Periodic Review Report

1827 Fillmore Avenue Site
BCP Site No. C915279
Buffalo, New York

April 2021
Revised June 2021

B0421-021-001

Prepared For:

1827 Fillmore, LLC

Prepared By:

BENCHMARK

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PERIODIC REVIEW REPORT
REPORTING PERIOD DECEMBER 23, 2019 TO MARCH 22, 2021

1827 FILLMORE AVENUE SITE
BCP SITE NO. C915279
BUFFALO, NEW YORK

April 2021
Revised June 2021

B0421-021-001

Prepared for:

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PERIODIC REVIEW REPORT

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1.0 INTRODUCTION

Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) on behalf of 1827 Fillmore LLC to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC or the Department) Brownfield Cleanup Program (BCP) Site No. C915279 located in the City of Buffalo, Erie County, New York (see Figure 1).

This PRR has been prepared in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 1) and is based on the information contained within the November 2019 Site Management Plan (SMP; Ref. 2). Appendix A includes the Institutional and Engineering Control (IC/EC) Certification Form completed based on the Site inspection performed April 8, 2021.

This PRR and associated certifications have been completed to document post-remedial activities at the Site for the December 23, 2019 to March 22, 2021 PRR reporting period.

1.1 Site Background

The Site is located at 1827 Fillmore Avenue in Erie County, City of Buffalo, New York and identified as SBL No. 90.13-1-11 (hereinafter referred to as the "Site"). The 17.11-acre Site is bound by the Kensington Expressway (Route 33) to the north; Buffalo Public School #89, Dr. Lydia T. Wright School of Excellence and athletic fields to the south; Erie County Medical Center (ECMC) and Buffalo Public School #84 to the east; and Fillmore Avenue to the west (see Figure 2).

The Site is primarily vegetated with one asphalt road along the southern boundary. The eastern portion of the Site is currently used by ECMC as a parking area constructed in 2019 as part of the final cover system. The Site was used as a stone quarry from at least 1917 through at least 1927. Sometime between the 1940s and 1950s, the stone quarry was backfilled with unknown fill materials. The Kensington Heights Towers Apartments were constructed in 1958. The seven-story Kensington Heights Towers Apartments was demolished in October 2018 and five similar buildings that were also a part of the Kensington Heights Towers Apartments were demolished circa 2012. The Site has been vacant since the 1980s.

Historic operations impacted on-site soil with polycyclic aromatic hydrocarbons (PAHs) and lead.

1.2 Remedial History

1827 Fillmore LLC entered into a Brownfield Cleanup Agreement (BCA), Index #C915279-10-17, with the NYSDEC in November 2017 to investigate and remediate the 17.11-acre Site located in the City of Buffalo, Erie County, New York. Upon entry into the BCP, Benchmark completed a Remedial Investigation (RI) in accordance with the approved RI Work Plan dated November 2017 (Ref. 3) and three approved supplemental Work Plans including February 2018 Supplemental Remedial Investigation Work Plan (Ref. 4), April 2018 Emerging Contaminants Groundwater Sampling Work Plan (Ref. 5), and June 2018 Supplemental Remedial Investigation Work Plan for Bedrock Drilling Activities (Ref. 6). RI and Supplemental RI activities were performed November to December 2017, July 2018, and May 2018. On-site field activities included soil boring advancement; test pit excavations (across the Site and within two soil/fill mounds); surface soil/fill sampling; overburden and bedrock monitoring well installation; and groundwater quality sample collection. Based on the findings of the RI, Benchmark prepared and completed the January 2019 Remedial Investigation/Alternatives Analysis (RI/AA) Report (Ref. 7) and May 2019 Remedial Action Work Plan (Ref. 8).

The final remedial measures included in-situ stabilization, excavation of soil/fill exceeding Part 375 commercial soil cleanup objectives (CSCOs), and placement of acceptable cover material in areas not otherwise covered by asphalt roadway or pavement as detailed in the November 2019 SMP (Ref. 2) and December 2019 Final Engineering Report (FER; Ref. 9). BCP site activities were performed in accordance with the BCA and the property was remediated to a NYSDEC Part 375 Commercial Use Track 4 cleanup.

1.3 Compliance

At the time of the annual Site inspection (April 8, 2021), the Site was fully compliant with the NYSDEC-approved SMP (Ref. 2). Minor areas of sparse vegetation were noted during the Site inspection, likely caused by cool temperatures and lack of precipitation.

Post-remedial activities performed during this PRR reporting period regulated under the SMP included the following:

- May 8, 2020: Overseeding to improve grass growth.
- July 15-16, 2020: Installation of three overburden monitoring wells (MW-5R, MW-9 and MW-10) and repair of road boxes (MW-1 and MW-7).
- August 21, 2020: Developed newly installed wells MW-5R, MW-9, and MW-10.
- October 8, 2020: Post-remedial groundwater monitoring.

Benchmark provided oversight for intrusive activities in conformance with the NYSDEC approved SMP Excavation Work Plan (EWP) requirements. All redevelopment activities were fully compliant with the NYSDEC-approved SMP.

2.0 SITE OVERVIEW

Previous environmental investigations completed identified contamination from past uses of the Site that required remediation. 1827 Fillmore LLC entered into the BCP to further investigate and remediate the Site for future redevelopment. The remedial activities completed in 2019 included:

- In-situ stabilization of approximately 3,091 cubic yards of characteristic hazardous lead soil/fill using Portland cement in remedial areas SB-21 and TP-13.
- Excavation and off-site disposal of contaminant source areas, including soil exceeding the site-specific action levels (SSALs) of 3,900 ppm for lead and total PAHs exceeding 500 ppm. Approximately 2,200 tons of soil was removed and disposed off-site; this amount includes approximately 160 tons of soil exceeding the 6NYCRR Part 371 hazardous toxicity characteristic for lead in remedial area SB-21, which was treated in-situ and rendered non-hazardous prior to disposal.
- Construction of a soil cover system consisting of a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer to prevent human exposure to remaining contaminated soil/fill remaining at the Site.

The remedial program was successful in achieving the remedial objectives for the Site. An Environmental Easement restricting end use of the Site and enforcing adherence to the SMP was executed by the Department on July 26, 2019 and filed with the Erie County Clerk on September 6, 2019. The FER was approved in December 2019. Concurrently, the Site received a Certificate of Completion (COC) from NYSDEC on December 23, 2019.

3.0 REMEDY PERFORMANCE

A post-remedial site inspection involving a walk-over of the Site was performed by Ms. Lori Riker, P.E. of Benchmark on April 8, 2021 to visually observe and document Site conditions for commercial use, confirm absence of Site groundwater use, and verify conformance with other requirements under the SMP. The Site inspection confirmed that the controls are in-place and functioning as intended in accordance with the SMP. Minor areas of sparse vegetation were noted during the Site inspection, likely due to lack of precipitation and cool temperatures.

Three overburden monitoring wells were installed at the Site in July 2020. Benchmark provided field oversight during intrusive activities and assistance in coordinating soil/fill management.

Appendix A includes the completed IC/EC Certification forms. Appendix B includes photographs taken during the April 8, 2021 Site inspection.

4.0 SITE MANAGEMENT PLAN

A Site-wide SMP was prepared for the Site and approved by the Department in November 2019. Key components of the SMP are described below.

4.1 Institutional and Engineering Control (IC/EC) Plan

Since soil/fill containing constituents above CSCOs and residual groundwater impacts exist beneath the Site, institutional and engineering controls (IC/ECs) are required to protect public health and the environment. The IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the Site.

4.1.1 Institutional Controls

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

- Allows the use and development of the controlled property for commercial uses as defined by Part 375-1.8(g), although land use us subject to local zoning laws.
- Requires compliance with the Department-approved SMP.
- Restricts the use of groundwater underlying the Site as a source of potable water, without necessary water quality treatment as determined by the NYS Department of Health (NYSDOH) or the Erie County DOH.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any physical component of the remedy shall be performed as defined in this SMP.
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- Vegetable gardens and farming on the Site are prohibited.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

4.1.2 Engineering Controls

A cover system has been installed at the Site to prevent exposure to remaining soil/fill contamination above CSCOs. The cover system is comprised of the following (see Figure 3):

- Vegetated Soil Cover – most of the Site is covered by a vegetated soil cover system. The vegetated soil cover consists of a minimum of 12 inches of DER-10 compliant soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer to prevent human exposure to contaminated soil/fill remaining at the Site.
- Asphalt Paved Road – the existing and repaired asphalt roadway along the southern property boundary.
- Asphalt Parking Lot – the area associated with the new ECMC asphalt parking lot expansion project on the eastern portion of the Site. The cover system in this area consists of asphalt pavement and sub-base underlain by geotextile fabric. Appendix D of the SMP provides construction drawings, prepared by others, for the new parking area.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the approved SMP for the Site. The EWP provides guidelines for the management of soil/fill during any future intrusive actives. Any intrusive work that may disturb remaining contamination during maintenance or redevelopment work on the Site must be performed in compliance with the EWP and must also be conducted in accordance with a site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) meeting the minimum requirements of the sample HASP and CAMP included with the SMP.

4.2.1 Post-Remedial Activities

Intrusive activities undertaken during the reporting period (December 23, 2019 to March 22, 2021) were completed in conformance with the SMP and EWP as described below.

4.2.1.1 Well Installation and Repairs

The SMP requires well repair and/or replacement for proper continued monitoring during post-remedial groundwater sampling events. Benchmark inspected all wells in May 2020 and determined that the road boxes for wells MW-1 and MW-7 need to be repaired. In addition, well MW-5 was destroyed following submittal of the SMP and needed to be replaced.

On July 15 and 16, 2020, Earth Dimensions, Inc. installed two overburden monitoring wells (MW-9 and MW-10), required by the November 2019 SMP, and a new flush-mount well (MW-5R) next to former well MW-5; and repaired the road boxes. Monitoring wells were installed in vegetated soil cover areas but did not damage the cover system. Two drums of soil/fill spoils were generated during advancement of monitoring wells. The decontamination water generated was treated through granular activated carbon (GAC) and discharged to ground surface in the vicinity of the wells. Appendix B includes photographic documentation of well installation. Appendix C includes field borehole and monitoring well logs. Benchmark developed the wells on August 21, 2021.

