceptable to the NYSDEC annually or for a period to be approved by the NYSDEC, which will certify that the ICs and ECs put in place are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC, and, 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.

LaBella has concluded that the ICs are in force and are being adhered to with respect to the condition and use of the Sites and activities conducted thereon.

4.2 Engineering Control Requirements and Compliance

4.2.1 Site Cover System

Exposure to the remaining contamination in soil/fill at the Site is prevented by cover systems placed over the Site. The cover system is comprised of a minimum of 24 inches of clean soil cover, or a

combination of asphalt or concrete pavement and clean soil cover that is a minimum 24 inches thick over all "active" areas of the Site, and a minimum of 12 inches over all "passive" areas. The cover system is a permanent control and quality and integrity of this system is inspected on an annual basis. The frequency of inspections will not change without the prior approval of the NYSDEC.

The final cover system shall be observed by traversing the cover on foot and making appropriate observations, notes and photographic records. The overall integrity of the final cover system on the Site will be assessed during inspections. The following characteristics shall be inspected during the observation of the cover system:

- Sloughing of slopes;
- Large cracks in the soil or paved cover surface;
- Settlement of the cover system;
- Erosion;
- Distressed vegetation/turf;
- Damaged to park access controls; or
- Vehicular rutting

Repairs will be performed at all areas exhibiting deficiencies or potential problems. Remedies for deficiencies are described in the SMP.

4.2.2 Interceptor Trench System

Exposure to remaining contamination in groundwater at the Site is prevented by a groundwater interceptor trench installed along Fleming Street and Lewis Street. The groundwater interceptor trench is located along the downgradient boundary of the Site, parallel to Fleming Street and Lewis Street. A groundwater interceptor trench was also installed in between the northwestern playground and the Dulski Community Center to the north and connected to the existing interceptor trench along Lewis Street. Groundwater collected in the trench system is conveyed to the Buffalo Sewer Authority sewer system. The interceptor trench system is a permanent control and quality and integrity of this system is inspected on an annual basis.

5.0 SITE MONITORING PLAN

5.1 Site Inspection and Certification

This PRR provides the information necessary to document the IC/EC certification. The certification primarily consists of a Site inspection to complete the NYSDEC "Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form" and confirm the IC/ECs:

- Are in place, performing properly, and remain effective;
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with the SMP for such controls; and
- That access is available to the Site to evaluate continued maintenance of such controls.

The Site inspection includes the inspection of the following components in accordance with the SMP.

- Final cover system;
- Interceptor trench;
- Site access controls; and
- Site monitoring wells

5.1.1 Site-Wide Inspection

Annual site-wide inspections along with annual monitoring of the performance of the remedy is conducted for the first 30 years post completion. An annual inspection was conducted by LaBella on August 19, 2021, which included traversing the Site on foot to observe current conditions. The Site is developed with a park, including vegetated soil cover at the ground surface, baseball diamonds, basketball courts, soccer fields, a playground area, and asphalt pedestrian/bicycle trails and parking areas. At the time of the Site inspection the cover systems were observed to be generally in good condition, intact, and functioning as intended. Low areas of mulch were observed in portions of the playground area. Several large boulders were observed missing along Fleming Street. The fencing along the north portion of the park was generally observed to be intact and functioning as intended. The interceptor trench appeared to be in good condition and functioning as intended. The Site monitoring wells were covered with approximately six inches of soil and grass; once soil covering the wells was removed the wells were observed to be in good condition. The Site Inspection Form is included in Appendix 1. Appendix 2 includes photographs taking during the Site Inspection.

5.1.2 IC/EC Certification

The NYSDEC's IC/EC Certification Form was completed in its entirety as all ICs/ECs are in place for the Site per the SMP. Appendix 3 includes the NYSDEC "Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form."

5.2 Groundwater Monitoring

The SMP specifies that groundwater sampling shall be performed at four down-gradient monitoring wells (MW-03, MW-05R, MW-07, and MW0-8) on an annual basis and include analysis of Target Compound List (TCL) SVOCs and Target Analyte List (TAL) metals. Sampling of the monitoring wells is to be conducted using low-flow sampling procedures. Trends in contaminant levels in groundwater are evaluated to determine if the remedy continues to be effective in achieving remedial goals.

5.2.1 Groundwater Monitoring Procedures

The annual groundwater monitoring activities were performed in general accordance with the SMP and included the following.

- Measure depth of groundwater from the top of the well riser to determine groundwater elevations for the sampled groundwater monitoring wells;
- Collection of groundwater samples from monitoring wells MW-03, MW-05R, MW-07, and MW-08 using low-flow sampling techniques;
- Record field parameters (pH, oxidation-reduction potential, temperature, turbidity, and specific conductivity) at each monitoring well during the low-flow sampling;
- Submit groundwater samples for laboratory analysis for TCL SVOCs and TAL Metals to Alpha Analytical, Inc., a New York State Department of Health (NYSDEC) environmental laboratory approval program (ELAP)-certified laboratory;
- Collection and analysis of a blind duplicate sample "Field Duplicate" from MW-07;

- Inspection and documentation of the structural integrity of the monitoring wells; and
- Containerize groundwater generated during the sampling and discharge to the groundwater interceptor trench collection system

Groundwater monitoring well low-flow sampling logs are included in Appendix 1.

5.2.2 Groundwater Monitoring Results

The analytical results for the groundwater samples are summarized on Table 1. The laboratory analytical results are compared to NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (AWQS) dated June 1998.

SVOCs were detected in the groundwater samples collected and submitted for laboratory analysis from MW-03 and MW-05R (July). SVOCs in MW-03 were detected at concentrations below NYSDEC TOGS 1.1.1 AWQS. Six SVOCs were detected in the groundwater sample collected from MW-05R (July) at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS. No SVOCs were detected in the groundwater sample from MW-05R during the August sampling event.

Metals were detected in each of the groundwater samples with two or more parameters in each sample detected at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS. Parameters detected in each groundwater sample at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS are listed below.

- MW-03: Beryllium, iron, lead, magnesium, manganese, selenium, and sodium
- MW-05R (July): Magnesium and sodium
- MW-05R (August): Magnesium, manganese, and sodium
- MW-07: Iron, lead, magnesium, manganese, sodium, and thallium
- MW-08: Iron, magnesium, and manganese
- Field Duplicate (MW-07): Antimony, iron, and manganese

Historical metals parameter concentration trends are plot for each monitoring well on graphs included in Appendix 7. The laboratory analytical reports are included in Appendix 4.

The groundwater elevations within each monitoring well were measured prior to sampling and are indicated on Figure 3.

5.2.3 Data Usability Summary Report

Data Validation Services completed the third-party data validation of the groundwater sample analytical results. The Data Usability Summary Report (DUSR) prepared by Data Validation Services is included in Appendix 5. The data validator indicated the results for the samples are usable either as reported or with minor qualification/edit. Data completeness, representativeness, reproducibility, and comparability are acceptable.

6.0 CORRECTIVE ACTIONS

Corrective actions conducted during this monitoring period included the replacement of groundwater monitoring well MW-05.

During previous Site inspections groundwater monitoring well MW-05 was not able to be located and was assumed to have been accidentally buried. The City of Buffalo Department of Public Works retained LaBella to install a replacement groundwater monitoring well for MW-05. On June 8, 2021, LaBella mobilized to the Site and completed the installation of replacement groundwater monitoring well MW-05R. Monitoring well installation activities followed the Excavation Work Plan (EWP), Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) included within the SMP. The location of MW-05R was determined in concurrence with the City of Buffalo and the NYSDEC.

A track-mounted Geoprobe® System equipped with 4 ¼ inch hollow stem auger was utilized to install a two-inch PVC groundwater monitoring well. MW-05R was installed at a depth of 12 feet below ground surface. MW-05R consists of five feet of 0.01-inch slotted well screen connected to a length of PVC riser to proximate the ground surface. The well was finished with a flush mount protective steel casing and concrete well pad. The soil boring and well construction logs are included in Appendix 6.

During drilling activities CAMP equipment, including a DustTrak II Aerosol Monitor and a photoionization detector, was employed downgradient of the work area to monitor dust particulate and total organic vapor (TOV) levels. No dust particulate or TOV level contraventions of CAMP requirements were recorded during the groundwater monitoring well installation activities. CAMP data logs are included in Appendix 6. Soil auger cuttings generated during the installation of the groundwater monitoring well were placed in a 55-gallon drum for off-Site disposal. The auger cutting were transported by Environmental Service Group, Inc. to American Recyclers Company for off-Site disposal. The auger cutting disposal documentation is included in Appendix 6.

On June 11 and 23, 2021 MW-05R was developed until dry conditions were encountered. On July 7, 2021 MW-5R was sampled via low-flow techniques. The groundwater samples were submitted to Alpha Analytical, Inc. for laboratory analysis for TCL SVOCs and TAL Metals. The laboratory analytical results for MW-05R are summarized in Table 1 and discussed in Section 5.2.2 above. Development and purge water was containerized and discharged to the groundwater interceptor trench system. Groundwater monitoring well development and sampling logs are included in Appendix 1.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Annual inspection of the Site was performed on August 19, 2021 by LaBella Associates, DPC as prescribed in the SMP. As a result of this inspection, LaBella has determined that the Site is in compliance with the elements of the SMP.

As reflected by the signed Institutional and Engineering Controls Certification Form (Appendix 3), LaBella has concluded that:

- The required EC/ICs are in place, are performing properly, and remain effective;
- The SMP is being implemented; and
- The remedy continues to be protective of public health and the environment.

Based on the results of the annual groundwater monitoring, SVOCs were detected in MW-05R during the July sampling event at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS; however, SVOCs were not detected in the groundwater sample from MW-05R collected in August. SVOCs were not detected in remaining groundwater samples at concentrations exceeding NYSDEC TOGS 1.1.1

AWQS. Metals parameters exceeding NYSDEC TOGS 1.1.1 AWQS were identified in each groundwater sample analyzed. The SMP for the Site indicates that antimony, arsenic, beryllium, lead nickel, and selenium were previously identified in Site groundwater at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS. Of these parameters only beryllium, lead, and selenium in MW-03 and antimony and lead in MW-07 were detected at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS in the groundwater samples collected during this reporting period. Additional metals parameters including iron, magnesium, manganese, thallium, and sodium were detected in one or more of the groundwater samples during this reporting period at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS. The SMP indicates that iron, magnesium, manganese, and sodium were previously detected at the Site at concentrations exceeding NYSDEC TOGS 1.1.1 AWQS and are commonly encountered in uncontaminated, natural environmental and are associated with groundwater aesthetics rather than toxicity.

LaBella recommends the following:

- Additional wood chips should be added to low areas within the playground areas;
- No changes to the inspection, reporting or certification frequency prescribed for the Site; and
- Groundwater monitoring should continue to be performed annually.

8.0 LIMITATIONS

The conclusions presented in this report are based on information gathered in accordance with generally acceptable professional consulting principles and practices. All conclusions reflect observable conditions existing at the time of the Site inspection. Information provided by outside sources (individuals, agencies, laboratories, etc.) as cited herein, was used in the assessment of the Site. The accuracy of the conclusions drawn from this assessment is, therefore, dependent upon the accuracy of information provided by these sources. Furthermore, LaBella is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based upon the facts currently available with the limits of the existing data, scope of services, budget and schedule. To the extent that more definitive conclusions are desired by the Client than are warranted by the current available facts, it is specifically Labella's' intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action expect where explicitly stated as such. LaBella makes no warranties, expressed or implied including without limitation, warranties as to merchantability or fitness of a particular purpose. Furthermore, the information provided in this report is not be construed as legal advice.

This assessment and report have been completed and prepared on behalf of and for the exclusive use of the City of Buffalo. Any reliance on this report by a third party is at such party's sole risk.

9.0 REFERENCES

DER-10/Technical Guidance for Site Investigation and Remediation, NYSDEC, May 3, 2010

Site Management Plan, Franczyk Park Site Erie County, New York; KHEOPS Architecture, Engineering & Survey, DPC, Februruay 2015

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FIGURES

Path: I:\Buffalo, City of\2212554 - Multiple Sites Annual Monitoring\Reports\Franczyk Park\DIG\Maps\MXD\2021_09\Fig1_SiteLocation_Map.mxd