On October 8, 2020, Benchmark collected one composite soil/fill waste characterization sample from the drilling spoils. The soil/fill sample was analyzed by Eurofins TestAmerica for the full list of waste characterization parameters. A waste profile application was submitted to US Ecology on January 21, 2021 for approval to dispose the soil at EQ Detroit, Inc. (MID980991566). Waste disposal approval was received from US Ecology on February 2, 2021 under Approval No. A219106DET. Soil/fill spoils will be disposed during the next reporting period and documented in the 2022 PRR. Appendix D includes landfill approval documentation.

4.2.1.2 Community Air Monitoring Program (CAMP) Results

Community air monitoring was performed at a downwind location during all activities involving disturbance of impacted fill material at the Site. A Community Air Monitoring Program (CAMP) was included with the Health and Safety Plan HASP in the NYSDEC approved SMP. Per the CAMP, action limits of 100 ug/m^3 for respirable particulates and 5 parts per million (ppm) were employed. No exceedances of the 15-minute time weighted average (TWA) thresholds were recorded during intrusive activities. Appendix E includes copies of CAMP data sheets.

4.3 Annual Inspection and Certification Program

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

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

Formal inspection of the Site was conducted by Ms. Lori Riker, P.E. of Benchmark on April 8, 2021. Ms. Riker meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, the Site was fully compliant with the NYSDEC-approved SMP. Minor areas of sparse vegetation were observed during the inspection, likely caused by dry cool weather. No observable indication of intrusive activities or observable use of groundwater were noted during the Site inspection. Benchmark observed all intrusive activities that occurred during the reporting period to verify compliance with the NYSDEC-approved SMP.

Appendix A includes the completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form. Appendix B provides a photographic log of the monitoring well installation and conditions at the time of the Site inspection.

4.4 Operation, Monitoring and Maintenance Plan

The Site remedy does not rely on any mechanical systems (e.g., sub-slab depressurization systems, groundwater pump and treat, or soil vapor extraction systems) to protect public health and the environment; therefore, an Operation and Maintenance (O&M) Plan is not required for the Site.

5.0 GROUNDWATER MONITORING

The SMP requires annual groundwater monitoring and is subject to evaluation and recommendations after year 1, as noted on Table 11 of the SMP. Annual groundwater monitoring is to be performed until the NYSDEC agrees that monitoring can be terminated. Groundwater monitoring is performed at wells MW-1, MW-2, MW-3, MW-5R, MW-7, MW-9, and MW-10.

On July 15 and 16, 2020, two overburden monitoring wells (MW-9 and MW-10) were installed as required by the November 2019 SMP and one replacement overburden monitoring well (MW-5R) was installed to replace well MW-5 destroyed following SMP submittal. Table 1 provides monitoring well construction details.

Benchmark developed these new wells on August 21, 2020 then performed the first annual groundwater monitoring event on October 8, 2020. Groundwater was analyzed for dissolved lead per USEPA Method 6010C and field parameters (i.e., pH, temperature, specific conductance, turbidity, dissolved oxygen, and oxidation-reduction potential). Appendix F includes analytical data packages and field data sheets for the October 2020 sampling event. Table 2 summarizes the post-remedial groundwater monitoring results along with RI data collected in December 2017 and provides a comparison to NYSDEC Class GA groundwater quality standards/guidance values (GWQS/GVs).

As shown on Table 2, dissolved lead concentrations decreased compared to the 2017 RI groundwater sampling event and were identified as non-detect except for a lead concentration of 3 ug/L in well MW-5R, which is well below the GWQS of 25 ug/L. Appendix G includes the Data Usability Summary Report (DUSR) for the October 2020 groundwater data validated by Data Validation Summary. The data was uploaded to the Department's EQuIS database on April 12, 2021.

5.1 Groundwater Flow Direction

Figure 4 provides a groundwater isopotential map for groundwater elevation data collected during the October 2020 sampling event. Groundwater flows in a westerly direction toward the center of the Site, which is consistent with historic and regional flow patterns.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

The Site complied with the SMP at the time of the April 8, 2021 inspection. Minor areas of sparse vegetation were noted likely caused by dry cool weather.

6.2 Recommendations

The following modifications are recommended for the Site:

- Overseeding and watering sparsely vegetated areas.
- Discontinuance of groundwater monitoring at the Site. One annual post-remedial monitoring event is complete, and all dissolved lead concentrations were reported as non-detect or well below the NYSDEC Class GA GWQS.

No other modifications are recommended at this time.

7.0 DECLARATION/LIMITATION

This PRR has been prepared for the exclusive use of 1827 Fillmore LLC. The contents of this PRR are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of 1827 Fillmore LLC. Use of or reliance upon this PRR or its findings by any other person or entity is prohibited without written permission of Benchmark Civil/Environmental Engineering & Geology, PLLC.

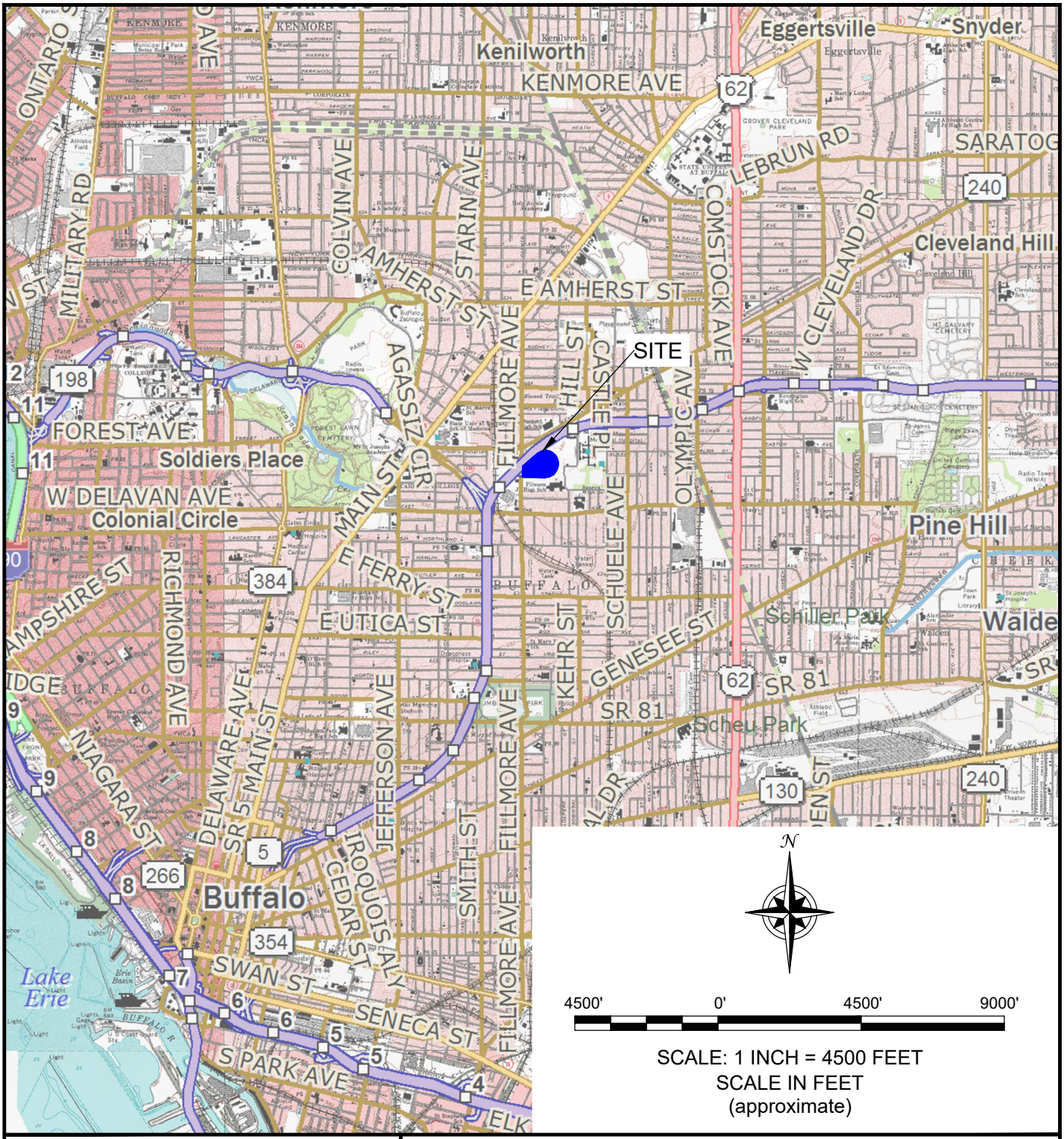
8.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10/Technical Guidance for Site Investigation and Remediation.* May 2013.
2. Benchmark Environmental Engineering and Science, PLLC. *Site Management Plan, 1827 Fillmore Avenue Site, Buffalo, New York.* November 2019
3. Benchmark Environmental Engineering and Science, PLLC. *Remedial Investigation Work Plan, 1827 Fillmore Avenue Site, Buffalo, New York.* November 2017.
4. Benchmark Environmental Engineering and Science, PLLC. *Supplemental Remedial Investigation Work Plan, 1827 Fillmore Avenue Site, Buffalo, New York.* February 2018.
5. Benchmark Environmental Engineering and Science, PLLC. *Emerging Contaminants Groundwater Sampling Work Plan, 1827 Fillmore Avenue Site, Buffalo, New York.* April 2018.
6. Benchmark Environmental Engineering and Science, PLLC. *Supplemental Remedial Investigation Work Plan for Bedrock Drilling Activities, 1827 Fillmore Avenue Site, Buffalo, New York.* June 2018.
7. Benchmark Environmental Engineering and Science, PLLC. *Remedial Investigation/Alternative Analysis Report, 1827 Fillmore Avenue Site, Buffalo, New York.* January 2019.
8. Benchmark Environmental Engineering and Science, PLLC. *Remedial Action Work Plan, 1827 Fillmore Avenue Site, Buffalo, New York.* May 2019.
9. Benchmark Environmental Engineering and Science, PLLC. *Final Engineering Report, 1827 Fillmore Avenue Site, Buffalo, New York.* December 2019.

FIGURES

F:\CAD\Benchmark\Rupp, Baase, Pfalzgraf & Cunningham LLC\1827 Fillmore Avenue\Periodic Review Report\2019-2021\Figure 1; Site Location & Vicinity Map.dwg

FIGURE 1



SCALE: 1 INCH = 4500 FEET
SCALE IN FEET
(approximate)

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
TURNKEY ENVIRONMENTAL RESTORATION, LLC
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PROJECT NO.: 0421-021-001

DATE: APRIL 2021

DRAFTED BY: CCB

SITE LOCATION & VICINITY MAP

PERIODIC REVIEW REPORT

1827 FILLMORE AVENUE SITE
BCP SITE NO. C915279
BUFFALO, NEW YORK

PREPARED FOR

1827 FILLMORE LLC

F:\CAD\Benchmark\Rupp, Baase, Pfalzgraf & Cunningham LLC\1827 Fillmore Avenue\Periodic Review Report\2019-2021\Figure 2; Site Plan (Aerial).dwg

DATE: APRIL 2021
DRAFTED BY: CCB

LEGEND:

PROPERTY BOUNDARY

PARCEL BOUNDARY

FENCE

N

SCALE: 1 INCH = 150 FEET
SCALE IN FEET
(approximate)

150' 0' 150' 300'

FIGURE 2

SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT

1827 FILLMORE AVENUE SITE
BCP SITE NO. C915279
BUFFALO, NEW YORK

PREPARED FOR

1827 FILLMORE LLC

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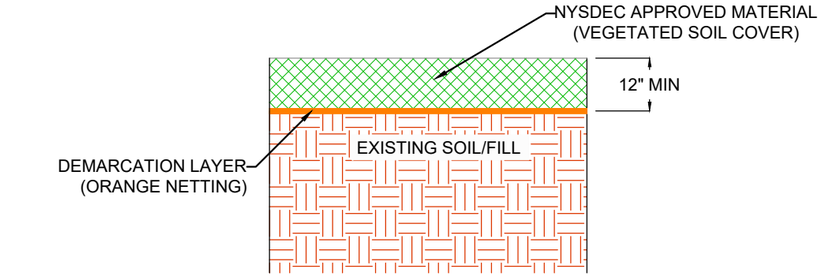
JOB NO.: 0421-021-001

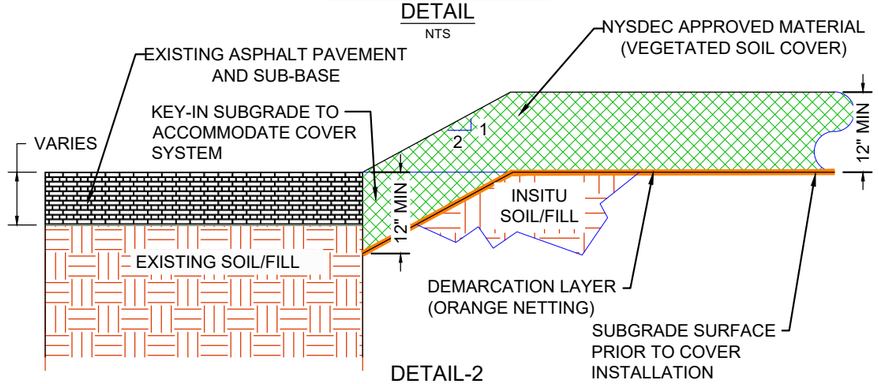
F:\CAD\Benchmark\Rupp, Baase, Pfalzgraf & Cunningham LLC\1827 Fillmore Avenue\Periodic Review Report\2019-2021\Figure 3; Cover System Layout & Detail.dwg

LEGEND:

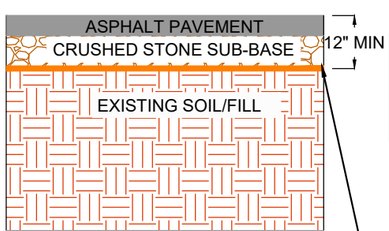
- BCP PROPERTY BOUNDARY
- SOIL COVER SYSTEM
- ASPHALT REPAIRS (2019)
- PARKING LOT AREA
- ASPHALT PARKING LOT AND DRIVEWAY
- FENCE



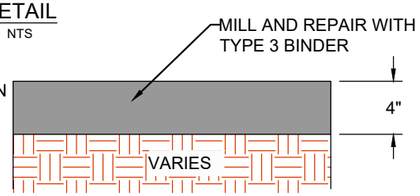
DETAIL-1
SOIL COVER SYSTEM
DETAIL
NTS



DETAIL-2
EXISTING ASPHALT &
COVER SYSTEM TIE-IN
DETAIL
NTS



DETAIL-3
NEW ASPHALT PAVEMENT
COVER SYSTEM DETAIL
NTS



DETAIL-4
ASPHALT PAVEMENT
REPAIR
NTS

SCALE: 1 INCH = 150 FEET
SCALE IN FEET
(approximate)

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COVER SYSTEM LAYOUT & DETAIL

PERIODIC REVIEW REPORT
1827 FILLMORE AVENUE SITE
BCP SITE NO. C915279
BUFFALO, NEW YORK
PREPARED FOR
1827 FILLMORE LLC

FIGURE 3

LEGEND:

- PROPERTY BOUNDARY
- FENCE
- MW-4 482.29 — RI MONITORING WELL (5)
- MW-5 — RI MONITORING WELLS DESTROYED (3)
- MW-2 — RI ROCK WELLS (3)
- 484 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

Note:
1. DEPTH TO WATER MEASUREMENTS MADE BY BENCHMARK ON 10/8/20.
2. GROUNDWATER ELEVATIONS ARE RELATIVE TO AN ARBITRARY BENCHMARK ESTABLISHED ON SITE AT 500'.

N

150' 0' 150' 300'

SCALE: 1 INCH = 150 FEET
SCALE IN FEET
(approximate)

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F:\CAD\Benchmark\Rupp, Baase, Pfalzgraf & Cunningham LLC\1827 Fillmore Avenue\Periodic Review Report\2019-2021\Figure 4; Groundwater Isopotential Map (October 2020).dwg

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GROUNDWATER ISOPOTENTIAL MAP (OCTOBER 2020)

PERIODIC REVIEW REPORT

1827 FILLMORE AVENUE SITE
BCP SITE NO. C915279
BUFFALO, NEW YORK

PREPARED FOR
1827 FILLMORE LLC

FIGURE 4

TABLES

TABLE 1

MONITORING WELL CONSTRUCTION DETAILS AND GROUNDWATER ELEVATIONS

1827 FILLMORE AVENUE SITE
BUFFALO, NEW YORK

Well Identification			Well Elevations				Well Diameter (inches)	Well Screen Data			October 8, 2020	
Well Number	Well Type	Date Completed	TOR Elevation (fmsl)	Ground Elevation (fmsl)	Total Depth (fbTOR)	Bottom of Well Elevation (fmsl)		Length of Well Screen (feet)	Screen Interval (fmsl)	Screen Interval (fbTOR)	Depth to Water (fb TOR)	Groundwater Elevation (fmsl)
MW-1	BR	07/06/2018	--	--	11.87	--	2	7.5	-- to --	4.37 to 11.87	9.46	--
MW-2	BR	07/06/2018	--	--	29.95	--	2	10	-- to --	19.95 to 29.95	21.21	--
MW-3	BR	07/05/2018	--	--	27.77	--	2	8.8	-- to --	18.97 to 27.77	19.50	--
MW-4	OB	11/23/2017	503.92	501.27	15.60	488.32	2	10	498.32 to 488.32	5.60 to 15.60	Dry	--
MW-5	OB	11/20/2017	500.88	497.84	18.30	482.58	2	10	492.58 to 482.58	8.30 to 18.30	--	--
MW-5R[2]	OB	07/15/2020	501.05	498.40	18.03	483.02	2	10	493.02 to 483.02	8.03 to 18.03	17.20	483.85
MW-6	OB	11/21/2017	501.09	498.41	20.28	480.81	2	10	490.81 to 480.81	10.28 to 20.28	--	--
MW-7[1]	OB	11/27/2017	507.99	506.47	26.81	481.18	2	10	491.18 to 481.18	16.81 to 26.81	25.39	482.60
MW-8	OB	11/20/2017	506.62	504.23	22.53	484.09	2	10	494.09 to 484.09	12.53 to 22.53	--	--
MW-9[2]	OB	07/16/2020	509.54	506.97	26.22	483.32	2	10	493.32 to 483.32	16.22 to 26.22	25.43	484.11
MW-10[2]	OB	07/15/2020	503.80	501.06	23.08	480.72	2	10	490.72 to 480.72	13.08 to 23.08	21.60	482.20

Abbreviations:

DTW = depth to water
fbgs = feet below ground surface
fbTOR = feet below top of riser
BR = Bedrock
fmsl = feet above mean sea level
OB = Indicates a well completed in shallow unconsolidated overburden
TOR = top of riser
-- = Not surveyed at this time

Notes:

1. MW-7 was damaged during redevlopment activities, resurveyed on 10/8/20
2. Monitoring wells surveyed on 10/8/20.

MW- 8 Wells destroyed during redevelopment activites.