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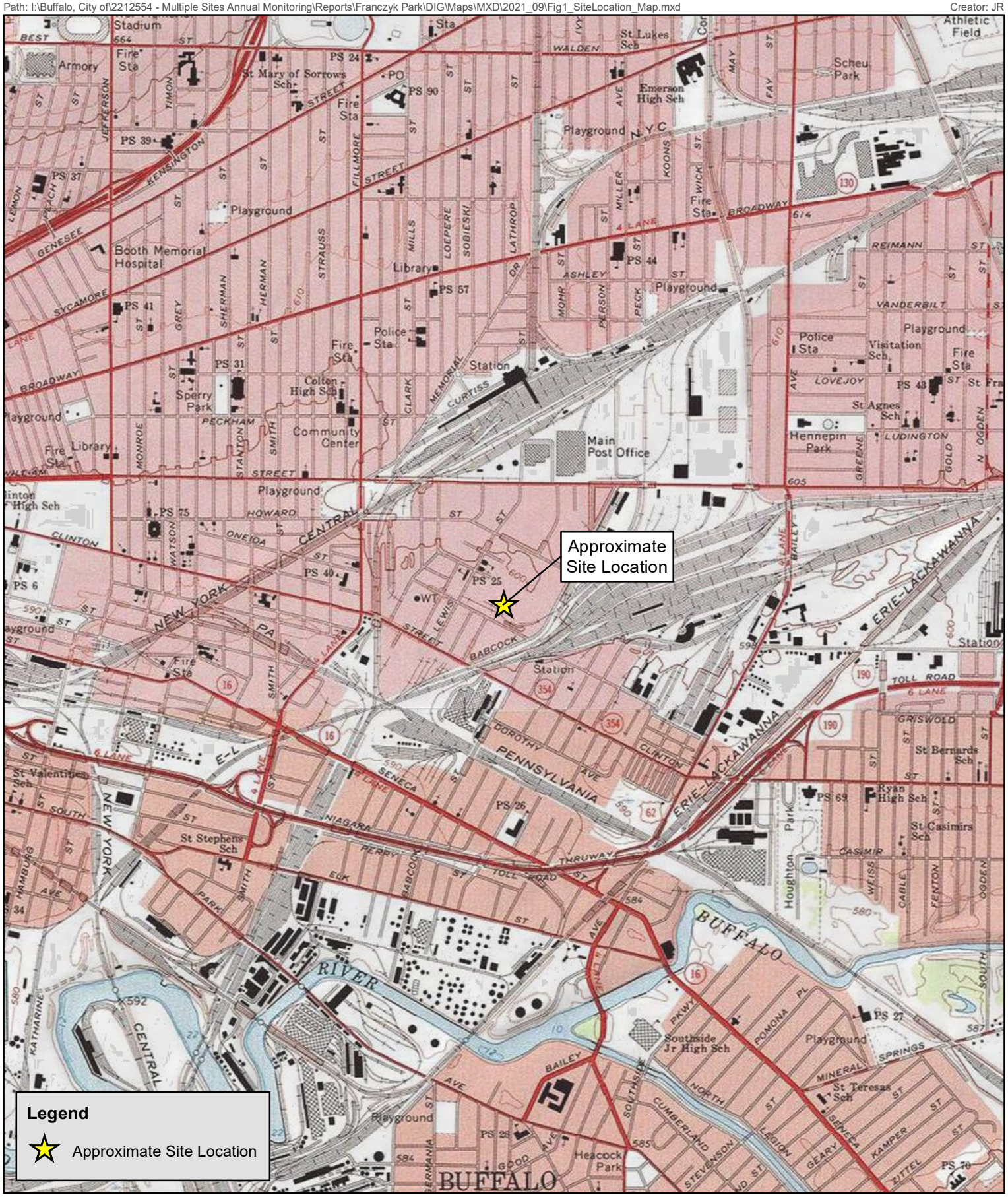

PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:
2212554 **Figure 1** 10/14/2021	Site Location Map	2021 Periodic Review Report 550 & 564 New Babcock Street, Buffalo, New York NYSDEC Site No. B00174-9

LaBella
Powered by partnership.

Data Source: Erie County 2020; LaBella 2021; USGS, National Geographic, i-cubed 2019.

Path: I:\Buffalo, City of\2212554 - Multiple Sites Annual Monitoring\Reports\Franczyk Park\DIG\Maps\MXD\2021_09\Fig2_SiteInvestigation_Map.mxd

Creator: EG

PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:
2212554 **Figure 2** 10/14/2021	Site Map	2021 Periodic Review Report 550 & 564 New Babcock Street, Buffalo, New York NYSDEC Site No. B00174-9

N

0 50 100 Feet

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Data Source: Bing Maps; Erie County 2020; LaBella 2021.

PROJECT # / DRAWING # / DATE:	DRAWING NAME:	PROJECT:	
2212554 **Figure 3** 10/14/2021	Groundwater Contours Map	2021 Periodic Review Report 550 & 564 New Babcock Street, Buffalo, New York NYSDEC Site No. B00174-9	N 0 50 100 Feet LaBella Powered by partnership.

Data Source: Bing Maps; Erie County 2020; LaBella 2021.

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TABLES

TABLE 1
SUMMARY OF ANNUAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FRANCZYK PARK 2021 PRR
CITY OF BUFFALO, NEW YORK
(Detected Analytes Only)

MONITORING LOCATIONS	MW-03	MW-05R	MW-05R	MW-07	MW-08	Field Duplicate	NYSDEC TOGS 1.1.1 AWQS
Collection Date	8/19/2021	7/7/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021	
Semi-Volatile Organic Compounds (µg/L)							
Benzo(a)anthracene	-	0.06 J	-	-	-	-	0.002
Benzo(a)pyrene	-	0.05 J	-	-	-	-	ND
Benzo(b)fluoranthene	-	0.08 J	-	-	-	-	0.002
Benzo(k)fluoranthene	-	0.09 J	-	-	-	-	0.002
Chrysene	-	0.07 J	-	-	-	-	0.002
Benzo(g,h,i)perylene	-	0.11	-	-	-	-	NS
Fluoranthene	0.02 J	0.06 J	-	-	-	-	50
Fluorene	0.02 J	-	-	-	-	-	50
Phenanthrene	0.07 J	0.03 J	-	-	-	-	50
Dibenzo(a,h,)anthracene	-	0.11	-	-	-	-	NS
Indeno(1,2,3-cd)pyrene	-	0.11	-	-	-	-	0.002
2-Methylnaphthalene	-	0.06	-	-	-	-	NS
Pyrene	-	0.02 J	-	-	-	-	50
Naphthalene	-	0.19	-	-	-	-	10
Di-n-butyl phthalate	-	0.68 J	-	-	-	-	50
Metals (mg/L)							
Aluminum	204	0.033	0.0352	3.75 J	0.0217	0.377 J	NS
Antimony	-	-	0.00070 J	0.00051 J	-	0.00472	0.003
Arsenic	0.00867	-	0.00113	0.01208 J	0.00277	0.00542 J	0.025
Barium	0.08529	0.057	0.04496	0.06541 J	0.1219	0.3489 J	1
Beryllium	0.00762	-	-	0.00028 J	-	-	0.003
Cadmium	0.0007	-	-	0.00043 J	-	0.00007 J	0.005
Calcium	410	176	144	440 J	390	250 J	NS
Chromium	0.03668	-	0.00086 J	0.00744 J	0.00112	0.00153 J	0.05
Cobalt	0.04548	-	0.00116 J	0.01387 J	0.00089	0.00197 J	NS
Copper	0.01077	-	0.00074 J	0.02215 J	0.00116	0.00487 J	0.2
Iron	932	0.024	0.167	29.0 J	12.3	8.24 J	0.3
Lead	0.03726	-	-	0.02833 J	0.01001	0.00316 J	0.025
Magnesium	479	151	164	84.0 J	51.9	25.7 J	35
Manganese	15.35	0.294	0.5539	5.298 J	0.9367	0.735 J	0.3
Mercury	0.00009 J	-	-	0.00011 J	-	-	0.0007
Nickel	0.0747	0.002	0.00227	0.01151 J	0.00476	0.00273 J	0.1
Potassium	127	13.6	8.99	21.6 J	20.4	12.5 J	NS
Selenium	0.015	-	-	-	-	0.0086	0.01
Sodium	92.7	68.2	66.3	36.6 J	9.1	13.2 J	20
Thallium	-	-	0.00042 U	0.00057 J	-	0.00022 U	0.0005
Vanadium	0.06358	-	-	0.00813 J	-	0.00321 J	NS
Zinc	0.259	0.005	0.00694 J	0.08874	0.04348	0.01734 J	2

NYSDEC TOGS 1.1.1 AWQS = New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)

mg/L = Milligrams per liter

µg/L = Micrograms per liter

NS - Indictes the no regulatory value is noted within the NYSDEC TOGS 1.1.1 AWQS

"-" - Indicates no detection

Shaded = Value exceedes NYSDEC TOGS 1.1.1 AWQS

J = Estimated value. The target analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

APPENDIX 1

Inspection Form and Field Logs

SITE INSPECTION FORM
FRANCZYK PARK

Property Name: Franczyk Park Inspection Date: 8/19/2021

Property Address: 564 Babcock Street

City: Buffalo State: NY Zip Code: 14206

Property ID: (Tax Assessment Map)

Section: 112.17 Block: 1 Lot(s): 10 and 11

Total Acreage: [redacted] acres
15.49

Weather (during inspection): Temperature: 81°F Conditions:
Humid, early morning cloud coverage to sun.

SIGNATURE: Heather Geoghegan

The findings of this inspection were discussed with appropriate personnel, corrective actions were identified and implementation was mutually agreed upon:

Inspector: Heather Geoghegan Date: 8/19/2021

Next Scheduled Inspection Date: _____

COVER & VEGETATION

	Yes	No
4. Final cover in acceptable condition?	X	
Is there evidence of sloughing, erosion, ponding or settlement?		X
Is there evidence of unintended traffic; rutting?		X
Is there evidence of distressed vegetation/turf?		X
5. Final cover sufficiently covers soil/fill material?	X	
Are there cracks visible in the soil or pavement?		X
Is there evidence of erosion in the stormwater channels or swales?		X
Is the synthetic erosion control fabric visible or damaged in the playground and/or athletic field area?		X

INTERCEPTOR TRENCH AND MONITORING WELLS

	Yes	No
6. Interceptor trench in acceptable condition?		
Are the cleanout caps secured and not buried?		X
Are the interceptor pipes obstructed (check the manholes where the interceptor trench connects to the sanitary sewer)		X

What is the condition of the monitoring wells?

Monitoring wells w/exception to MW-5R where buried beneath 6-8" of dirt & vegetative growth.

- Area was completely cleared in an area approximately 2' in circumferance

ACTIVITY ON SITE

	Yes	No
7. Any activity on site that disturbed the soil cover?	X	____

Disturbed soil to landscape cover in Playground area.

ACCESS CONTROLS

	Yes	No
1. Is access controlled by barriers (i.e. fencing, boulders, etc?	X	____
Are there sections of the access controls damaged or missing?	X	____

15 Boulders are missing.

2. Is there evidence of the operation of vehicles on the site?	____	X
Is there evidence of damage to the cover or access controls resulting from vehicle use on the project site?	____	X

ADDITIONAL FACILITY INFORMATION

Has there been any any development on or near the site? (Specify size and type: e.g., residential, 40 acres, well and septic)

COMMENTS

Item #

GROUNDWATER COLLECTION AND SAMPLE LOG

LaBella
Powered by partnership.
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

WELL I.D.: MW-5R

Project Name: Franczyk Park well Replacement
Location: 5164 Babcock Street, Buffalo, NY
Project No.: 2211700
Sampled By: Jessica Dombrowski
Date: 12/11/2021 - Developed
Weather: Sun, 78°F

PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 12 Ft.
Static Water Level: 1.2 ft
One Well Volume: 0.168 Gallons

PURGE AND SAMPLING METHOD

☑ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	pH	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	ORP/Eh	Water Level	Comments
Initial	--							Slightly turbid
1110	1.0							well purged dry

Total 1.0 Gallons Purged

Purge Time Start: 1030
Purge Time End: 1100

WELL SAMPLING

Sample I.D.:
No. of Containers:
Sample Time:
Sample Preservation:

Sampled For:
☐ TCL VOCs - 8260
☐ TCL SVOCs - 8270
☐ TCL Pesticides
☐ TAL Metals
☐ PCBs
☐ Other:

OBSERVATIONS

Notes: Well was installed in Boring # SB-

Recharge Behavior: ☐ Fast ☐ Moderate ☐ Slow ☐ Purged Dry

GROUNDWATER COLLECTION AND SAMPLE LOG

LaBella
Powered by partnership.
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

WELL I.D.: MW-5R

Project Name: Francyk Park Well Replacement
Location: 564 Babcock Street, Buffalo, NY
Project No.: 2211700
Sampled By: Jessica Dombrowski
Date: 6/23/2021 - Developed
Weather:

PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 12 Ft.
Static Water Level: 6.0 ft
One Well Volume: 0.84 Gallons

PURGE AND SAMPLING METHOD

☑ Bailer – Type:
Sampling Device:
☐ Pump – Type:
Pump Rate:

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	pH	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	ORP/Eh	Water Level	Comments
Initial	--							Clear
1315	0.84							Slightly Turbid
1330	1.68							Turbid
1345	2.52							Turbid
1400	3.00							Turbid - Purged Dry

Total 3.0 Gallons Purged

Purge Time Start: 1315
Purge Time End: 1400

WELL SAMPLING

Sample I.D.:
No. of Containers:
Sample Time:
Sample Preservation:

Sampled For:
☐ TCL VOCs - 8260
☐ TCL SVOCs - 8270
☐ TCL Pesticides
☐ TAL Metals
☐ PCBs
☐ Other:

OBSERVATIONS

Notes: Well was installed in Boring # SB-

Recharge Behavior: ☐ Fast ☐ Moderate ☐ Slow ☐ Purged Dry

GROUNDWATER COLLECTION AND SAMPLE LOG

LaBella
Powered by partnership.
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

WELL I.D.: MW-5R

Project Name: Franczyk Park Well Replacement
Location: 564 Babcock Street, Buffalo, NY
Project No.: 2211700
Sampled By: Jessica Dombrowski
Date: 7/7 /2021
Weather:

PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 12 Ft.
Static Water Level: 4.27 ft
One Well Volume: 1.022 Gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type:
Sampling Device:
☑ Pump – Type:
Pump Rate:

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	pH	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	ORP/Eh	Water Level	Comments
Initial	--	7.12	21.3	1.958	5.05	57.1		Clear
1035	0.25	7.28	18.0	1.850	9.56	44.3		" "
1040	0.5	7.29	16.8	1.802	11.00	49.2		" "
1045	0.75	7.24	17.0	1.806	11.16	52.7		" "
1050	1.0	7.29	16.7	1.821	10.30	43.0		" "
1055	1.25	7.26	16.1	1.809	8.84	44.0		" "
1100	1.5	7.23	15.7	1.787	9.86	43.3		" "

Total 1.5 Gallons Purged

Purge Time Start:
Purge Time End: 1100

WELL SAMPLING

Sample I.D.: MW-5R
No. of Containers: 3
Sample Time: 1100
Sample Preservation: HNO- Metals

Sampled For:
☐ TCL VOCs - 8260
☑ TCL SVOCs - 8270
☐ TCL Pesticides
☑ ~~TAL~~ Total Metals
☐ PCBs
☐ Other:

OBSERVATIONS

Notes: Well was installed in Boring # SB- MW-5R

Recharge Behavior: ☐ Fast ☑ Moderate ☐ Slow ☐ Purged Dry

GROUNDWATER COLLECTION AND SAMPLE LOG

LaBella
Powered by partnership
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

WELL I.D.: MW-5R

Project Name: Franczyk Park
Location: Franczyk Park City of Buffalo
Project No.: 2210554
Sampled By: Heather Geoghegan
Date: 8/19/2021
Weather: 80°F Humid Clouds

PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 11.7 Ft.
Static Water Level: 2.08 ft
One Well Volume: 1.54 Gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type:
Sampling Device: Peristaltic Pump
☐ Pump – Type: Peristaltic
Pump Rate: NA

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	pH	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	ORP/Eh	Water Level	Comments
Initial	--	8.06	19.8	0.670	46.10	-37.8	2.08	DO 3.02
913								
900	1.0	7.54	17.9	1.986	11.18	-68.1	7.03	2.91
0935	1.0	7.33	17.5	2.094	0.77	-19.7	7.80	3.27
0940	0.5	7.47	18.2	2.219	-1.05	31.1	8.28	
0945	0.25	7.59	17.3	2.095	5.27	61.1	9.0	
0950	0.25	7.83	17.5	2.153	5.09	77.2	10.22	
0955	.25	7.58	17.1	2.108	1.68	10.7	10.55	

Total 3.25 Gallons Purged

Purge Time Start: 900
Purge Time End: 955 (DRY)

WELL SAMPLING

Sample I.D.: M-5R
No. of Containers: 3
Sample Time: 1000
Sample Preservation:

Sampled For:
☐ TCL VOCs - 8260
☒ TCL SVOCs - 8270
☐ TCL Pesticides
☒ TAL Metals
☐ PCBs
☐ Other:

OBSERVATIONS

Notes:
Measured out inside casing.
This well purges dry. completely dry

Recharge Behavior: ☐ Fast ☐ Moderate ☐ Slow ☒ Purged Dry

GROUNDWATER COLLECTION AND SAMPLE LOG

LaBella
Powered by partnership
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

WELL I.D.: MW-7

Project Name: Franczyk Park
Location: City of Buffalo
Project No.: 2212554
Sampled By: Heather Geoghegan
Date: 8/19/2021
Weather: 80°F Humid cloud coverage.

PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 7.61 Ft.
Static Water Level: 2.58' ft
One Well Volume: 0.80 Gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type:
Sampling Device: Designated tubing
☐ Pump – Type: Peristaltic
Pump Rate: NA

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	pH	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	ORP/Eh	Water Level	Comments
Initial	--	6.80	18.2	3.203	503.87	-107.6	2.58'	- Dark Gray @ 1st
1050	1.0	6.93	20.5	1.519	29.66	-93.6	4.0'	
1055	0.25	6.87	20.1	1.715	10.33	-80.6	4.51	
1100	0.25	6.60	19.1	2.003	4.57	-79.6	5.3	
1103	0.10	6.59	19.0	1.019	9.69	-79.2	5.41	

Total 1.6 Gallons Purged

Purge Time Start: 1050
Purge Time End: 1103

WELL SAMPLING

Sample I.D.: MW-7
No. of Containers: 3
Sample Time: 1105
Sample Preservation: —

Sampled For:
☐ TCL VOCs - 8260
☒ TCL SVOCs - 8270
☐ TCL Pesticides
☒ TAL Metals
☐ PCBs
☐ Other:

OBSERVATIONS

Notes: Duplicate. At the beginning of low flow sampling the water came out DARK gray/Black. Clears right up.

Good for Duplicate Sample.

Recharge Behavior: ☐ Fast ☒ Moderate ☐ Slow ☐ Purged Dry

GROUNDWATER COLLECTION AND SAMPLE LOG

LaBella
Powered by partnership
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

WELL I.D.: MW- 08

20.9 / 0

Project Name: Franczyk Park
Location: City of Buffalo
Project No.: 2212554
Sampled By: Heather Geoghegan
Date: 8/19 /2021
Weather: 80°F Humid clouds.

PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 7.6 Ft.
Static Water Level: 2.94 ft
One Well Volume: 0.75 Gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type:
Sampling Device: Designated Tubing
☒ Pump – Type: Peristaltic
Pump Rate: NA

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	pH	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	ORP/Eh	Water Level	Comments
Initial	--	6.84	19.2	3.03	762.8	-85.7	2.94	Burnt Yellow Color.
1130	1.0	6.84	21.8	1.020	58.73	-107.6	3.31	Slightly yellow.
1135	1.0	6.84	20.9	1.355	14.59	-107.4	3.36	Cleared up.
1140	0.5	6.79	20.5	1.521	11.75	-109.4	3.38	
1145	0.5	6.81	20.3	1.699	2.45	-115.6	3.40	
1150	0.5	6.82	20.5	1.870	2.79	-117.1	3.70	

Total 3.5 Gallons Purged

Purge Time Start: 1130
Purge Time End: 1150

WELL SAMPLING

Sample I.D.: MW-8
No. of Containers: 3
Sample Time: 1150
Sample Preservation:

Sampled For:
☐ TCL VOCs - 8260
☒ TCL SVOCs - 8270
☐ TCL Pesticides
☒ TAL Metals
☐ PCBs
☐ Other:

OBSERVATIONS

Notes:
Water setting above well CAP.

Good for Field Duplicate.

Recharge Behavior: ☒ Fast ☐ Moderate ☐ Slow ☐ Purged Dry

GROUNDWATER COLLECTION AND SAMPLE LOG

LaBella
Powered by partnership
300 Pearl Street
Buffalo, New York 14202
Telephone: (716) 551-6281
Facsimile: (716) 551-6282

WELL I.D.: MW- 3

11.8 /0

Project Name: Frenczyk Park
Location: City of Buffalo
Project No.: 0221554
Sampled By: Heather Geoghegan
Date: 8/ 19 /2021
Weather: 80° f Humid Sunny

PURGE VOLUME CALCULATION

Well Diameter: 2"
Depth of Well: 16.15 Ft.
Static Water Level: 4.21 ft
One Well Volume: Gallons

PURGE AND SAMPLING METHOD

☐ Bailer – Type:
Sampling Device: Designated Tubing
☒ Pump – Type: Peristaltic
Pump Rate:

FIELD PARAMETER MEASUREMENT

Time	Gallons Purged	pH	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)	ORP/Eh	Water Level	Comments
Initial	--	4.22	18.3	10.207	457	80.1	4.21	Soft Bottom Sed
1215	0.25	4.08	16.7	10.040	905	106.5	4.65	V. Silty
1220	0.25	4.08	15.5	8.224	1055	106.1	5.16	cloudy
1225	0.25	4.07	15.3	7.751	201.40	93.7	5.72	cloudy
1230	0.25	4.13	15.4	6.951	79.10	88.1	6.10	cloudy
1235	0.25	4.18	15.8	6.895	50.0	88.9	6.15	cloudy
1240	0.25	4.49	16.4	6.685	55.0	87.7	6.21	cloudy
1245	0.25	4.17	16.1	6.502	54.0	81.3	6.4	cloudy
1250	0.25	4.17	16.3	6.505	53.0	81.7	6.43	cloudy

Total _____ Gallons Purged

Purge Time Start: _____ Purge Time End: _____

WELL SAMPLING

Sample I.D.: MW-3
No. of Containers: 3
Sample Time: 1250
Sample Preservation:

Sampled For:
☐ TCL VOCs - 8260
☒ TCL SVOCs - 8270
☐ TCL Pesticides
☒ TAL Metals
☐ PCBs
☐ Other: _____

OBSERVATIONS

Notes:
- At first well very silty with driller sand present.
- Well has odor
- Water remained a constant light milky color. No visible floating particles. Turbidity meter read 50-53

* Note, water within well covering well cap.

Recharge Behavior: ☒ Fast ☐ Moderate ☐ Slow ☐ Purged Dry

APPENDIX 2

Photographs

East portion of Site (baseball diamond)

Site from east end facing west

Central portion of Site from south portion facing north (soccer fields)

West portion of Site

Site from west portion facing east

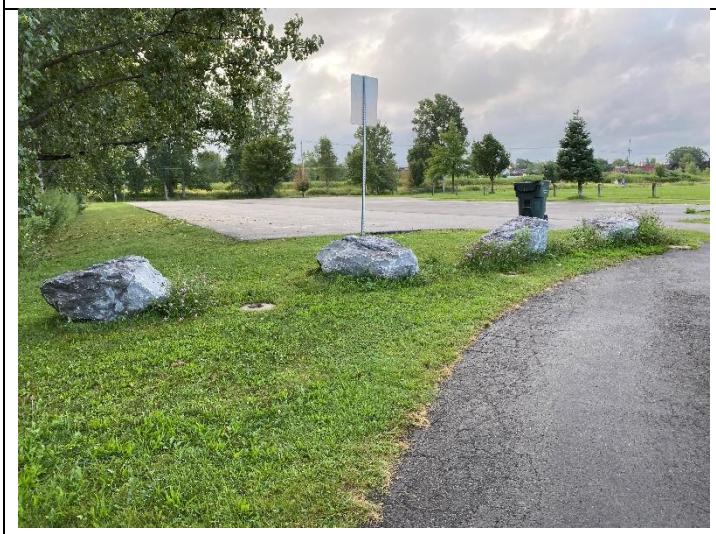
Basketball courts

Playground

Playgrounds

Hockey Rink

Parking area on south portion of Site along Fleming Street



Parking Area at northwest corner of Site off New Babcock Street

Typical pedestrian/bicycle trail on east portion of Site

Low mulch areas in swing set playground area

Area of missing boulders along Fleming Street

MW-03

MW-07

MW-08

APPENDIX 3

Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form

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

Site Details **Box 1**

Site No. **B00174**

Site Name Franczyk Park Investigation

Site Address: 550 and 564 New Babcock Street Zip Code: 14206-
City/Town: Buffalo (C)
County: Erie
Site Acreage: 15.490

Reporting Period: September 15, 2020 to September 15, 2021

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. B00174 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
112.17-1-10	City of Buffalo	Ground Water Use Restriction Landuse Restriction Site Management Plan
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan
		O&M Plan
112.17-1-11	City of Buffalo	O&M Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
112.17-1-10	Cover System Cover System Groundwater Containment
112.17-1-11	Cover System

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 Engineering Control certification;

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

YES	NO
☒	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
☒	☐

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

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

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. B00174

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 ANDREW BENKLEMAN (print name) at LaBELLA ASSOCIATES, 300 PEARL ST, SUITE 130, BUFFALO, NY (print business address).

am certifying as REMEDIAL PARTY (Owner or Remedial Party)

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

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

10/14/2021
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I ANDREW BENKLEMAN at LABELLA ASSOCIATES 300 PEARL ST, SUITE 130, BUFFALO, NY.
print name print business address

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

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

Stamp (Required for PE)

10/14/2021
Date

APPENDIX 4

Laboratory Analytical Report

ANALYTICAL REPORT

Lab Number:	L2136420
Client:	LaBella Associates, P.C. 300 Pearl Street Suite 252 Buffalo, NY 14202
ATTN:	Andy Benkleman
Phone:	(716) 551-6281
Project Name:	FRANCZYK PARK WELL REPLACEMENT
Project Number:	2211700
Report Date:	07/28/21

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

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

Project Name: FRANCZYK PARK WELL REPLACEMENT
Project Number: 2211700

Lab Number: L2136420
Report Date: 07/28/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2136420-01	MW-5R	WATER	BUFFALO, NY	07/07/21 11:00	07/07/21

Project Name:	FRANCZYK PARK WELL REPLACEMENT	**Lab Number:**	L2136420
Project Number:	2211700	**Report Date:**	07/28/21

Case Narrative

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

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

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

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

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

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

Project Name:	FRANCZYK PARK WELL REPLACEMENT	**Lab Number:**	L2136420
Project Number:	2211700	**Report Date:**	07/28/21

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.

The analysis of Total Metals was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Semivolatile Organics

The WG1522863-2 LCS recovery, associated with L2136420-01 and -01RE, is below the acceptance criteria for benzidine (0%); however, it has been identified as a "difficult" analyte. The result of the associated sample is reported.

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: Sebastian Corbin

Title: Technical Director/Representative Date: 07/28/21

ORGANICS

SEMIVOLATILES

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

SAMPLE RESULTS

Lab ID: L2136420-01
Client ID: MW-5R
Sample Location: BUFFALO, NY

Date Collected: 07/07/21 11:00
Date Received: 07/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/14/21 16:36
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 07/12/21 11:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.68	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

SAMPLE RESULTS

Lab ID: L2136420-01 Date Collected: 07/07/21 11:00

Client ID: MW-5R Date Received: 07/07/21

Sample Location: 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	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	81		41-149

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

SAMPLE RESULTS

Lab ID: L2136420-01
Client ID: MW-5R
Sample Location: BUFFALO, NY

Date Collected: 07/07/21 11:00
Date Received: 07/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/25/21 19:27
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/12/21 11:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.06	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.19		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.05	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.09	J	ug/l	0.10	0.01	1
Chrysene	0.07	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.11		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.11		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.11		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.06	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

SAMPLE RESULTS

Lab ID: L2136420-01 Date Collected: 07/07/21 11:00

Client ID: MW-5R Date Received: 07/07/21

Sample Location: 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	77		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	113		23-120
2-Fluorobiphenyl	109		15-120
2,4,6-Tribromophenol	**123**	Q	10-120
4-Terphenyl-d14	123		41-149

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

SAMPLE RESULTS

Lab ID: L2136420-01 RE
Client ID: MW-5R
Sample Location: BUFFALO, NY

Date Collected: 07/07/21 11:00
Date Received: 07/07/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/22/21 03:07
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 15:38

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

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

SAMPLE RESULTS

Lab ID: L2136420-01 RE
Client ID: MW-5R
Sample Location: BUFFALO, NY

Date Collected: 07/07/21 11:00
Date Received: 07/07/21
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	96		41-149

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/14/21 10:17
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/12/21 11:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1522863-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/14/21 10:17
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/12/21 11:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1522863-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	82		41-149

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/25/21 19:08
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/12/21 11:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1522866-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.09	J	ug/l	0.10	0.05
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01
Chrysene	0.02	J	ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/25/21 19:08
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 07/12/21 11:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1522866-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	**121**	Q	23-120
2-Fluorobiphenyl	114		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	138		41-149