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TABLE 2
POST-REMEDIAL GROUNDWATER ANALYTICAL DATA

PERIODIC REVIEW REPORT
1827 FILLMORE AVENUE SITE
BUFFALO, NEW YORK

Well ID	Dissolved Lead (ug/L)	
	12/7/2017	10/8/2020
NYSDEC Class GA GWQS [1] ug/L [2] = 25 ug/L		
MW-1	ND	ND
MW-2	ND	ND
MW-3	ND	ND
MW-5[3]	6.2 J	--
MW-5R[4]	--	3 J
MW-6[3]	9.9 J	--
MW-7	4.3 J	ND
MW-8[3]	3.4 J	--
MW-9[4]	--	ND
MW-10[4]	--	ND

Notes:

1. Value per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards
2. Values were reported in mg/L and converted to ug/L for comparision to GWQS
3. Monitoring location was destroyed during 2019 redevelopment activites
4. Newly installed monitoring location July 2020

Definitions:

J = Estimated value

ND = Not detected above method detection limit

"--" = Well not sampled for reason stated

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM

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

Site Details **Box 1**

Site No. C915279

Site Name 1827 Fillmore Avenue

Site Address: 1827 Fillmore Avenue Zip Code: 14214
City/Town: Buffalo
County: Erie
Site Acreage: 17.110

Reporting Period: December 23, 2019 to March 22, 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? 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

Box 2A

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

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

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

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

SITE NO. C915279 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
90.13-1-11	1827 Fillmore, LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

- site use must be maintained as commercial or industrial;
- prohibition against groundwater use without treatment;
- compliance with an excavation work plan; and
- annual groundwater monitoring

Box 4

Description of Engineering Controls

Parcel	Engineering Control
90.13-1-11	Cover System

- soil and pavement site cover system; and
- in-situ stabilized soil/fill

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. C915279

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 Jonathan Swiatkowski (print name) at 1827 Fillmore LLC 462 Grider Street, Buffalo, NY 14215 (print business address),

am certifying as Owner (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

4/19/21
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 Lori E. Riker, P.E. at Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218,
print name — print business address

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

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

Stamp (Required for PE)

04/19/2021
Date

APPENDIX B

SITE PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Well Installation & Repair Activities (July 15 - 16, 2020)

Photo 1: Monitoring well (MW-5R) installation (looking east)

Photo 2: Monitoring well (MW-9) installation (looking southeast)

Photo 3: Monitoring well (MW-10) installation (looking north)

Photo 4: Drums containing soil/fill cuttings and decontamination water generated during drilling activities

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Annual Site Inspection (April 8, 2021)

Photo 5: Asphalt and vegetated soil cover (looking north).

Photo 6: Asphalt and vegetated soil cover (looking west).

Photo 7: View of monitoring well MW-9 installed July 2020 (looking northwest).

Photo 8: Vegetated soil cover (looking southwest).

SITE PHOTOGRAPHS

Photo 9:

Photo 10:

Photo 11:

Photo 12:

Photo 9: View of monitoring well MW-10 installed July 2020 (looking southeast).

Photo 10: Asphalt cover along the southern property boundary (looking west)

Photo 11: Asphalt and vegetated soil cover along the western property boundary (looking north).

Photo 12: Vegetated soil cover (looking northeast).

SITE PHOTOGRAPHS

Photo 13:

Photo 14:

Photo 15:

Photo 16:

Photo 13: Vegetated soil cover along the northern property boundary (looking northeast).

Photo 14: Vegetated soil cover (looking southeast).

Photo 15: Vegetated soil cover (looking northwest from center of Site).

Photo 16: Vegetated soil cover (looking southwest from center of Site).

APPENDIX C

FIELD BOREHOLE AND MONITORING WELL INSTALLATION LOGS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FIELD BOREHOLE LOG

PROJECT: 1827 Fillmore Ave	Log of Boring No.: MW-5R
BORING LOCATION:	ELEVATION AND DATUM:
DRILLING CONTRACTOR: Earth Dimensions	DATE STARTED: 7/15/20 / DATE FINISHED: 7/15/20
DRILLING METHOD: 4 1/4 HSA	TOTAL DEPTH: 15.5' / SCREEN INTERVAL: 15.5-5.5
DRILLING EQUIPMENT: Diedrich D-120	DEPTH TO WATER: FIRST: " COMPL.: / CASING: PVC
SAMPLING METHOD: 2' Continuous SS	LOGGED BY: TAB
HAMMER WEIGHT: / DROP:	RESPONSIBLE PROFESSIONAL: / REG. NO.

Depth (fbgs)	SAMPLES: Sample No.	Sample	Blows (per 6")	SPT N-Value	Recovery	PID Scan (ppm)	SAMPLE DESCRIPTION (ASTM D 2488)	REMARKS
							USCS Classification: Color, Moisture Condition, Primary Soil Type, Secondary Soil Type (<5% Trace, 5-10% Few, 15-25% Little, 30-45% Some), Structure (varved, stratified, thinly bedded, bedded, thickly bedded, laminated, fissured, blocky, lensed, massive), Consistency/Density (Standard Penetration Test, SPT), Weathering/Fracturing, Odor, Fill Materials (if present), Other	
							SURFACE ELEVATION (FMSL):	
2							Augered From 0.0 to 12.0'	1.0
							Black Fs and Ash In Augers Return Soils	Mud Chips
4								3.5
6								5.5
8								#00 Sand
10								
12			12				Fill Wood Debris, Black Fines	
			8				0.0 ppm	
14			8		0.4	0.0	No Recovery / Wet	
			11				TOP of Rock 15.5'	15.5
			4				EOB	
16			5 3/4					
18								

Project No:	Benchmark Environmental Engineering & Science, PLLC	Figure

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FIELD BOREHOLE LOG

PROJECT: 1827 Fillmore Ave	Log of Boring No.: MW-9
BORING LOCATION:	ELEVATION AND DATUM:
DRILLING CONTRACTOR: Earth Dimensions	DATE STARTED: 7/15/20 / DATE FINISHED: 7/16/20
DRILLING METHOD: 4¼ HSA	TOTAL DEPTH: 23.4 / SCREEN INTERVAL: 23.4 - 13.4
DRILLING EQUIPMENT: Dietrich D-120	DEPTH TO WATER: FIRST: / COMPL.: / CASING:
SAMPLING METHOD: 2' Continuous Split Spoon	LOGGED BY: TAB
HAMMER WEIGHT: / DROP:	RESPONSIBLE PROFESSIONAL: / REG. NO.

Depth (fbgs)	Sample No.	Sample	Blows (per 6")	SPT N-Value	Recovery	PID Scan (ppm)	SAMPLE DESCRIPTION (ASTM D 2488)	REMARKS
							USCS Classification: Color, Moisture Condition, Primary Soil Type, Secondary Soil Type (<5% Trace, 5-10% Few, 15-25% Little, 30-45% Some), Structure (varved, stratified, thinly bedded, bedded, thickly bedded, laminated, fissured, blocky, lensed, massive), Consistency/Density (Standard Penetration Test, SPT), Weathering/Fracturing, Odor, Fill Materials (if present), Other	
							SURFACE ELEVATION (FMSL):	
0							Auger to 16.0'	Med chips
							0-1 cover system	
2							1-16 Black Fine sands and ash In cutting Returns	
4								
6			8					
			13				White and Black Ash, moist w/ glass	
8			14		07"	6.0		
			2				As above, Brown	
			2					
10			3					
			3		10	0.0		
			2				As Above wet 21.0'	
			2					
12			2					
			7		0.8	0.0		
			7				Dark grey wet Metal In shoe	
			5					
14			50/4					
							Top of Rock 23.4 fbgs	
							EOB	
16								
18								

1.0
2" PVC Riser
11.4
13.4
#0 SAND
2" PVC screen
23.4

Project No:	Benchmark Environmental Engineering & Science, PLLC	Figure

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FIELD BOREHOLE LOG

PROJECT: 1827 Fillmore Ave	**Log of Boring No.: MW-10**
BORING LOCATION:	ELEVATION AND DATUM:
DRILLING CONTRACTOR: Earth Dimensions	DATE STARTED: 7/15/20 / DATE FINISHED: 7/16/20
DRILLING METHOD: 4¼ HSA	TOTAL DEPTH: 20.3 / SCREEN INTERVAL:
DRILLING EQUIPMENT: Diedrich D-120	DEPTH TO WATER: FIRST: 16.0 COMPL.: / CASING:
SAMPLING METHOD: 2' continuous SS	LOGGED BY: TAB
HAMMER WEIGHT: / DROP:	RESPONSIBLE PROFESSIONAL: / REG. NO.

Depth (fbgs)	Sample No.	Sample	Blows (per 6")	SPT N-Value	Recovery	PID Scan (ppm)	SAMPLE DESCRIPTION (ASTM D 2488)	REMARKS
							USCS Classification: Color, Moisture Condition, Primary Soil Type, Secondary Soil Type (<5% Trace, 5-10% Few, 15-25% Little, 30-45% Some), Structure (varved, stratified, thinly bedded, bedded, thickly bedded, laminated, fissured, blocky, lensed, massive), Consistency/Density (Standard Penetration Test, SPT), Weathering/Fracturing, Odor, Fill Materials (if present), Other	
							SURFACE ELEVATION (FMSL):	
							0-1.0 Cover Systm	1.0'
2							1-12 Dark Brown/Black Fill mostly FS + NPF, with Brick.	
4								2" PVC Riser
6								Med chips
8								8.3
10							Auger to 12.0	10.3 screen
12		1	5 3 11 11		1.0	0.0	0-1 Black, moist Fill, mostly Fine sand and Non-Plastic Fines mixed w/ Ash and Brick	#0015 Sil
14			4 5 3 4		0.8	0.0	0-0.8 White Ash Fill	
16			5 3 3 3		0.4	0.0	As Bam wet 16.0'	#2
18								

Project No:	Benchmark Environmental Engineering & Science, PLLC	Figure

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

FIELD BOREHOLE LOG

PROJECT: 1827 Fillmore	Log of Boring No.: MW-10
BORING LOCATION:	ELEVATION AND DATUM:
DRILLING CONTRACTOR: Earth Dimensions	DATE STARTED: 7/15/20 / DATE FINISHED: 7/16/20
DRILLING METHOD: 4¼ HSA	TOTAL DEPTH: 20.3' / SCREEN INTERVAL:
DRILLING EQUIPMENT: Diedrich D-120	DEPTH TO WATER: FIRST: COMPL.: / CASING:
SAMPLING METHOD: 2' Continous SS	LOGGED BY:
HAMMER WEIGHT: DROP:	RESPONSIBLE PROFESSIONAL: / REG. NO.