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/21/21 11:13
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 15:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1525934-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: FRANCZYK PARK WELL REPLACEMENT **Lab Number:** L2136420

Project Number: 2211700 **Report Date:** 07/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/21/21 11:13
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/20/21 15:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1525934-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	77		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT

Project Number: 2211700

Lab Number: L2136420

Report Date: 07/28/21

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: WG1522863-2 WG1522863-3								
Bis(2-chloroethyl)ether	57		62		40-140	8		30
3,3'-Dichlorobenzidine	**1**	Q	57		40-140	**194**	Q	30
2,4-Dinitrotoluene	70		79		48-143	12		30
2,6-Dinitrotoluene	66		76		40-140	14		30
4-Chlorophenyl phenyl ether	66		73		40-140	10		30
4-Bromophenyl phenyl ether	65		73		40-140	12		30
Bis(2-chloroisopropyl)ether	56		60		40-140	7		30
Bis(2-chloroethoxy)methane	58		67		40-140	14		30
Hexachlorocyclopentadiene	69		76		40-140	10		30
Isophorone	55		62		40-140	12		30
Nitrobenzene	63		68		40-140	8		30
NDPA/DPA	57		66		40-140	15		30
n-Nitrosodi-n-propylamine	60		65		29-132	8		30
Bis(2-ethylhexyl)phthalate	81		80		40-140	1		30
Butyl benzyl phthalate	59		70		40-140	17		30
Di-n-butylphthalate	59		71		40-140	18		30
Di-n-octylphthalate	65		71		40-140	9		30
Diethyl phthalate	62		72		40-140	15		30
Dimethyl phthalate	61		71		40-140	15		30
Biphenyl	63		68		40-140	8		30
4-Chloroaniline	**32**	Q	45		40-140	**34**	Q	30
2-Nitroaniline	64		75		52-143	16		30
3-Nitroaniline	40		70		25-145	**55**	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT

Project Number: 2211700

Lab Number: L2136420

Report Date: 07/28/21

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: WG1522863-2 WG1522863-3								
4-Nitroaniline	51		70		51-143	**31**	Q	30
Dibenzofuran	64		68		40-140	6		30
1,2,4,5-Tetrachlorobenzene	67		74		2-134	10		30
Acetophenone	54		61		39-129	12		30
2,4,6-Trichlorophenol	67		74		30-130	10		30
p-Chloro-m-cresol	61		69		23-97	12		30
2-Chlorophenol	63		69		27-123	9		30
2,4-Dichlorophenol	64		71		30-130	10		30
2,4-Dimethylphenol	57		45		30-130	24		30
2-Nitrophenol	71		80		30-130	12		30
4-Nitrophenol	61		66		10-80	8		30
2,4-Dinitrophenol	88		87		20-130	1		30
4,6-Dinitro-o-cresol	79		91		20-164	14		30
Phenol	44		51		12-110	15		30
2-Methylphenol	57		61		30-130	7		30
3-Methylphenol/4-Methylphenol	58		66		30-130	13		30
2,4,5-Trichlorophenol	67		76		30-130	13		30
Carbazole	57		69		55-144	19		30
Atrazine	68		85		40-140	22		30
Benzaldehyde	50		57		40-140	13		30
Caprolactam	27		30		10-130	11		30
2,3,4,6-Tetrachlorophenol	67		72		40-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT

Project Number: 2211700

Lab Number: L2136420

Report Date: 07/28/21

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: WG1522863-2 WG1522863-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		68		21-120
Phenol-d6	50		57		10-120
Nitrobenzene-d5	73		83		23-120
2-Fluorobiphenyl	69		79		15-120
2,4,6-Tribromophenol	80		89		10-120
4-Terphenyl-d14	72		83		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT

Project Number: 2211700

Lab Number: L2136420

Report Date: 07/28/21

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: WG1522866-2 WG1522866-3								
Acenaphthene	89		91		40-140	2		40
2-Chloronaphthalene	80		80		40-140	0		40
Fluoranthene	95		99		40-140	4		40
Hexachlorobutadiene	65		65		40-140	0		40
Naphthalene	79		80		40-140	1		40
Benzo(a)anthracene	98		104		40-140	6		40
Benzo(a)pyrene	104		108		40-140	4		40
Benzo(b)fluoranthene	106		111		40-140	5		40
Benzo(k)fluoranthene	105		109		40-140	4		40
Chrysene	96		102		40-140	6		40
Acenaphthylene	82		84		40-140	2		40
Anthracene	94		99		40-140	5		40
Benzo(ghi)perylene	98		102		40-140	4		40
Fluorene	82		85		40-140	4		40
Phenanthrene	92		96		40-140	4		40
Dibenzo(a,h)anthracene	100		105		40-140	5		40
Indeno(1,2,3-cd)pyrene	102		105		40-140	3		40
Pyrene	94		98		40-140	4		40
2-Methylnaphthalene	82		82		40-140	0		40
Pentachlorophenol	70		73		40-140	4		40
Hexachlorobenzene	72		76		40-140	5		40
Hexachloroethane	74		75		40-140	1		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT
Project Number: 2211700

Lab Number: L2136420
Report Date: 07/28/21

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: WG1522866-2 WG1522866-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		78		21-120
Phenol-d6	74		74		10-120
Nitrobenzene-d5	112		113		23-120
2-Fluorobiphenyl	89		90		15-120
2,4,6-Tribromophenol	79		72		10-120
4-Terphenyl-d14	102		104		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT
Project Number: 2211700
Lab Number: L2136420
Report Date: 07/28/21

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: WG1525934-2 WG1525934-3								
Bis(2-chloroethyl)ether	**38**	Q	66		40-140	**54**	Q	30
3,3'-Dichlorobenzidine	54		65		40-140	18		30
2,4-Dinitrotoluene	62		88		48-143	**35**	Q	30
2,6-Dinitrotoluene	57		81		40-140	**35**	Q	30
4-Chlorophenyl phenyl ether	50		76		40-140	**41**	Q	30
4-Bromophenyl phenyl ether	55		78		40-140	**35**	Q	30
Bis(2-chloroisopropyl)ether	**36**	Q	66		40-140	**59**	Q	30
Bis(2-chloroethoxy)methane	41		71		40-140	**54**	Q	30
Hexachlorocyclopentadiene	41		76		40-140	**60**	Q	30
Isophorone	**38**	Q	66		40-140	**54**	Q	30
Nitrobenzene	45		76		40-140	**51**	Q	30
NDPA/DPA	52		73		40-140	**34**	Q	30
n-Nitrosodi-n-propylamine	40		69		29-132	**53**	Q	30
Bis(2-ethylhexyl)phthalate	72		77		40-140	7		30
Butyl benzyl phthalate	63		75		40-140	17		30
Di-n-butylphthalate	57		68		40-140	18		30
Di-n-octylphthalate	62		73		40-140	16		30
Diethyl phthalate	55		73		40-140	28		30
Dimethyl phthalate	53		73		40-140	**32**	Q	30
Biphenyl	43		72		40-140	**50**	Q	30
4-Chloroaniline	**24**	Q	40		40-140	**50**	Q	30
2-Nitroaniline	54		81		52-143	**40**	Q	30
3-Nitroaniline	44		58		25-145	27		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT

Project Number: 2211700

Lab Number: L2136420

Report Date: 07/28/21

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: WG1525934-2 WG1525934-3								
4-Nitroaniline	59		74		51-143	23		30
Dibenzofuran	46		75		40-140	**48**	Q	30
1,2,4,5-Tetrachlorobenzene	46		79		2-134	**53**	Q	30
Acetophenone	39		67		39-129	**53**	Q	30
2,4,6-Trichlorophenol	51		82		30-130	**47**	Q	30
p-Chloro-m-cresol	48		73		23-97	**41**	Q	30
2-Chlorophenol	43		73		27-123	**52**	Q	30
2,4-Dichlorophenol	45		78		30-130	**54**	Q	30
2,4-Dimethylphenol	32		58		30-130	**58**	Q	30
2-Nitrophenol	50		88		30-130	**55**	Q	30
4-Nitrophenol	59		75		10-80	24		30
2,4-Dinitrophenol	91		109		20-130	18		30
4,6-Dinitro-o-cresol	87		102		20-164	16		30
Phenol	30		48		12-110	**46**	Q	30
2-Methylphenol	38		65		30-130	**52**	Q	30
3-Methylphenol/4-Methylphenol	40		68		30-130	**52**	Q	30
2,4,5-Trichlorophenol	55		81		30-130	**38**	Q	30
Carbazole	62		76		55-144	20		30
Atrazine	80		94		40-140	16		30
Benzaldehyde	**37**	Q	65		40-140	**55**	Q	30
Caprolactam	19		24		10-130	23		30
2,3,4,6-Tetrachlorophenol	58		82		40-140	**34**	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK WELL REPLACEMENT

Project Number: 2211700

Lab Number: L2136420

Report Date: 07/28/21

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: WG1525934-2 WG1525934-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	41		68		21-120
Phenol-d6	32		53		10-120
Nitrobenzene-d5	51		88		23-120
2-Fluorobiphenyl	47		77		15-120
2,4,6-Tribromophenol	72		95		10-120
4-Terphenyl-d14	73		85		41-149

Project Name: FRANCZYK PARK WELL REPLACEMENT
Project Number: 2211700

Lab Number: L2136420
Report Date: 07/28/21

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(*)
L2136420-01A	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2136420-01B	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2136420-01C	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		SUB-TAL 6010(180)

*Values in parentheses indicate holding time in days

Project Name:	FRANCZYK PARK WELL REPLACEMENT	**Lab Number:**	L2136420
Project Number:	2211700	**Report Date:**	07/28/21

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANCZYK PARK WELL REPLACEMENT	**Lab Number:**	L2136420
Project Number:	2211700	**Report Date:**	07/28/21

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.

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANCZYK PARK WELL REPLACEMENT	**Lab Number:**	L2136420
Project Number:	2211700	**Report Date:**	07/28/21

Data Qualifiers

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANCZYK PARK WELL REPLACEMENT	**Lab Number:**	L2136420
Project Number:	2211700	**Report Date:**	07/28/21

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

Westborough Facility:

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

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page ___ of ___

Date Rec'd in Lab: 7/7/21

ALPHA Job #: L2136420

Project Information

Project Name: Franczyk Park Well Replacement
Project Location: Buffalo, NY
Project #: 2211700
(Use Project name as Project #) ☐
Project Manager: Andrew Benkleman
ALPHAQuote #:

Turn-Around Time

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

Client Information

Client: LaBella Associates
Address: 300 Pearl Street
Buffalo, NY 14202
Phone: 716-551-6281
Fax: 716-551-6282
Email: jdombrowski@labellapc.com

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL SVOCs by 8270	Total Metals by 6010	Sample Specific Comments	Total Bottles
36420-01	NCW-5R	7/7/21	1100	GW	JLD	X	X		

Container Type:
Preservative:

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
Jessica L. Dombrowski	7/7/21 1135	[signature] AAL	7/7/21 1135
[signature] AAL	7/7/21 1135	[signature]	7/7/21 00:55

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)

PHOENIX
Environmental Laboratories, Inc.

Tuesday, July 20, 2021

Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Project ID: L2136420
SDG ID: GCI69758
Sample ID#s: CI69758

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

July 20, 2021

SDG I.D.: GCI69758

Project ID: L2136420

Client Id	Lab Id	Matrix
MW-5R	CI69758	GROUND WATER

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 20, 2021

FOR: Attn: Melissa Deyo
Alpha Analytical Lab
8 Walkup Drive
Westborough, MA 01581

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		07/07/21	11:00
Location Code:	ALPHA	Received by:	LB	07/08/21	11:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCI69758
Phoenix ID: CI69758

Project ID: L2136420
Client ID: MW-5R

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	07/16/21	TH	SW6010D
Aluminum	0.033	0.020	mg/L	1	07/16/21	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	07/16/21	TH	SW6010D
Barium	0.057	0.002	mg/L	1	07/16/21	TH	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	07/16/21	TH	SW6010D
Calcium	176	0.10	mg/L	10	07/16/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	07/16/21	TH	SW6010D
Cobalt	< 0.002	0.002	mg/L	1	07/16/21	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	07/16/21	TH	SW6010D
Copper	< 0.005	0.005	mg/L	1	07/16/21	TH	SW6010D
Iron	0.024	0.010	mg/L	1	07/16/21	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	07/09/21	MGH	SW7470A
Potassium	13.6	0.1	mg/L	1	07/16/21	TH	SW6010D
Magnesium	151	0.10	mg/L	10	07/16/21	EK	SW6010D
Manganese	0.294	0.001	mg/L	1	07/16/21	TH	SW6010D
Sodium	68.2	1.0	mg/L	10	07/16/21	EK	SW6010D
Nickel	0.002	0.001	mg/L	1	07/16/21	EK	SW6010D
Lead	< 0.002	0.002	mg/L	1	07/16/21	TH	SW6010D
Antimony	< 0.005	0.005	mg/L	1	07/16/21	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	07/16/21	TH	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	07/12/21	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	07/16/21	TH	SW6010D
Zinc	0.005	0.004	mg/L	1	07/16/21	TH	SW6010D

Sample Disposal	Completed		07/08/21		
Mercury Digestion	Completed		07/09/21	CG/AB/AB	SW7470A
Total Metals Digestion	Completed		07/08/21	AG	
Total Metals Digestion MS	Completed		07/09/21	AG	

Ver 1

Project ID: L2136420
Client ID: MW-5R

Phoenix I.D.: CI69758

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
July 20, 2021
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