14

Depth (fbgs)	Sample No.	Sample	Blows (per 6")	SPT N-Value	Recovery	PID Scan (ppm)	SAMPLE DESCRIPTION (ASTM D 2488)	REMARKS
							USCS Classification: Color, Moisture Condition, Primary Soil Type, Secondary Soil Type (<5% Trace, 5-10% Few, 15-25% Little, 30-45% Some), Structure (varved, stratified, thinly bedded, bedded, thickly bedded, laminated, fissured, blocky, lensed, massive), Consistency/Density (Standard Penetration Test, SPT), Weathering/Fracturing, Odor, Fill Materials (if present), Other	
							SURFACE ELEVATION (FMSL):	
			1				0-0.5 white Ag	#2 WON sand
			2				0.5-1.8 Brown, mostly MPF, some fg mixed w/ Fill (Bldg and Ash)	
20			3					
			3		18	0.0		
			50/3				Lime stone Fragments Top of Rock	20.3
							EOB	
4					0.2	0.0		
							10' Screen 20.3 - 10.3	
							#00 N sand 20.3 - 8.3	
6							Med chips 8.3 - 1	
8								
10								
12								
14								
16								
18								

Project No: | Benchmark Environmental Engineering & Science, PLLC | Figure

APPENDIX D

LANDFILL APPROVAL DOCUMENTATION

US ecology

GENERATOR APPROVAL NOTIFICATION

Customer: DISPOSAL CONNECTIONS INC

February 2, 2021

ENVIRONMENTAL MANAGER

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

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

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

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

Generator: 1827 Fillmore LLC
EPA ID No.: N/A
Waste Common Name: Non-Hazardous Soil
Waste Code(s):
Comments:

Approval No.: A219106DET **Expiration Date:** 01/21/2022
USE Facility Name & ID Number: EQ Detroit, Inc. (MID980991566)

Form ID : 550441

WASTE/MATERIAL PROFILE FORM

A. GENERATOR/CUSTOMER INFORMATION

1. Generator: 1827 Fillmore LLC

2. Site Address: 1827 Fillmore Avenue

City: Buffalo **Phone:** (716) 898-5972

State: NY **Zip:** 14214 **Country:** USA

☐ **P.O. required for payment?** *If yes, include:*

8. Invoicing company: DISPOSAL CONNECTIONS INC

3. Mailing Address: TurnKey Environmental Restoration, LLC,2558 Hamburg Turnpike, Suite 300

City: Buffalo

State: NY **Zip:** 14218 **Country:** USA

9. Invoicing Address : 6569 HEATHER DRIVE

City: LOCKPORT

State: NY **Zip:** 14094-1152 **Country:** USA

4. Technical Contact: Michael Drozdowski

5. Phone: (716) 898-5972 **Email:** mmdrozdowski@ecmc.edu

10. Customer Contact: David Passuite

11. Phone: (716) 471-8914 **Email:** dpassuite@verizon.net

6. Generator Status: ○ SQG ○ LQG ○ VSQG/CESQG ◉ Not Applicable

7. EPA ID #: N/A **NAICS CODE:** 562910 **State ID #:**

B. WASTE/MATERIAL STREAM

1. Common Name: Non-Hazardous Soil

2. Generating Process: See profile form - continuation (Generating Process) for full description

3. Source Code: G49 **Form Code:** W301

C. SHIPPING/PACKAGING INFORMATION

1. DOT Hazardous Materials? ○ Yes ◉ No **Proper Shipping Name:** USDOT Non-Regulated Material (Non-Hazardous Soil)

2. Additional Description:

3. RQ: ○ Yes ◉ No **RQ Reason:** **RQ Threshold:** **UN/NA#:**

Packing Group: **ERG#:** **Hazard Class:**

4. DOT Special Permit? ○ Yes ◉ No **Permit #:**

5. 24-Hour Emergency Phone: **6. DOT Inhalation Hazard?** ○ Yes ◉ No

7. Container Type: ☐ Bulk ☐ Totes ☐ Pallet ☐ Boxes ☑ Drums ☐ Cylinder **Container size:** 55 Gallon Drum

☐ Lab Pack *(If 40 CFR 264.316/49 CFR 173.12(b) Lab Pack Inventory lists required)*

☐ Combination Containers *(e.g., inner containers)* **Describe:**

☐ Other, **Describe:**

8. Volume/Frequency: **Volume:** 1000 **Units:** Pounds

Frequency: ○ Year ○ Quarterly ○ Monthly ◉ 1 Time ○ Other, **Describe:**

D. PHYSCIAL PROPERTIES

1. Physical Description *(e.g. soil, water, PPE, debris, sorbent, etc. Include 100% of container content. If debris, provide dimensions & weight.)*

Description	Typical (%)	Min (%)	Max (%)
Soil	85	70	100
Debris (brick, concrete, glass, wood, plastic, etc	15	0	30

2. Odor: ◉ None ○ Slight ○ Strong **Odor type:** ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Other **Describe:**

3. Physical State: (at 70°F) ☑ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge/Slurry ☐ Liquid ☐ Gas/Aerosol ☐ Varies

4. Color: VARIES:BROWN **5. Liquid phases:** ○ Single ○ Double Layer ○ Multi-layer ◉ N/A

6.Is it solid using the paint filter test? *(40 CFR Part 264.314(b))* ◉ Yes (Solid) ○ No (Not Solid)

Is there a possibility of incidental liquids from transportation? ◉ Yes ○ No

7. pH: (If solid, provide estimated pH if mixed 50:50 with water) ☐ <=2 ☐ 2.1 - 4.9 ☑ 5 - 10 ☐ 10.1 - 12.4 ☐ >=12.5

8. Flash Point: **°F** and/or ☐ <90 **°F** ☐ 90 - 139 **°F** ☐ 140 - 199 **°F** ☐ 200 **°F** ☑ Does not flash ☐ Flammable solid

BTU/lb. Value: and/or ◉ <5000 BTU ○ >5000 BTU

9. Are there any known handling/treatment issues involving this material? ○ Yes ◉ No

E. CHARACTERIZATION & CHEMICAL COMPOSITION

1. US Ecology Texas Customers - Waste/Material Type: ○ Industrial ○ Non-Industrial ◉ N/A **TX State Code:**

Pennsylvania Residual Waste: ○ Yes ◉ No **PA State Code (s):**

2. State Waste Codes:	None									
3. RCRA Waste Codes:	None									

If None, is it exempt from the definition of "Solid Waste" or "Hazardous Waste"? ○ Yes ◉ No

4. If F006-F009, F012, or F019, are Cyanides used in the process? ○ Yes ○ No (If yes, Total and Amenable CN (9010/9012) analysis required)

5. Knowledge is from: ☑ Lab analysis *(requires attachment)* ☐ SDS/MSDS *(requires attachment)* ☑ Process/generator knowledge

6. Chemical Composition *(include all applicable UHC's TRI Section 313 chemicals, OSHA Hazardous Materials, etc.)*

Constituent	Units	TCLP	Totals	Typical	Min	Max	UHC	Exceeds LDR

F. ADDITIONAL PROPERTIES

1. Explosive:	○ Yes ◉ No	**2. Reactive Sulfides :** **ppm**	○ Yes ◉ No
3. Shock Sensitive:	○ Yes ◉ No	**4. Reactive Cyanides:** **ppm**	○ Yes ◉ No
5. Radioactive:	○ Yes ◉ No	**6. Reactive Other:** **Describe:**	○ Yes ◉ No
7. Medical/Infectious/Biohazard Waste:	○ Yes ◉ No	**8. Polychlorinated Biphenyls (PCB):**	○ Yes ◉ No
9. Dioxins and/or Furans:	○ Yes ◉ No	**10. Metal Fines/Powder/Paste:**	○ Yes ◉ No
11. Pyrophoric:	○ Yes ◉ No	**12. Temperature Controlled:**	○ Yes ◉ No
13. Thermally Unstable:	○ Yes ◉ No	**14. Biodegradable Sorbents:**	○ Yes ◉ No
15. Compressed Gas:	○ Yes ◉ No	**16. Used Oil:**	○ Yes ◉ No
17. Oxidizer:	○ Yes ◉ No	**18. Tires:**	○ Yes ◉ No
19. Organic Peroxide:	○ Yes ◉ No	**20. Beryllium:**	○ Yes ◉ No

21. Asbestos: ○ Yes ◉ **No**

22. Ammonia/Ammonia Compounds: ○ Yes ◉ No

23. Hazardous Secondary Material: ○ Yes ◉ No

24. Are pharmaceutical wastes profiled under this approval subject to a prescription? ○ Yes ○ No ◉ N/A

Form ID: 550441

G. REGULATORY INFORMATION

1. Volatile Organic Concentration: *(Per 40 CFR Part 264.1083 & 265.1084)* ◉ <500 ppmw ○ ≥500 ppmw

2. Has the material been treated after the initial point of generation? ○ Yes ◉ No

3. If RCRA Hazardous:

- ○ Wastewater WW=<1% TSS & TOC; 40 CFR Part 268.2
- ○ Non-wastewater TSS/TOC>WW
- ○ Alternative Treatment Standards for soil? > 50% soil; 40 CFR Part 268.49
- ○ Alternative Treatment Standards for debris? 40 CFR Part 268.2(g) & (h); >50% of waste is >2.5 inch size
  - ☐ I confirm debris cannot reasonably be separated from non-debris by simple physical or mechanical means
  - ☐ I confirm debris has not been mixed/diluted with non-debris as prohibited in 40 CFR Part 268.3
- ○ Waste meets LDR Treatment Standards

4. Treatment subcategory: *(if applicable)*

5. Is the site or waste/material, subject to NESHAP/MACT standard(s)? ○ Yes ◉ No

6. Is the waste/material RCRA Hazardous containing Benzene and originating at a petroleum refinery (SIC 2911), chemical manufacturing plant (SIC 2800 thru 2899) or Coke by-product recovery plant (SIC 3312)?