July 20, 2021

QA/QC Data

SDG I.D.: GCI69758

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 582879 (mg/L), QC Sample No: CI69781 (CI69758)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	85.3			85.8	87.9	2.4	80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 582772 (mg/L), QC Sample No: CI69548 (CI69758)													
ICP Metals - Aqueous													
Aluminum	BRL	0.020	0.105	0.106	0.90	98.5	98.0	0.5	109			80 - 120	20
Antimony	BRL	0.005	<0.005	<0.005	NC	103	102	1.0	106			80 - 120	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	104	103	1.0	109			80 - 120	20
Barium	BRL	0.002	0.140	0.135	3.60	101	99.5	1.5	101			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	100	99.5	0.5	99.9			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	100	98.2	1.8	98.8			80 - 120	20
Calcium	BRL	0.010	112	108	3.60	100	98.4	1.6	NC			80 - 120	20
Chromium	BRL	0.001	0.621	0.586	5.80	101	100	1.0	92.1			80 - 120	20
Cobalt	BRL	0.002	0.003	0.003	NC	99.4	98.0	1.4	96.4			80 - 120	20
Copper	BRL	0.005	3.02	3.17	4.80	101	101	0.0	95.2			80 - 120	20
Iron	BRL	0.010	2.42	2.24	7.70	99.3	98.1	1.2	96.1			80 - 120	20
Lead	BRL	0.002	0.004	0.004	NC	100	99.5	0.5	100			80 - 120	20
Magnesium	BRL	0.010	24.0	23.1	3.80	102	101	1.0	NC			80 - 120	20
Manganese	BRL	0.001	0.140	0.135	3.60	99.8	98.6	1.2	97.9			80 - 120	20
Nickel	BRL	0.001	0.143	0.135	5.80	94.2	93.6	0.6	94.8			80 - 120	20
Potassium	BRL	0.1	16.0	15.5	3.20	102	102	0.0	80.6			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	101	99.4	1.6	103			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	97.4	96.7	0.7	104			80 - 120	20
Sodium	BRL	0.10	613	593	3.30	100	99.7	0.3	NC			80 - 120	20
Vanadium	BRL	0.002	0.003	0.006	NC	97.5	96.1	1.4	98.5			80 - 120	20
Zinc	BRL	0.004	0.027	0.026	3.80	101	99.3	1.7	103			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 582956 (mg/L), QC Sample No: CI69814 5X (CI69758)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0005	<0.0002	<0.0002	NC	97.0	97.0	0.0	94.4	86.0	9.3	80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

QA/QC Data

SDG I.D.: GCI69758

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 20, 2021

Tuesday, July 20, 2021

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCI69758 - ALPHA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

July 20, 2021 SDG I.D.: GCI69758

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

July 20, 2021

SDG I.D.: GCI69758

The samples in this delivery group were received at 4.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

4.1° wcc

Subcontract Chain of Custody

Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040

Alpha Job Number
L2136420

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5229
Email: mdeyo@alphalab.com

Project Information

Project Location: NY
Project Manager: Melissa Deyo

Turnaround & Deliverables Information

Due Date: 07/28/21
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program: NYDOH
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2136420

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
69758	MW-5R	07-07-21 11:00	WATER	TAL 6010 Metals	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	[signature]	7/8/21	[signature]	7/8/21 941
	[signature]	7/8/21	[signature]	7/8/21 11:32
Form No: AL_subcoc				

ANALYTICAL REPORT

Lab Number:	L2144691
Client:	LaBella Associates, P.C. 300 Pearl Street Suite 252 Buffalo, NY 14202
ATTN:	Andy Benkleman
Phone:	(716) 551-6281
Project Name:	FRANCZYK PARK
Project Number:	221554
Report Date:	08/26/21

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

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

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2144691-01	MW-05R	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 10:00	08/19/21
L2144691-02	MW-7	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 11:05	08/19/21
L2144691-03	MW-8	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 11:50	08/19/21
L2144691-04	MW-3	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 12:50	08/19/21
L2144691-05	FIELD DUPLICATE	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 00:00	08/19/21

Project Name:	FRANCZYK PARK	**Lab Number:**	L2144691
Project Number:	221554	**Report Date:**	08/26/21

Case Narrative

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

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

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

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

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

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

Project Name:	FRANCZYK PARK	**Lab Number:**	L2144691
Project Number:	221554	**Report Date:**	08/26/21

Case Narrative (continued)

Report Submission

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

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

Authorized Signature: Jennifer L Clements

Title: Technical Director/Representative Date: 08/26/21

ORGANICS

SEMIVOLATILES

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-01
Client ID: MW-05R
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 10:00
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/23/21 16:58
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-01 Date Collected: 08/19/21 10:00

Client ID: MW-05R Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	47		10-120
4-Terphenyl-d14	58		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-01
Client ID: MW-05R
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 10:00
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 14:14
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-01 Date Collected: 08/19/21 10:00

Client ID: MW-05R Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	35		10-120
4-Terphenyl-d14	42		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-02
Client ID: MW-7
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 11:05
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/23/21 17:24
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-02 Date Collected: 08/19/21 11:05

Client ID: MW-7 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	65		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-02
Client ID: MW-7
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 11:05
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 16:11
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-02 Date Collected: 08/19/21 11:05

Client ID: MW-7 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	39		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	41		10-120
4-Terphenyl-d14	71		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-03
Client ID: MW-8
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 11:50
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/23/21 17:50
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-03 Date Collected: 08/19/21 11:50

Client ID: MW-8 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	66		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-03
Client ID: MW-8
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 11:50
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 16:31
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-03 Date Collected: 08/19/21 11:50

Client ID: MW-8 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	55		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	73		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-04
Client ID: MW-3
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 12:50
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/26/21 12:02
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 22:40

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-04 Date Collected: 08/19/21 12:50

Client ID: MW-3 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	52		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-04
Client ID: MW-3
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 12:50
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 16:51
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 22:40

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-04 Date Collected: 08/19/21 12:50

Client ID: MW-3 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	60		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	113		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	96		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-05
Client ID: FIELD DUPLICATE
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 00:00
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/25/21 17:19
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-05 Date Collected: 08/19/21 00:00

Client ID: FIELD DUPLICATE Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	42		10-120
4-Terphenyl-d14	68		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-05
Client ID: FIELD DUPLICATE
Sample Location: CITY OF BUFFALO, NEW YORK

Date Collected: 08/19/21 00:00
Date Received: 08/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 17:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

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

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-05 Date Collected: 08/19/21 00:00

Client ID: FIELD DUPLICATE Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	46		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	90		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/21 14:37
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1537881-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/21 14:37
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1537881-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	67		41-149

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 12:58
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1537882-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.09	J	ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/25/21 12:58
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/23/21 01:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-05 Batch: WG1537882-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	52		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1537881-2 WG1537881-3								
Bis(2-chloroethyl)ether	65		65		40-140	0		30
3,3'-Dichlorobenzidine	66		68		40-140	3		30
2,4-Dinitrotoluene	74		74		48-143	0		30
2,6-Dinitrotoluene	74		76		40-140	3		30
4-Chlorophenyl phenyl ether	66		66		40-140	0		30
4-Bromophenyl phenyl ether	65		68		40-140	5		30
Bis(2-chloroisopropyl)ether	66		65		40-140	2		30
Bis(2-chloroethoxy)methane	66		65		40-140	2		30
Hexachlorocyclopentadiene	70		66		40-140	6		30
Isophorone	64		63		40-140	2		30
Nitrobenzene	72		70		40-140	3		30
NDPA/DPA	68		70		40-140	3		30
n-Nitrosodi-n-propylamine	68		64		29-132	6		30
Bis(2-ethylhexyl)phthalate	65		66		40-140	2		30
Butyl benzyl phthalate	82		86		40-140	5		30
Di-n-butylphthalate	67		67		40-140	0		30
Di-n-octylphthalate	71		74		40-140	4		30
Diethyl phthalate	66		68		40-140	3		30
Dimethyl phthalate	66		67		40-140	2		30
Biphenyl	68		69		40-140	1		30
4-Chloroaniline	43		47		40-140	9		30
2-Nitroaniline	77		83		52-143	8		30
3-Nitroaniline	63		67		25-145	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1537881-2 WG1537881-3								
4-Nitroaniline	76		78		51-143	3		30
Dibenzofuran	66		68		40-140	3		30
1,2,4,5-Tetrachlorobenzene	68		66		2-134	3		30
Acetophenone	66		67		39-129	2		30
2,4,6-Trichlorophenol	68		70		30-130	3		30
p-Chloro-m-cresol	68		69		23-97	1		30
2-Chlorophenol	72		70		27-123	3		30
2,4-Dichlorophenol	74		72		30-130	3		30
2,4-Dimethylphenol	65		65		30-130	0		30
2-Nitrophenol	91		89		30-130	2		30
4-Nitrophenol	72		74		10-80	3		30
2,4-Dinitrophenol	87		88		20-130	1		30
4,6-Dinitro-o-cresol	92		96		20-164	4		30
Phenol	57		54		12-110	5		30
2-Methylphenol	65		64		30-130	2		30
3-Methylphenol/4-Methylphenol	74		72		30-130	3		30
2,4,5-Trichlorophenol	74		75		30-130	1		30
Carbazole	68		70		55-144	3		30
Atrazine	78		83		40-140	6		30
Benzaldehyde	66		66		40-140	0		30
Caprolactam	30		30		10-130	0		30
2,3,4,6-Tetrachlorophenol	77		78		40-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK

Project Number: 221554

Lab Number: L2144691

Report Date: 08/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1537881-2 WG1537881-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	66		63		21-120
Phenol-d6	55		54		10-120
Nitrobenzene-d5	77		74		23-120
2-Fluorobiphenyl	63		63		15-120
2,4,6-Tribromophenol	83		89		10-120
4-Terphenyl-d14	70		72		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1537882-2 WG1537882-3								
Acenaphthene	71		76		40-140	7		40
2-Chloronaphthalene	71		72		40-140	1		40
Fluoranthene	73		74		40-140	1		40
Hexachlorobutadiene	68		63		40-140	8		40
Naphthalene	70		73		40-140	4		40
Benzo(a)anthracene	74		73		40-140	1		40
Benzo(a)pyrene	79		78		40-140	1		40
Benzo(b)fluoranthene	78		81		40-140	4		40
Benzo(k)fluoranthene	80		77		40-140	4		40
Chrysene	71		73		40-140	3		40
Acenaphthylene	71		71		40-140	0		40
Anthracene	71		73		40-140	3		40
Benzo(ghi)perylene	72		72		40-140	0		40
Fluorene	109		76		40-140	36		40
Phenanthrene	70		73		40-140	4		40
Dibenzo(a,h)anthracene	75		76		40-140	1		40
Indeno(1,2,3-cd)pyrene	76		73		40-140	4		40
Pyrene	72		74		40-140	3		40
2-Methylnaphthalene	73		75		40-140	3		40
Pentachlorophenol	87		90		40-140	3		40
Hexachlorobenzene	59		64		40-140	8		40
Hexachloroethane	46		73		40-140	**45**	Q	40

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK

Project Number: 221554

Lab Number: L2144691

Report Date: 08/26/21

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

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-05 Batch: WG1537882-2 WG1537882-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45		62		21-120
Phenol-d6	54		53		10-120
Nitrobenzene-d5	48		78		23-120
2-Fluorobiphenyl	67		66		15-120
2,4,6-Tribromophenol	76		58		10-120
4-Terphenyl-d14	65		67		41-149

METALS

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-01 Date Collected: 08/19/21 10:00

Client ID: MW-05R Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	0.0352		mg/l	0.0100	0.00327	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Antimony, Total	0.00070	J	mg/l	0.00400	0.00042	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00113		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Barium, Total	0.04496		mg/l	0.00050	0.00017	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Calcium, Total	144.		mg/l	0.100	0.0394	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Chromium, Total	0.00086	J	mg/l	0.00100	0.00017	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00116		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Copper, Total	0.00074	J	mg/l	0.00100	0.00038	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Iron, Total	0.167		mg/l	0.0500	0.0191	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Magnesium, Total	164.		mg/l	0.0700	0.0242	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Manganese, Total	0.5539		mg/l	0.00100	0.00044	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/24/21 07:10	08/25/21 14:12	EPA 7470A	1,7470A	OU
Nickel, Total	0.00227		mg/l	0.00200	0.00055	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Potassium, Total	8.99		mg/l	0.100	0.0309	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Sodium, Total	66.3		mg/l	0.100	0.0293	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Thallium, Total	0.00042	J	mg/l	0.00100	0.00014	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD
Zinc, Total	0.00694	J	mg/l	0.01000	0.00341	1	08/24/21 04:40	08/24/21 23:36	EPA 3005A	1,6020B	CD

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-02
Client ID: MW-7
Sample Location: CITY OF BUFFALO, NEW YORK
Date Collected: 08/19/21 11:05
Date Received: 08/19/21
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	3.75		mg/l	0.0100	0.00327	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Antimony, Total	0.00051	J	mg/l	0.00400	0.00042	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Arsenic, Total	0.01208		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Barium, Total	0.06541		mg/l	0.00050	0.00017	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00028	J	mg/l	0.00050	0.00010	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00043		mg/l	0.00020	0.00005	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Calcium, Total	440.		mg/l	0.100	0.0394	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Chromium, Total	0.00744		mg/l	0.00100	0.00017	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Cobalt, Total	0.01387		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Copper, Total	0.02215		mg/l	0.00100	0.00038	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Iron, Total	29.0		mg/l	0.0500	0.0191	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Lead, Total	0.02833		mg/l	0.00100	0.00034	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Magnesium, Total	84.0		mg/l	0.0700	0.0242	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Manganese, Total	5.298		mg/l	0.00100	0.00044	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Mercury, Total	0.00011	J	mg/l	0.00020	0.00009	1	08/24/21 07:10	08/25/21 14:15	EPA 7470A	1,7470A	OU
Nickel, Total	0.01151		mg/l	0.00200	0.00055	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Potassium, Total	21.6		mg/l	0.100	0.0309	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Sodium, Total	36.6		mg/l	0.100	0.0293	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Thallium, Total	0.00057	J	mg/l	0.00100	0.00014	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Vanadium, Total	0.00813		mg/l	0.00500	0.00157	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD
Zinc, Total	0.08874		mg/l	0.01000	0.00341	1	08/24/21 04:40	08/24/21 23:41	EPA 3005A	1,6020B	CD

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-03 Date Collected: 08/19/21 11:50