☐ Yes ☑ No *(If yes,complete the Benzene Waste Operations Supplement and if applicable the Thermal Supplement)*

H. GENERATOR'S CERTIFICATION

1. Is a specific facility or treatment technology requested? ○ Yes ◉ No

2. Requested Technology:

3. Thermal Processing: ○ Yes ◉ No

4. Other specific restrictions requested:

5. Requested US Ecology Facility:

Certificate Statement:

I certify that all information (including attachments) is complete, factual and is an accurate representation of the known and suspected hazards pertaining to waste/material described herein. I authorize US Ecology's personnel to add supplemental information to the Waste/Material Profile Form, provided I am contacted and grant permission to do so. US Ecology may require re-submittal of the Waste/Material Profile Form if substantial changes are determined necessary. I authorize US Ecology's personnel to obtain a sample from any waste/material shipment for purposes of verification and confirmation and understand that waste/material that does not conform to specifications described in this Waste/Material Profile Form may be rejected by US Ecology. I certify that I am familiar with the waste/material described herein through analysis and/or process knowledge and that all information provided is true, accurate, representative and complete and that this Waste/Material Profile Form was completed in accordance with the instructions provided.

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

Print Name:	- Michael Lesakowski (as Agent)	**Signature:**	
Title:	- President		
Date:	1/21/2021	**Company:**	- TurnKey Environmental Restoration, LLC

Form ID: 550441

WASTE/MATERIAL PROFILE FORM - CONTINUATION (Generating Process)

B. WASTE/MATERIAL STREAM

2. Generating Process: Remedial excavation of soil at BCP site. Former site of Kensington Heights housing project, currently a vacant commercial lot. The generator has determined that the detection limits on the analysis are high due to the waste matrix, therefore no characteristic D-codes apply. In addition, generator has confirmed there is no concern regarding herbicides/pesticides.

Nathan T. Munley

From: Mike A. Lesakowski
Sent: Thursday, March 28, 2019 4:27 PM
To: Nathan T. Munley
Subject: FW: Owner agent authorization

FYI

From: Drozdowski, Michael <mdrozdowsk@ecmc.edu>
Sent: Thursday, March 28, 2019 4:16 PM
To: Mike A. Lesakowski <MLesakowski@Turnkeyllc.com>; Tom H. Forbes <TForbes@benchmarkturnkey.com>
Cc: Nesbitt, Lindy <DLnesbitt@ecmc.edu>; Perrino, Adam <aperrino@ecmc.edu>; Kolaga, John T. <Kolaga@ruppbaase.com>; Turner, James <JTurner@ecmc.edu>
Subject: Owner agent authorization

Mike & Tom,

On behalf of 1827 Fillmore LLC, I hereby authorize TurnKey Environmental Restoration LLC (TurnKey) to act as agent for 1827 Fillmore LLC for purposes of waste applications and waste shipments to Waste Management. TurnKey may sign waste applications and waste manifests on behalf of 1827 Fillmore LLC during the implementation of remedial measures at the 1827 Fillmore Street BCP Site.

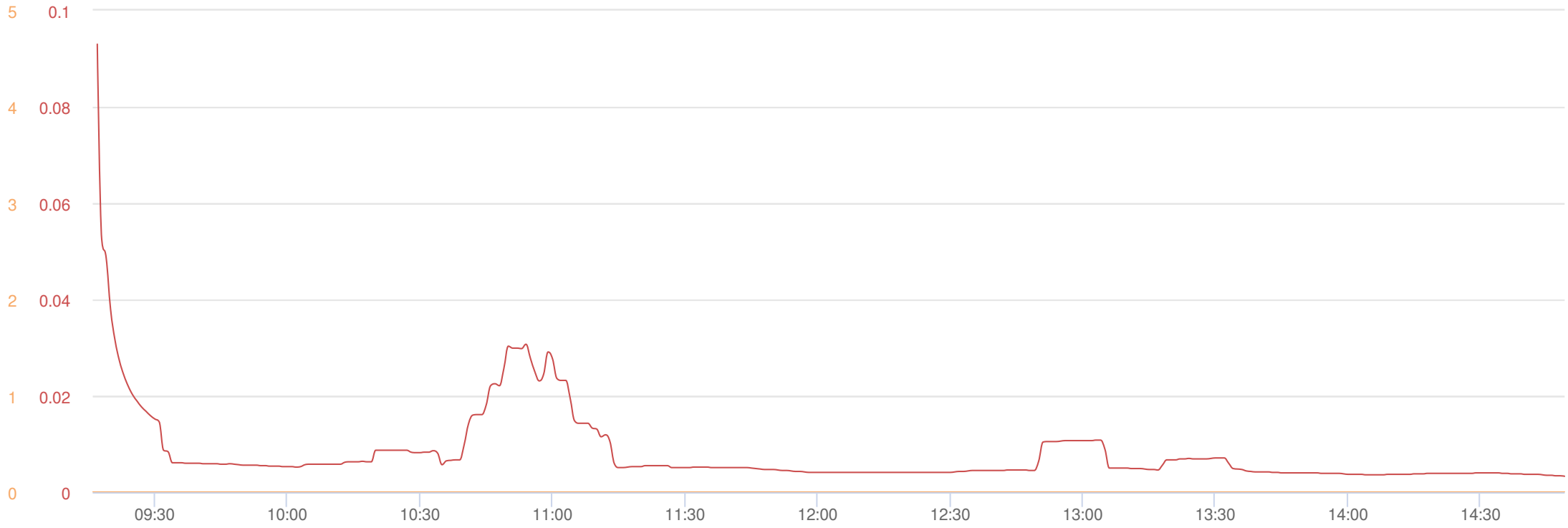
Thanks

Michael Drozdowski, RA , LEED AP
Director Of Capital Projects
Erie County Medical Center Corporation
462 Grider Street
Buffalo, New York 14215
716-898-5972 office
mdrozdowsk@ecmc.edu

APPENDIX E

CAMP DATA

Wed, 15th of Jul 2020, 8:00:00 – 16:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

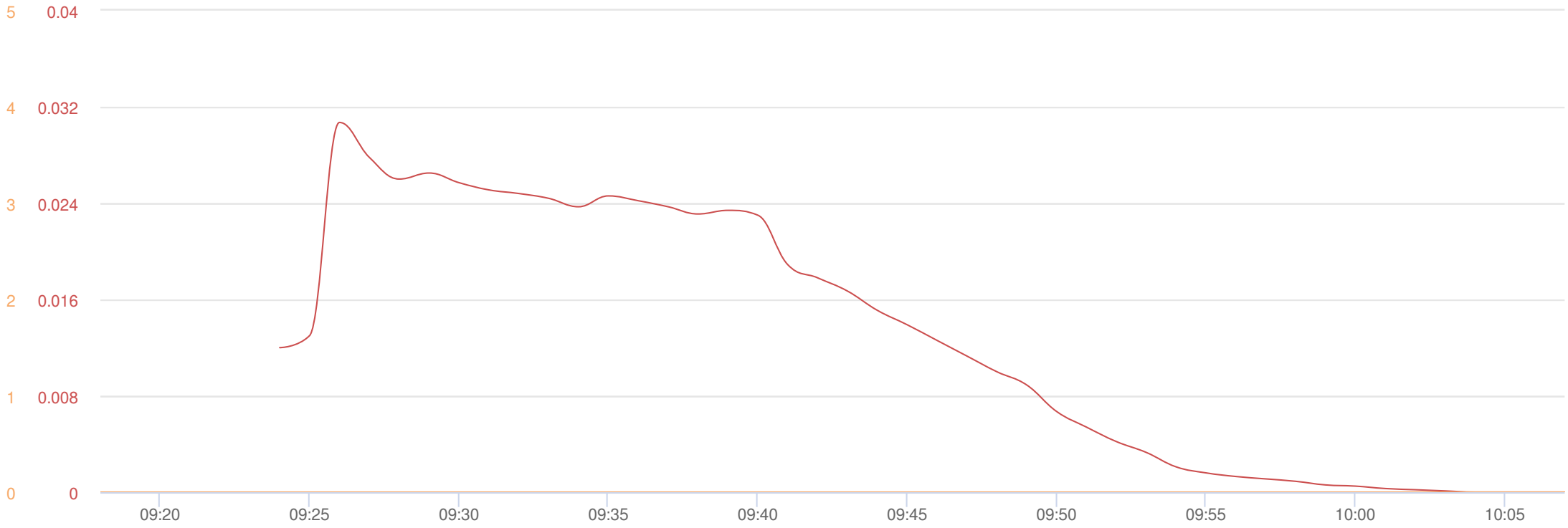
MIN	AVG	MAX
0.0034	0.008	0.093

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

Name	CAMP Station #5
S/N	0B236251
Description	CAMP Station #5
Location	1827 Fillmore Ave, Buffalo, NY 14214, USA

Thu, 16th of Jul 2020, 8:00:00 – 12:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0	0.0129	0.0307

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

Name	CAMP Station #5
S/N	0B236251
Description	CAMP Station #5
Location	1827 Fillmore Ave, Buffalo, NY 14214, USA

APPENDIX F

GROUNDWATER FIELD FORMS & ANALYTICAL DATA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

DAILY LOG			
DATE	10	8	20
NO.			
SHEET		OF	

FIELD ACTIVITY DAILY LOG
(CONTINUED)

PROJECT NAME: 1827 Fillmore | PROJECT NO. B042I-020-001-003

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Groundwater Survey, waste sample

TIME	DESCRIPTION
0830	onsite,
0845	calibrated ground water meters
900	Purged mw-1 DRY
942	Purge mw-4 DRY
1000	Purge mw-10 DRY
1030	Purged mw-7, 3500 mL
1055	Sampled mw-7' WL → 25.54
1113	purged mw-9 DRY
1130	Purged mw-5R DRY
1150	Purged mw-2 DRY
12:25	Purged mw-3, 4.25 gallons
12:46	Sampled mw-3 ms/msd + BD Collected → WL 19.50
12:59	Sampled mw-4 500 mL Purged WL → 25.22
1512	Sampled mw-10 0.5 gallons purged WL → 25.24
1334	Sampled mw-5R 1000 mL purged, WL → 17.19
1346	Sampled mw-2 1.50 gal purged WL → 21.22
1400	Sampled + Tumbled Newly Installed monitoring
-1515	wells, mw-5R, mw-9 & mw-10
1515-1600	sampled Soil cuttings Drums + Run Purge water Through Carbons.
1620	Sampled mw-1, WL 25.71 purged 0.5 gallons
1630	left site

SIGNATURE [signature] DATE: 10/8/20

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: 1827 Fillmore Ave Date: 10/8/20

Location: Buffalo NY Project No.: B0421-020-001 -002 Field Team: TAB

Well No. MW-1			Diameter (inches): 2"			Sample Date / Time: 10/8/20 1623			
Product Depth (fbTOR): —			Water Column (ft): 2.57			DTW when sampled: 9.53			
DTW (static) (fbTOR): 9.40			One Well Volume (gal): 0.41			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 11.97			Total Volume Purged (gal): 0.5gal			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
9.08	0 Initial	0	6.17	17.0	605.1	44.5	6.34	270	SL Turb N. od.
9.13	1 DRY	0.5	6.77	16.9	686.7	<1000	1.84	203	"
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
16:23	S1 9.53	—	7.50	16.5	671.7	446	7.65	-6	"
	S2								

Well No. MW-9			Diameter (inches): 2"			Sample Date / Time: MW-9			
Product Depth (fbTOR): —			Water Column (ft): 0.79			DTW when sampled: 25.51			
DTW (static) (fbTOR): 25.43			One Well Volume (gal): 0.12			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 26.22			Total Volume Purged (gal): 500mL			Purge Method: Bailer			
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
942	0 Initial	0	7.02	12.8	1842	200	2.32	-12	SL Turb N. odor
1113	1 DRY	500mL	7.13	14.7	1653	90.7	4.47	-82	"
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1259	S1 25.51	—	7.46	14.2	1677	89.9	4.36	-34	"
	S2								

1V=1 450mL 250

REMARKS:

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY: TAB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: 1827 Fillmore
Location: Reno NV
Project No.: B0121-020-001 -002
Date: 10/8/20
Field Team: TA-3

Well No. MW-10			Diameter (inches): 2"			Sample Date / Time: 10/8/20 1312			
Product Depth (fbTOR): -			Water Column (ft): ~~1.48~~			DTW when sampled: 22.05			
DTW (static) (fbTOR): 21.60			One Well Volume (gal): 0.24			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 23.08			Total Volume Purged (gal): 0.50 gal			Purge Method: Bailer			

908 mL

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1006	0 Initial	0	~~7.99~~	14.1	3453	57.3	2.31	-63	SL Turbid No odor
1011	1 22.25	0.24	6.92	13.6	3585	298	2.71	-76	"
1020	2 DRY	0.48	6.88	13.5	3325	>1000	1.62	-86	"
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1312	S1 22.29	-	6.90	14.9	3158	596	4.18	-73	"
	S2								

Well No. MW-7			Diameter (inches): 2"			Sample Date / Time: 10/8/20 1055			
Product Depth (fbTOR): -			Water Column (ft): 1.47			DTW when sampled: 25.54			
DTW (static) (fbTOR): 25.39			One Well Volume (gal): 0.23			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (fbTOR): 26.81			Total Volume Purged (gal): 3500 mL			Purge Method: Bailer			

~~870~~ mL

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1035	0 Initial	0	7.15	13.6	1266	253	1.55	-83	Blue ~~Gray~~ Slight odor
1040	1 25.81	1000 mL	~~6.95~~	12.8	1329	188	6.24	-76	"
1047	2 25.69	2000 mL	6.87	12.5	1296	43.8	1.71	-77	"
1053	3 25.66	3000 mL	6.85	12.2	1297	21.2	1.53	-78	"
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1055	S1 25.54	3500 mL	6.83	12.9	1280	24.4	1.07	-79	SL Turbid Slight odor
	S2								

REMARKS:

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY: TA-3

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: 1827 Fillmore Date: 10/8/20
Location: Buffalo NY Project No.: B0421-020-001 Field Team: TAS
002

Well No. MW-5R			Diameter (inches): 2"			Sample Date / Time: 10/8/20 1344				
Product Depth (fbTOR):			Water Column (ft): 6.83			DTW when sampled: 17.19				
DTW (static) (fbTOR): 17.20			One Well Volume (gal): 0.13			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample				
Total Depth (fbTOR): 18.03			Total Volume Purged (gal): 1000 mL			Purge Method: Bailer				
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
1128	0 Initial	0	7.0	14.9	1933	204	2.69	-78	Turbid No odor	
1132	1 17.47	500mL	6.92	14.3	1632	<1000	2.62	-72	"	
1137	2 DRY	1000 mL	7.28	14.1	1483	942	3.99	-78	"	
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1334	S1 17.19	-	6.98	14.6	1518	984	3.52	-89	"	
	S2									

Well No. MW-2			Diameter (inches): 2"			Sample Date / Time: 10/8/20 1346				
Product Depth (fbTOR):			Water Column (ft): 8.07			DTW when sampled: 21.22				
DTW (static) (fbTOR): 21.21			One Well Volume (gal): 1.31			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample				
Total Depth (fbTOR): 29.28			Total Volume Purged (gal): 1.50 gal			Purge Method: Bailer				
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
1153	0 Initial	0	7.12	14.1	1993	<1000	3.92	-55	Brown Mud No odor	
1158	1 28.25	1.25	6.99	14.9	2336	<1000	4.38	-34	"	
1205	2 DRY	1.50	7.04	15.2	3445	888	4.72	-33	"	
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1346	S1 21.22	-	7.02	13.6	4007	17.7	3.13	-60	Brown No odor	
	S2									

REMARKS:

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY: TAS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: 1827 Fillmore Date: 10/8/20
Location: Buffalo NY Project No.: B0421-020-01 -002 Field Team: TAB

Well No. MW-3			Diameter (inches): 2"			Sample Date / Time: 10/8/20 1245				
Product Depth (fbTOR): -			Water Column (ft): 8.29			DTW when sampled: 14.50				
DTW (static) (fbTOR): 14.50			One Well Volume (gal): 1.35			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample				
Total Depth (fbTOR): 27.79			Total Volume Purged (gal): 4.25 gal			Purge Method: Bailer				
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor	
1225	0 Initial	0	7.63	18.4	3461	25.3	2.63	-46	Clear No odor	
1230	1 14.55	1.5	7.69	18.1	3476	22.5	2.72	-37	"	
1238	2 14.55	3.0	7.37	14.4	1741	~~99.6~~	~~49.18~~	-26	"	
1242	3 14.55	4.25	7.14	14.7	1745	28.6	2.46	-10	"	
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information:										
1248	S1 14.5	~	7.03	14.7	1729	25.5	1.90	0	"	
	S2									

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

REMARKS: MW-3 MS/MSD + BD collected

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

Volume Calculation

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

Stabilization Criteria

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

PREPARED BY: TAB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: 1827 Fillmore

Project No.: B0421-020-001-002

Client: Rupp

Date: 10/28/20

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☐ pH meter	units	845	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☑ 6212375 ☐ 6243003 ☐ 6223973 ☐	TAB	4.00 7.00 10.01	3.99 7.01 9.99	4 7 10
☒ Turbidity meter	NTU	845	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☐ 17110C062619 (Q) ☒	TAB	10 NTU verification < 0.4 20 100 800	10.01	
☒ Sp. Cond. meter	uS mS	845	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☑ 6212375 ☐ 6243003 ☐ 6223973 ☐	TAB	7.000 mS @ 25 °C	7.006	7.000
☐ PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
☐ Dissolved Oxygen	ppm	845	HACH Model HQ30d	080700023281 ☐ 100500041867 ☐ 140200100319 ☒	TAB	100% Satuartion	✓	100.0 %
☐ Particulate meter	mg/m³					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: TAB **DATE:** 10/8/20

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-176301-1
Client Project/Site: 1827 Fillmore Avenue Site

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Michael Lesakowski

Authorized for release by:
10/16/2020 5:22:18 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Job ID: 480-176301-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-176301-1

Comments
No additional comments.

Receipt
The samples were received on 10/9/2020 12:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Client Sample ID: MW-1 — Lab Sample ID: 480-176301-1

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 480-176301-2

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 480-176301-3

No Detections.

Client Sample ID: Blind Dup — Lab Sample ID: 480-176301-4

No Detections.

Client Sample ID: MW-5R — Lab Sample ID: 480-176301-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030	J	0.010	0.0030	mg/L	1		6010C	Dissolved

Client Sample ID: MW-9 — Lab Sample ID: 480-176301-6

No Detections.