Client ID: MW-8 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	0.0217		mg/l	0.0100	0.00327	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00277		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Barium, Total	0.1219		mg/l	0.00050	0.00017	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Calcium, Total	390.		mg/l	0.100	0.0394	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Chromium, Total	0.00112		mg/l	0.00100	0.00017	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00089		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Copper, Total	0.00116		mg/l	0.00100	0.00038	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Iron, Total	12.3		mg/l	0.0500	0.0191	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Lead, Total	0.01001		mg/l	0.00100	0.00034	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Magnesium, Total	51.9		mg/l	0.0700	0.0242	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Manganese, Total	0.9367		mg/l	0.00100	0.00044	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/24/21 07:10	08/25/21 14:19	EPA 7470A	1,7470A	OU
Nickel, Total	0.00476		mg/l	0.00200	0.00055	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Potassium, Total	20.4		mg/l	0.100	0.0309	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Sodium, Total	9.10		mg/l	0.100	0.0293	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD
Zinc, Total	0.04348		mg/l	0.01000	0.00341	1	08/24/21 04:40	08/25/21 00:07	EPA 3005A	1,6020B	CD

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-04 Date Collected: 08/19/21 12:50

Client ID: MW-3 Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	204.		mg/l	0.0100	0.00327	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00867		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Barium, Total	0.08529		mg/l	0.00050	0.00017	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00762		mg/l	0.00050	0.00010	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00070		mg/l	0.00020	0.00005	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Calcium, Total	410.		mg/l	0.100	0.0394	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Chromium, Total	0.03668		mg/l	0.00100	0.00017	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Cobalt, Total	0.04548		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Copper, Total	0.01077		mg/l	0.00100	0.00038	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Iron, Total	932.		mg/l	0.500	0.191	10	08/24/21 04:40	08/25/21 13:31	EPA 3005A	1,6020B	CD
Lead, Total	0.03726		mg/l	0.00100	0.00034	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Magnesium, Total	479.		mg/l	0.0700	0.0242	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Manganese, Total	15.35		mg/l	0.01000	0.00440	10	08/24/21 04:40	08/25/21 13:31	EPA 3005A	1,6020B	CD
Mercury, Total	0.00009	J	mg/l	0.00020	0.00009	1	08/24/21 07:10	08/25/21 14:22	EPA 7470A	1,7470A	OU
Nickel, Total	0.07470		mg/l	0.00200	0.00055	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Potassium, Total	127.		mg/l	0.100	0.0309	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Selenium, Total	0.0150		mg/l	0.00500	0.00173	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Sodium, Total	92.7		mg/l	0.100	0.0293	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Vanadium, Total	0.06358		mg/l	0.00500	0.00157	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD
Zinc, Total	0.2590		mg/l	0.01000	0.00341	1	08/24/21 04:40	08/25/21 00:12	EPA 3005A	1,6020B	CD

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

SAMPLE RESULTS

Lab ID: L2144691-05 Date Collected: 08/19/21 00:00

Client ID: FIELD DUPLICATE Date Received: 08/19/21

Sample Location: CITY OF BUFFALO, NEW YORK 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	0.377		mg/l	0.0100	0.00327	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Antimony, Total	0.00472		mg/l	0.00400	0.00042	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00542		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Barium, Total	0.03489		mg/l	0.00050	0.00017	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Calcium, Total	250.		mg/l	0.100	0.0394	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Chromium, Total	0.00153		mg/l	0.00100	0.00017	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00197		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Copper, Total	0.00487		mg/l	0.00100	0.00038	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Iron, Total	8.24		mg/l	0.0500	0.0191	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Lead, Total	0.00316		mg/l	0.00100	0.00034	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Magnesium, Total	25.7		mg/l	0.0700	0.0242	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Manganese, Total	0.7350		mg/l	0.00100	0.00044	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/24/21 07:10	08/25/21 14:33	EPA 7470A	1,7470A	OU
Nickel, Total	0.00273		mg/l	0.00200	0.00055	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Potassium, Total	12.5		mg/l	0.100	0.0309	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Selenium, Total	0.00860		mg/l	0.00500	0.00173	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Sodium, Total	13.2		mg/l	0.100	0.0293	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Thallium, Total	0.00022	J	mg/l	0.00100	0.00014	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Vanadium, Total	0.00321	J	mg/l	0.00500	0.00157	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD
Zinc, Total	0.01734		mg/l	0.01000	0.00341	1	08/24/21 04:40	08/25/21 00:17	EPA 3005A	1,6020B	CD

Project Name: FRANCZYK PARK **Lab Number:** L2144691

Project Number: 221554 **Report Date:** 08/26/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1537733-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Chromium, Total	0.00056	J	mg/l	0.00100	0.00017	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Thallium, Total	0.00020	J	mg/l	0.00100	0.00014	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/24/21 04:40	08/24/21 22:58	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1537734-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	08/24/21 07:10	08/25/21 13:43	1,7470A	OU

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK

Project Number: 221554

Lab Number: L2144691

Report Date: 08/26/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1537733-2								
Aluminum, Total	102		-		80-120	-		
Antimony, Total	89		-		80-120	-		
Arsenic, Total	108		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	84		-		80-120	-		
Chromium, Total	103		-		80-120	-		
Cobalt, Total	104		-		80-120	-		
Copper, Total	105		-		80-120	-		
Iron, Total	103		-		80-120	-		
Lead, Total	106		-		80-120	-		
Magnesium, Total	107		-		80-120	-		
Manganese, Total	102		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	105		-		80-120	-		
Selenium, Total	108		-		80-120	-		
Silver, Total	106		-		80-120	-		
Sodium, Total	106		-		80-120	-		
Thallium, Total	118		-		80-120	-		
Vanadium, Total	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANCZYK PARK

Project Number: 221554

Lab Number: L2144691

Report Date: 08/26/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1537733-2					
Zinc, Total	110	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1537734-2					
Mercury, Total	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1537733-3 QC Sample: L2144600-04 Client ID: MS Sample												
Aluminum, Total	ND	2	2.06	103		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.4389	88		-	-		75-125	-		20
Arsenic, Total	ND	0.12	0.1227	102		-	-		75-125	-		20
Barium, Total	0.00020J	2	2.027	101		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05289	106		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05574	105		-	-		75-125	-		20
Calcium, Total	0.0651J	10	9.42	94		-	-		75-125	-		20
Chromium, Total	0.00074J	0.2	0.2072	104		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.5171	103		-	-		75-125	-		20
Copper, Total	ND	0.25	0.2693	108		-	-		75-125	-		20
Iron, Total	ND	1	1.04	104		-	-		75-125	-		20
Lead, Total	ND	0.53	0.5588	105		-	-		75-125	-		20
Magnesium, Total	ND	10	10.6	106		-	-		75-125	-		20
Manganese, Total	ND	0.5	0.5099	102		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.5039	101		-	-		75-125	-		20
Potassium, Total	ND	10	9.99	100		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.129	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05256	105		-	-		75-125	-		20
Sodium, Total	0.279	10	10.7	104		-	-		75-125	-		20
Thallium, Total	0.00017J	0.12	0.1416	118		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5106	102		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

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): 01-05 QC Batch ID: WG1537733-3 QC Sample: L2144600-04 Client ID: MS Sample									
Zinc, Total	0.01263	0.5	0.5703	112	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1537734-3 QC Sample: L2144605-05 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00481	96	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1537733-4 QC Sample: L2144600-04 Client ID: DUP Sample						
Aluminum, Total	ND	ND	mg/l	NC		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.00020J	0.00018J	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	0.0651J	0.0748J	mg/l	NC		20
Chromium, Total	0.00074J	0.00077J	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	ND	ND	mg/l	NC		20
Manganese, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	0.279	0.293	mg/l	5		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1537733-4 QC Sample: L2144600-04 Client ID: DUP Sample					
Thallium, Total	0.00017J	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.01263	0.01301	mg/l	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1537734-4 QC Sample: L2144605-05 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

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(*)
L2144691-01A	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2144691-01B	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-01C	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-02A	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2144691-02B	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-02C	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-03A	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		TL-6020T(180),SE-6020T(180),FE-6020T(180),BA-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),AG-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180)
L2144691-03B	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-03C	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2144691-04A	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AL-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180),CO-6020T(180)
L2144691-04B	Amber 250ml unpreserved	A	4	4	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-04C	Amber 250ml unpreserved	A	4	4	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-05A	Plastic 250ml HNO3 preserved	A	<2	<2	5.3	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)
L2144691-05B	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2144691-05C	Amber 250ml unpreserved	A	7	7	5.3	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	FRANCZYK PARK	**Lab Number:**	L2144691
Project Number:	221554	**Report Date:**	08/26/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANCZYK PARK	**Lab Number:**	L2144691
Project Number:	221554	**Report Date:**	08/26/21

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.

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANCZYK PARK	**Lab Number:**	L2144691
Project Number:	221554	**Report Date:**	08/26/21

Data Qualifiers

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.

Project Name: FRANCZYK PARK
Project Number: 221554
Lab Number: L2144691
Report Date: 08/26/21

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

Westborough Facility:

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

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 8/20/21

ALPHA Job #: L2144691

Client Information

Client: LaBella Associates
Address: 300 Pearl St. Suite 130
Buffalo, NY 14202
Phone: 716 551 6281
Fax: hgeoghegan@labellapc.com
Email: abenkleman@labellapc.com

Project Information

Project Name: Franczyk Park
Project Location: City of Buffalo, New York
Project # 221554
(Use Project name as Project #) ☐
Project Manager: A. Benkleman
ALPHAQuote #:

Turn-Around Time

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

NYSDEC. ASP Category B Deliverables

Please specify Metals or TAL.

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:

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL SVOCs	TAL Metals	Sample Specific Comments	Total Bottle
44691 - 01	MW-05R	8/19/21	1000	Water	HG	X	X	1 bottle 3/4 Full. Amber	
-02	MW-7	8/19/21	1105	Water	HG	X	X		
-03	MW-8	8/19/21	1150	Water	HG	X	X		
-04	MW-3	8/19/21	1250	Water	HG	X	X		
-05	Field Duplicate	8/19/21	—	Water	HG	X	X		

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
[signature]	8/19/2021 123	[signature] AAL	8/19/21 13:23
[signature] AAL	8/19/21 14:25	[signature]	8/20/21 02:05

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 5

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
harry@frontiernet.net

October 8, 2021

Andrew Benkleman
Labella Associates
300 Pearl St Suite 130
Buffalo, NY 14202

RE: Franczyk Park 2021 Annual Monitoring
Validation of Analytical Laboratory Data; Data Usability Summary Report (DUSR)
Alpha Analytical SDG No. L2144691

Dear Mr. Benkleman:

Review has been completed for the data package generated by that pertains to aqueous samples collected 08/19/21 as part of the 2021 Franczyk Park Annual Monitoring event. Four samples and a field duplicate were processed for TCL semivolatiles and TAL metals. Analytical methodologies utilized are USEPA SW846.

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

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

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

In summary, results for the samples are usable either as reported or with minor qualification/ edit. No matrix spikes were submitted or processed, and the effect of matrix on the analyte recovery has not been determined. Data completeness, representativeness, reproducibility, and comparability are acceptable.

The validation qualifier definitions and client sample identifications are attached to this text. Also included in this report is the client EQuIS EDD of the processed samples with recommended qualifiers/edits applied in red.

Blind Field Duplicate Evaluation

The blind field duplicate evaluation of MW-7 shows outlying recoveries for all except six of the elements. The concentrations in the parent sample exceed those of its duplicate, with the variance as high as an order of magnitude (for aluminum, cobalt, and nickel). Results for all of the metals except the following have been qualified in that parent sample and its duplicate as estimated in value: antimony, beryllium, cadmium, selenium, silver, and thallium.

TCL Semivolatile Analyses by EPA8270D

Holding times were met, and surrogate and internal standard recoveries are compliant. LCS recoveries are within laboratory ranges.

Calibration standards showed responses within validation guidelines, and blanks show no contamination.

TAL Metals by 6020B/7470A

Detected results for thallium in the samples are considered external contamination due to presence in associated blanks.

Instrument performance and LCS recoveries are compliant.

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

Very truly yours,

Judy Harry

Judy Harry

Attachments: Validation Data Qualifier Definitions
Client and Laboratory Identifications
Qualified EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

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

Sample Summaries

Project Name: FRANCZYK PARK
Project Number: 221554

Lab Number: L2144691
Report Date: 08/26/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2144691-01	MW-05R	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 10:00	08/19/21
L2144691-02	MW-7	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 11:05	08/19/21
L2144691-03	MW-8	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 11:50	08/19/21
L2144691-04	MW-3	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 12:50	08/19/21
L2144691-05	FIELD DUPLICATE	WATER	CITY OF BUFFALO, NEW YORK	08/19/21 00:00	08/19/21

APPENDIX 6

MW-05R Installation Documentation

LaBella
Powered by partnership.

300 Pearl Street, Suite 130, Buffalo, NY 14202

TEST BORING LOG

Franczyk Park Well Installation
Soil Sampling
564 Babcock Street
Buffalo, New York

BORING: SB-MW-5R

Sheet 1 of 1
JOB: 2211700

CONTRACTOR: LaBella Associates, D.P.C.
DRILLER: LaBella Env., LLC
LABELLA REPRESENTITIVE: J Dombrowski START DATE: 6/8/2021 END DATE:6/8/2021

TIME:8:45 to 9:00
DATUM:

TYPE OF DRILL RIG: Geoprobe 6620
AUGER SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Direct Push

DRIVE SAMPLER TYPE:
INSIDE DIAMETER: ~ 1.8-Inch
OTHER:

DEPTH (FT)	SAMPLE				REMARKS	VISUAL CLASSIFICATION
	SAMPLE RECOVERY	PID FIELD SCREEN (Parts per Million)	RAD COUNT (Counts per Minute)	STRATA CHANGE		
0-1	10"	0.0	-	0.3'	No staining or odors	0'-0.3' Grass & topsoil (LP, LS, M)
1-2	10"	0.0	-	2'	" "	0.3'-2' Brown silty clay with trace rock & Brick (LP, MS, M).
2-3	10"	0.0	-	3'	" "	2'-3' Brown silty clay with trace rock, brick, & gravel (LP, LS, M).
3-4	10"	0.0	-	-	" "	3'-10' Brown silty clay (MP, LS, M)
4-5	10"	0.0	-	-	" "	10'-14' Brownish gray silty clay (HP, LS, wet).
5-6	12"	0.0	-	-	" "	
6-7	12"	0.0	-	-	" "	
7-8	12"	0.0	-	-	" "	
8-9	12"	0.0	-	-	" "	
9-10	12"	0.0	-	10'	" "	
10-11	12"	0.0	-	-	" "	Boring terminated at 14' bgs.
11-12	12"	0.0	-	-	" "	
12-13	12"	0.0	-	-	" "	
13-14	12"	0.0	-	14'	" "	
14-15						

GROUNDWATER ENCOUNTERED

DATE	DEPTH	WELL INSTALLED	WELL ID
6/8/21	14'	Yes	MW-5R

NOTES:
LP = Low Plasticity
MP = Medium Plasticity
HP = High Plasticity
M = Moist
LS = Low Stiffness
MS = Medium Stiffness
HS = High Stiffness

LaBella
Powered by partnership.

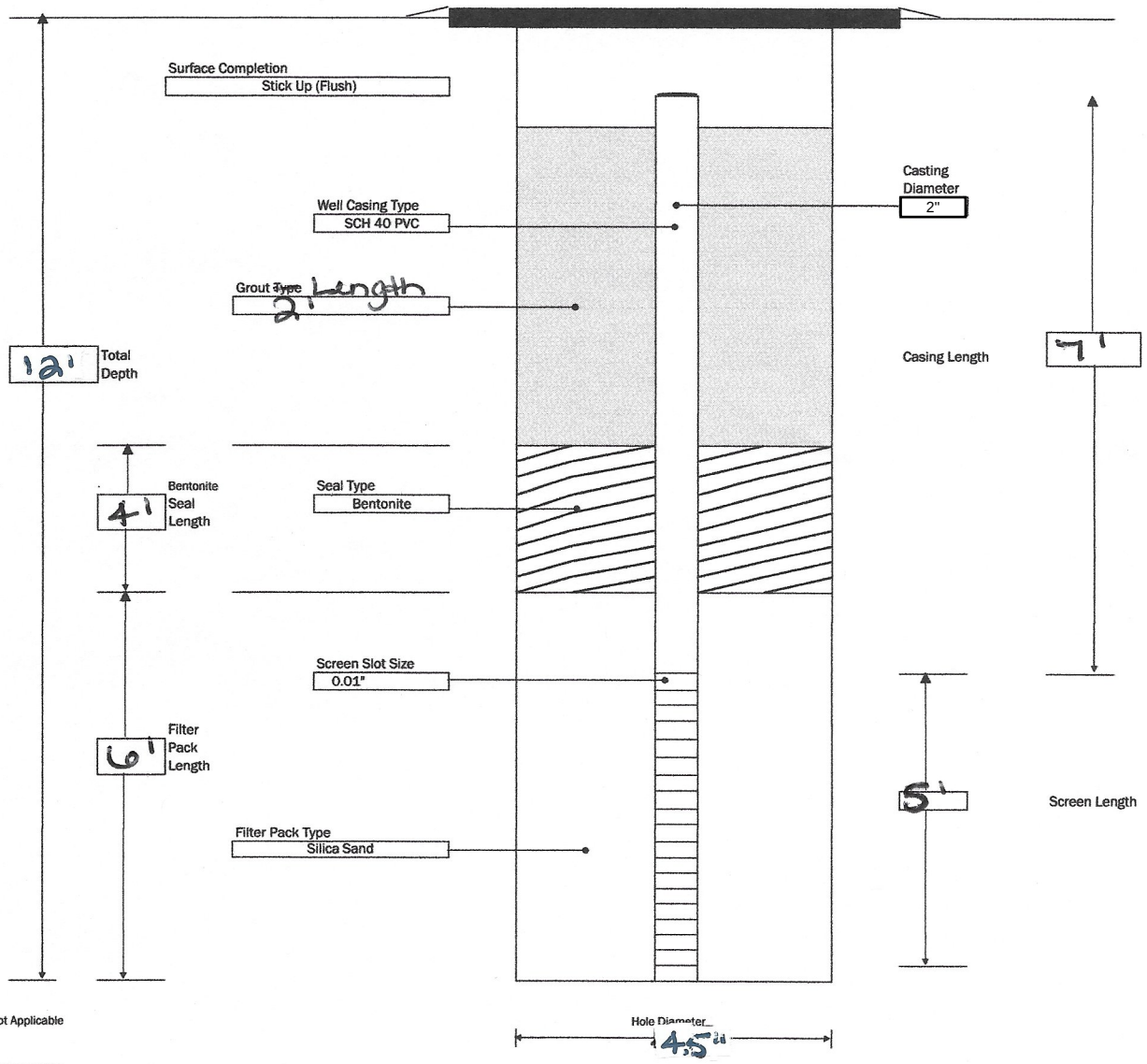
PROJECT	Well ID: MW-5R
Franczyk Park Well Replacement	SHEET 1 OF 1
Buffalo, New York	JOB #2211700
Well Replacement	CHKD. BY:

CONTRACTOR: LaBella LLC
DRILLER: Matt Pepe
LABELLA REPRESENTATIVE: Jessica Dombrowski

BORING LOCATION: SB-MW-5R
GROUND SURFACE ELEVATION: DATUM: Top of Riser
START DATE: 6/8/2021 END DATE: 6/8/2021

TYPE OF DRILL RIG: Geoprobe 6620 DT - Track Mounted Rig
AUGER SIZE AND TYPE: 4.5" / Rotary drilling
OVERBURDEN SAMPLING METHOD: 5-foot MacroCore® sampler
ROCK DRILLING METHOD: N/A

WATER LEVEL DATA				
DATE	TIME	WATER	CASING	REMARKS



NA-Not Applicable

GENERAL NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

PID Readings in PPM

Readings conducted in 15-minute intervals in Work Zone

Date	Time	Reading
6/8/2021	845	0.0
6/8/2021	900	0.0
6/8/2021	915	0.0
6/8/2021	930	0.0
6/8/2021	945	0.0
6/8/2021	1000	0.0
6/8/2021	1015	0.0
6/8/2021	1030	0.0
6/8/2021	1045	0.0
6/8/2021	1100	0.0
6/8/2021	1115	0.0
6/8/2021	1130	0.0
6/8/2021	1145	0.0
6/8/2021	1200	0.0
6/8/2021	1215	0.0
6/8/2021	1230	0.0
6/8/2021	1245	0.0
6/8/2021	1300	0.0

Comments: No PID readings were observed in the work zone at the time of well installation.

Test 001

Instrument		Data Properties	
Model	DustTrak II	Start Date	06/08/2021
Instrument S/N	8530104410	Start Time	09:52:56
		Stop Date	06/08/2021
		Stop Time	12:07:56
		Total Time	0:02:15:00
		Logging Interval	900 seconds

Statistics	
	AEROSOL
Avg	0.022 mg/m^3
Max	0.023 mg/m^3
Max Date	06/08/2021
Max Time	10:07:56
Min	0.020 mg/m^3
Min Date	06/08/2021
Min Time	10:37:56
TWA (8 hr)	0.006
TWA Start Date	06/08/2021
TWA Start Time	09:52:56
TWA End Time	12:07:56

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	06/08/2021	10:07:56	0.023
2	06/08/2021	10:22:56	0.022
3	06/08/2021	10:37:56	0.020
4	06/08/2021	10:52:56	0.020
5	06/08/2021	11:07:56	0.022
6	06/08/2021	11:22:56	0.022
7	06/08/2021	11:37:56	0.023
8	06/08/2021	11:52:56	0.022
9	06/08/2021	12:07:56	0.021

AMERICAN RECYCLERS COMPANY
Waste Profile Report (WPR)

177 Wales Avenue Tonawanda, New York 14151 *Phone (716) 695-6720 Fax (716) 695-0161*	**APPROVAL NUMBER:** A-18765L **EXPIRATION DATE:** 8/24/2023 **HANDLING CODE:** L

Generator: Franczyk Park - City of Buffalo DPW EPA ID #:

Address: 1 Babcock Street Contact: Andrew Benkleman

City Buffalo STATE: NY ZIP: 14206 Phone: 716-768-3184 Fax:

Waste Name: Soil Cuttings	Shipping Name: Non RCRA Non DOT Regulated
Generating Process: Monitoring well installation	
	Rate of Generation: Once
	Container Type: 55 Gal Steel 1A2

Composition of Waste	%		%
Soil cuttings and	- 100		
Debris (PPE)	-		
	-		

Phase	%
Solids	
Liquid	
Sludge	
Debris	

Is the material RCRA listed or Characteristicly Hazardous?	☐ YES	☒ NO
Does the material contain Medical or Biological Wastes?	☐ YES	☒ NO
Does the material contain etiological waste?	☐ YES	☒ NO
Does the material contain, or has it come in contact with PCB's?	☐ YES	☒ NO
Is the material radioactive?	☐ YES	☒ NO
Does the material contain septic or domestic sewage?	☐ YES	☒ NO
Is the material Non-Hazardous as defined by RCRA Title 40?	☒ YES	☐ NO

Check all below which apply:

Material is to be shipped and recycled as Universal Waste	☐ YES	☒ NO
Material is to be shipped and recycled under 6 NYCRR Part 371.1(g)(1)(ii)(b) *(ie Computer Equipment & monitors)*	☐ YES	☒ NO
Material is being shipped for disposal/recycle via facility transfer/consolidation permit	☒ YES	☐ NO
Material is a Labpack and all contents are CERTIFIED as Non-RCRA	☐ YES	☒ NO
List all Lab Pack Container Numbers: *(Attach packing slips to profile)*		

I certify that the above submitted information (including any attachments) is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed. All material offered herein is deemed Non-RCRA.

Signer Title Project Manager

Company LaBella obo City of Buffalo

Signed: [signature] **Print:** Andrew Benkleman **Date:** 8/24/2021

ARC Presonel Reviewed and Approved by:

Approved by: **Print:** Tom Martin **Date:**

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone: 800-535-5053

4. Waste Tracking Number: 39947

GENERATOR

5. Generator's Name and Mailing Address

Franczyk Park - City of Buffalo DPW
1 Babcock Street
Buffalo, NY 14206
Generator's Phone: 716-768-3184

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Environmental Service Group, Inc 716.695.6720

U.S. EPA ID Number: NYD986903904

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

American Recyclers Compan
177 Wales Avenue
Tonawanda, NY 14150
Facility's Phone: 716.695.6720

U.S. EPA ID Number: NYR000030809

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	Non RCRA Non DOT Regulated, (Soil Cuttings)	001	DM	400	P	EST
2						
3						
4						

13. Special Handling Instructions and Additional Information

ERG:
1 -
2 -
3 -
4 -

Approval #:
1 - A-18765L
2 -
3 -
4 -

Handling Codes:
1 - None
2 -
3 -
4 -

24 Hour Emergency Contact: INFOTRAC (Caller Must ID ESG)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: JAMES FEDESON AS AGENT FOR LABELLA ASSOC

Signature

Month: 09 Day: 07 Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JAMES FEDESON

Signature

Month: 09 Day: 07 Year: 21

Transporter 2 Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Justin Rainville