Client Sample ID: MW-10 — Lab Sample ID: 480-176301-7

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 480-176301-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Client Sample ID: MW-1
Date Collected: 10/08/20 16:23
Date Received: 10/09/20 12:15

Lab Sample ID: 480-176301-1
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 16:37	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Client Sample ID: MW-2
Date Collected: 10/08/20 13:46
Date Received: 10/09/20 12:15

Lab Sample ID: 480-176301-2
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 16:41	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Client Sample ID: MW-3
Lab Sample ID: 480-176301-3
Date Collected: 10/08/20 12:48
Matrix: Water
Date Received: 10/09/20 12:15

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 16:56	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Client Sample ID: Blind Dup
Date Collected: 10/08/20 17:00
Date Received: 10/09/20 12:15

Lab Sample ID: 480-176301-4
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 17:14	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Client Sample ID: MW-5R
Lab Sample ID: 480-176301-5
Date Collected: 10/08/20 14:33
Matrix: Water
Date Received: 10/09/20 12:15

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030	J	0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 17:18	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Client Sample ID: MW-9
Date Collected: 10/08/20 12:59
Date Received: 10/09/20 12:15

Lab Sample ID: 480-176301-6
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 17:22	1

Client Sample Results

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Client Sample ID: MW-10
Date Collected: 10/08/20 13:12
Date Received: 10/09/20 12:15

Lab Sample ID: 480-176301-7
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 17:25	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Client Sample ID: MW-7
Date Collected: 10/08/20 10:55
Date Received: 10/09/20 12:15

Lab Sample ID: 480-176301-8
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 17:40	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-553549/1-C
Matrix: Water
Analysis Batch: 554069

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 553826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		10/14/20 11:00	10/14/20 16:30	1

Lab Sample ID: LCS 480-553549/2-C
Matrix: Water
Analysis Batch: 554069

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 553826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.200	0.194		mg/L		97	80 - 120		

Lab Sample ID: 480-176301-3 MS
Matrix: Water
Analysis Batch: 554069

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 553826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND		0.200	0.201		mg/L		100	75 - 125		

Lab Sample ID: 480-176301-3 MSD
Matrix: Water
Analysis Batch: 554069

Client Sample ID: MW-3
Prep Type: Dissolved
Prep Batch: 553826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		0.200	0.201		mg/L		101	75 - 125	0	20

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Metals

Filtration Batch: 553549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-176301-1	MW-1	Dissolved	Water	FILTRATION	
480-176301-2	MW-2	Dissolved	Water	FILTRATION	
480-176301-3	MW-3	Dissolved	Water	FILTRATION	
480-176301-4	Blind Dup	Dissolved	Water	FILTRATION	
480-176301-5	MW-5R	Dissolved	Water	FILTRATION	
480-176301-6	MW-9	Dissolved	Water	FILTRATION	
480-176301-7	MW-10	Dissolved	Water	FILTRATION	
480-176301-8	MW-7	Dissolved	Water	FILTRATION	
MB 480-553549/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-553549/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
480-176301-3 MS	MW-3	Dissolved	Water	FILTRATION	
480-176301-3 MSD	MW-3	Dissolved	Water	FILTRATION	

Prep Batch: 553826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-176301-1	MW-1	Dissolved	Water	3005A	553549
480-176301-2	MW-2	Dissolved	Water	3005A	553549
480-176301-3	MW-3	Dissolved	Water	3005A	553549
480-176301-4	Blind Dup	Dissolved	Water	3005A	553549
480-176301-5	MW-5R	Dissolved	Water	3005A	553549
480-176301-6	MW-9	Dissolved	Water	3005A	553549
480-176301-7	MW-10	Dissolved	Water	3005A	553549
480-176301-8	MW-7	Dissolved	Water	3005A	553549
MB 480-553549/1-C	Method Blank	Dissolved	Water	3005A	553549
LCS 480-553549/2-C	Lab Control Sample	Dissolved	Water	3005A	553549
480-176301-3 MS	MW-3	Dissolved	Water	3005A	553549
480-176301-3 MSD	MW-3	Dissolved	Water	3005A	553549

Analysis Batch: 554069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-176301-1	MW-1	Dissolved	Water	6010C	553826
480-176301-2	MW-2	Dissolved	Water	6010C	553826
480-176301-3	MW-3	Dissolved	Water	6010C	553826
480-176301-4	Blind Dup	Dissolved	Water	6010C	553826
480-176301-5	MW-5R	Dissolved	Water	6010C	553826
480-176301-6	MW-9	Dissolved	Water	6010C	553826
480-176301-7	MW-10	Dissolved	Water	6010C	553826
480-176301-8	MW-7	Dissolved	Water	6010C	553826
MB 480-553549/1-C	Method Blank	Dissolved	Water	6010C	553826
LCS 480-553549/2-C	Lab Control Sample	Dissolved	Water	6010C	553826
480-176301-3 MS	MW-3	Dissolved	Water	6010C	553826
480-176301-3 MSD	MW-3	Dissolved	Water	6010C	553826

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Client Sample ID: MW-1

Lab Sample ID: 480-176301-1

Date Collected: 10/08/20 16:23
Date Received: 10/09/20 12:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 16:37	AMH	TAL BUF

Client Sample ID: MW-2

Lab Sample ID: 480-176301-2

Date Collected: 10/08/20 13:46
Date Received: 10/09/20 12:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 16:41	AMH	TAL BUF

Client Sample ID: MW-3

Lab Sample ID: 480-176301-3

Date Collected: 10/08/20 12:48
Date Received: 10/09/20 12:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 16:56	AMH	TAL BUF

Client Sample ID: Blind Dup

Lab Sample ID: 480-176301-4

Date Collected: 10/08/20 17:00
Date Received: 10/09/20 12:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 17:14	AMH	TAL BUF

Client Sample ID: MW-5R

Lab Sample ID: 480-176301-5

Date Collected: 10/08/20 14:33
Date Received: 10/09/20 12:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 17:18	AMH	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Client Sample ID: MW-9
Lab Sample ID: 480-176301-6
Date Collected: 10/08/20 12:59
Matrix: Water
Date Received: 10/09/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 17:22	AMH	TAL BUF

Client Sample ID: MW-10
Lab Sample ID: 480-176301-7
Date Collected: 10/08/20 13:12
Matrix: Water
Date Received: 10/09/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 17:25	AMH	TAL BUF

Client Sample ID: MW-7
Lab Sample ID: 480-176301-8
Date Collected: 10/08/20 10:55
Matrix: Water
Date Received: 10/09/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			553549	10/12/20 15:09	KMP	TAL BUF
Dissolved	Prep	3005A			553826	10/14/20 11:00	KMP	TAL BUF
Dissolved	Analysis	6010C		1	554069	10/14/20 17:40	AMH	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: 1827 Fillmore Avenue Site

Job ID: 480-176301-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-176301-1	MW-1	Water	10/08/20 16:23	10/09/20 12:15	
480-176301-2	MW-2	Water	10/08/20 13:46	10/09/20 12:15	
480-176301-3	MW-3	Water	10/08/20 12:48	10/09/20 12:15	
480-176301-4	Blind Dup	Water	10/08/20 17:00	10/09/20 12:15	
480-176301-5	MW-5R	Water	10/08/20 14:33	10/09/20 12:15	
480-176301-6	MW-9	Water	10/08/20 12:59	10/09/20 12:15	
480-176301-7	MW-10	Water	10/08/20 13:12	10/09/20 12:15	
480-176301-8	MW-7	Water	10/08/20 10:55	10/09/20 12:15	

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 201729

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Mike Lesnikowski	Site Contact: T. Bellscott	Date: 10/8/20	COC No:
Company Name: Benchmark Env	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
Address: 2558 Hamburg Turnpike Lackawanna	Analysis Turnaround Time			Sampler:
City/State/Zip: Lackawanna NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (716) 818-8558	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks Standard			Lab Sampling:
Project Name:	☐ 1 week			
Site: 1827 Fillmore Ave	☐ 2 days			Job / SDG No.:
PO # B0421-020-001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Dissolved Lead	Sample Specific Notes:
MW-1	10/8/20	1623	Grab	Water	1			X	Filter + preserve In Lab
MW-2		1346			1			X	
MW-3 (MS/MSD)		1248			3			X	
Blind Dup		1700			1			X	
MW-5R		1334			1			X	
MW-9		1259			1			X	
MW-10		1312			1			X	
MW-7		1055			1			X	

480-176301 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
Filter and Preserve in Lab CAT B 3.9 #1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Benchmark	10/9/20 906		DAS	10/9/20 12:15
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DAS	10/5/20 1250			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA	10/9/20 1250

10/16/2020

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-176301-1

Login Number: 176301

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

APPENDIX G

DATA USABILITY SUMMARY REPORT (DUSR)

Data Validation Services

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

April 19, 2021

Caroline Bukowski
Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike Suite 300
Buffalo, NY 14218

RE: Validation of the 1827 Fillmore Avenue Site Analytical Laboratory Data
Data Usability Summary Report (DUSR)
Eurofins TestAmerica SDG No. 480-176301-1

Dear Ms. Bukowski:

Review has been completed for the data package generated by Eurofins TestAmerica that pertains to samples collected 10/08/20 at the 1827 Fillmore Avenue site. Seven aqueous samples and a field duplicate were processed by USEPA SW846 method 6010C for dissolved lead on the filtered fraction of the samples.

The data package submitted by the laboratory contains 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 the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Method/Preparation Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)
* Initial and Continuing Calibration Standards
* Serial Dilution Evaluation
* 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 with minor qualification. Data completeness, accuracy, precision, sensitivity, representativeness, reproducibility, and comparability are acceptable.

Validation qualifier definitions and client sample identifications are attached to this text. Also included in this report is the laboratory EDD with recommended qualifiers/edits applied in red.

Blind Field Duplicate

The blind field duplicate evaluation was performed on MW-3, and correlations are within validation guidelines.

Dissolved Lead Analyses by EPA 6010C

The results for the samples are qualified as estimated due to delayed preservation that results from laboratory filtration.

The matrix spike and duplicate evaluation was performed for metals on MW-3, and show recoveries and correlation within acceptance range and limit.

The ICP serial dilution evaluation of MW-3 was not applicable due to lack of detection.

Blanks show no contamination.

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 Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS 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

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-176301-1
Project/Site: 1827 Fillmore Avenue Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-176301-1	MW-1	Water	10/08/20 16:23	10/09/20 12:15	
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480-176301-6	MW-9	Water	10/08/20 12:59	10/09/20 12:15	
480-176301-7	MW-10	Water	10/08/20 13:12	10/09/20 12:15	
480-176301-8	MW-7	Water	10/08/20 10:55	10/09/20 12:15	