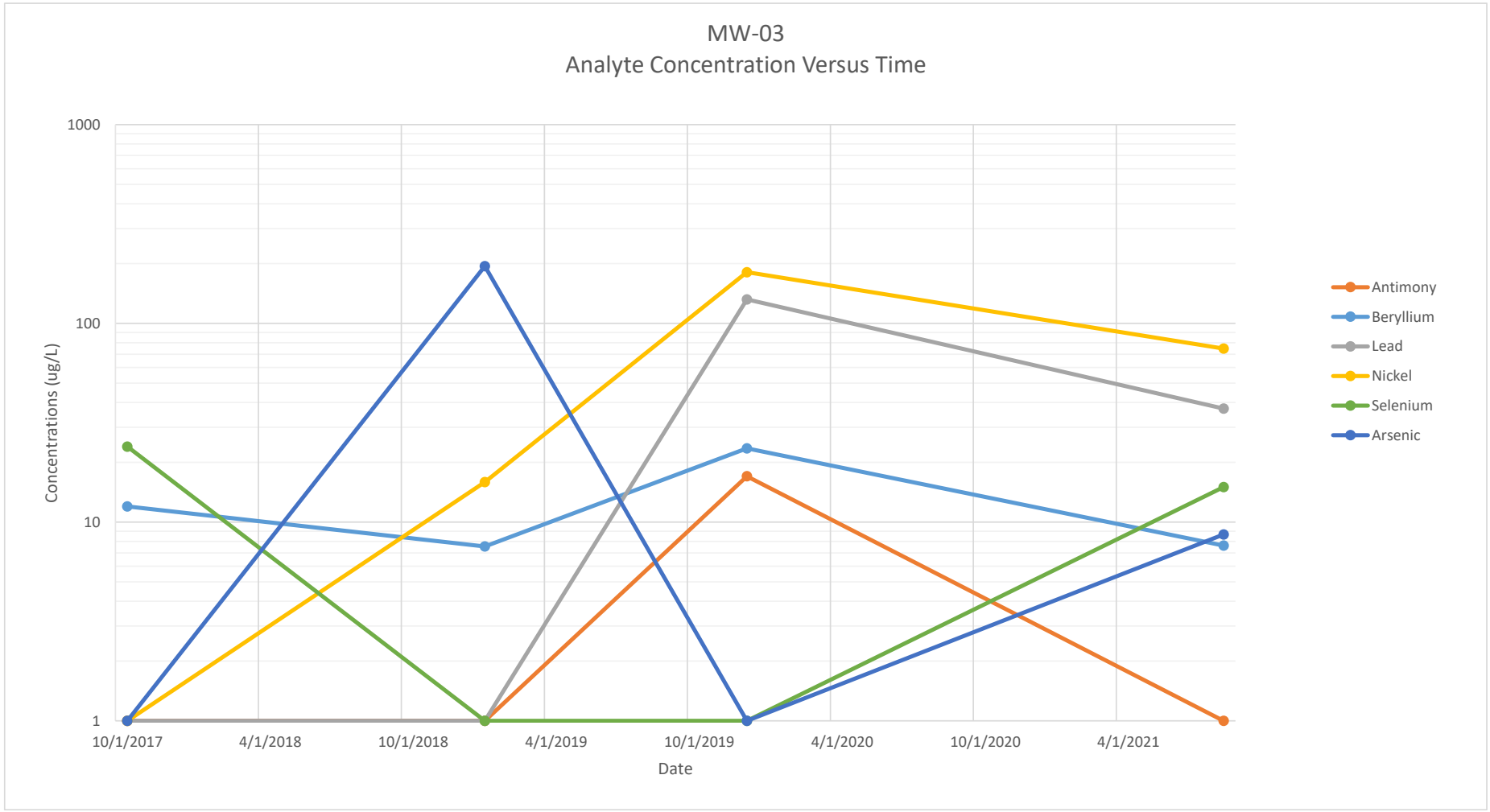
Signature

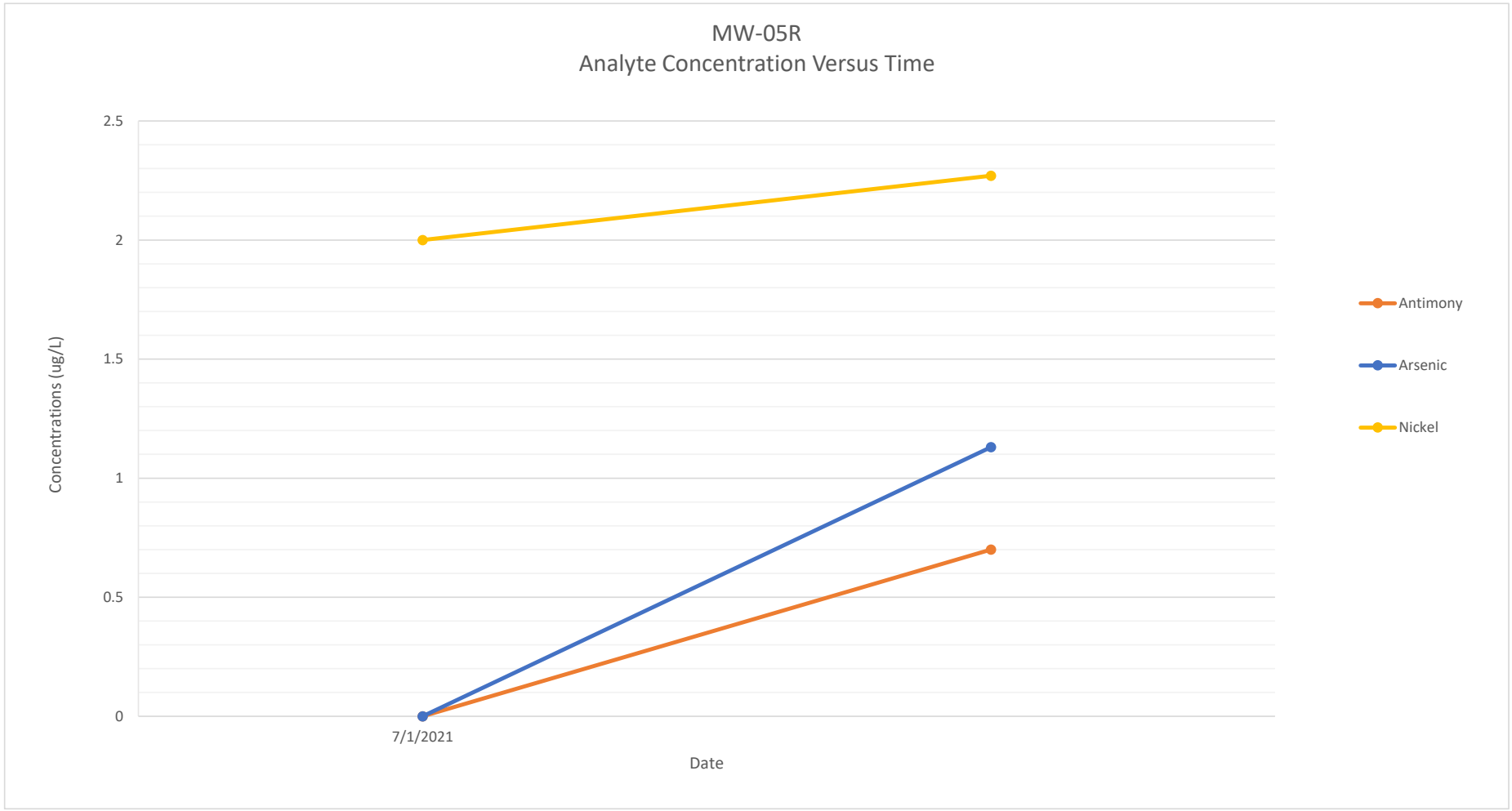
Month: 09 Day: 07 Year: 21

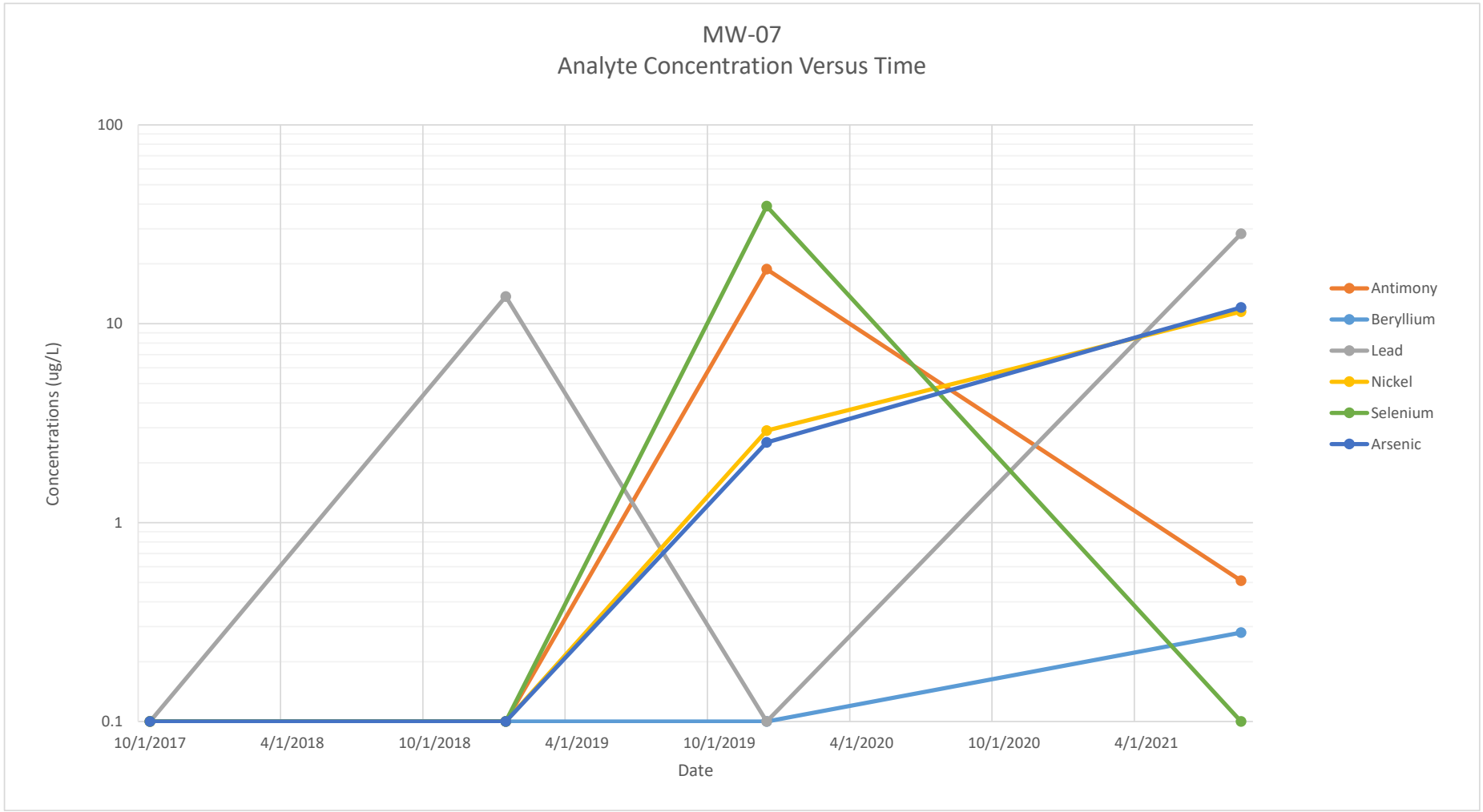
DESIGNATED FACILITY TO GENERATOR

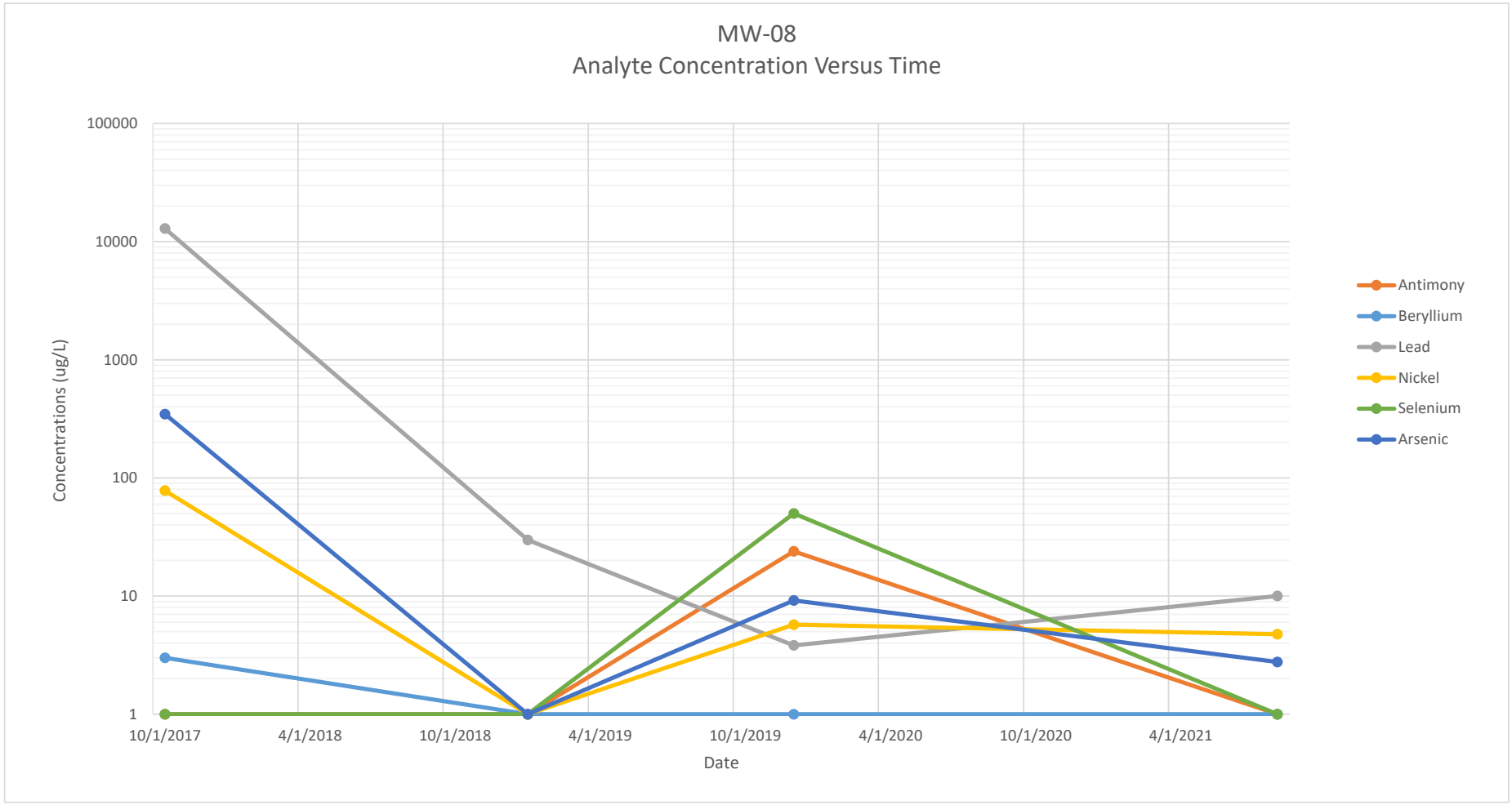
APPENDIX 7

Monitoring Well Concentration Versus Time Plots for Select Metals


MW-03
Analyte Concentration Versus Time
1000
100
10
1
Concentrations (ug/L)
10/1/2017
4/1/2018
10/1/2018
4/1/2019
10/1/2019
4/1/2020
10/1/2020
4/1/2021
Date
Antimony
Beryllium
Lead
Nickel
Selenium
Arsenic


MW-05R
Analyte Concentration Versus Time
Concentrations (ug/L)
2.5
2
1.5
1
0.5
0
7/1/2021
Date
Antimony
Arsenic
Nickel


MW-07
Analyte Concentration Versus Time
100
10
1
0.1
Concentrations (ug/L)
10/1/2017
4/1/2018
10/1/2018
4/1/2019
10/1/2019
4/1/2020
10/1/2020
4/1/2021
Date
Antimony
Beryllium
Lead
Nickel
Selenium
Arsenic


MW-08
Analyte Concentration Versus Time
Concentrations (ug/L)
100000
10000
1000
100
10
1
10/1/2017
4/1/2018
10/1/2018
4/1/2019
10/1/2019
4/1/2020
10/1/2020
4/1/2021
Date
Antimony
Beryllium
Lead
Nickel
Selenium
Arsenic