

February 3, 2025

Ms. Megan Kuczka Environmental Program Specialist 1 New York State Department of Environmental Conservation Division of Environmental Remediation, Region 9 700 Delaware Avenue Buffalo, New York 14209

Re: 1827 Fillmore Avenue BCP Site No. C915279 Site Management Plan Errata Sheet

Dear Ms. Kuczka:

On behalf of 1827 Fillmore LLC, Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this Errata Sheet to the November 2019 Site Management Plan (SMP) prepared by Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC (Benchmark-TurnKey). The changes described herein as well as the attached revised tables, figures, and appendices supersede those in the approved SMP. Once approved by the New York State Department of Environmental Conservation (NYSDEC or the Department), this Errata Sheet will be included with the client's and document repository's copy of the November 2019 SMP and noted on the SMP cover page as Revision No. 1.

Roux herein updates the following components of the NYSDEC-approved November 2019 SMP.

<u>Cover Page and Table of Contents:</u> The cover page and table of contents have been revised and are included as part of this Errata.

ES Executive Summary: The Executive Summary has been revised accordingly:

"The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance and reporting activities required by this Site Management Plan:

Site Identification:	1827 Fillmore Avenue Site - C915279
Institutional Controls:	1. The property may be used for commercial and industrial use as described in 6 NYCRR Part 375-1.8(g), although land is subject to local zoning laws;

Site Identification:	1827 Fillmore Avenue Site - C915279	
	2. ICs include:	
	The property may be used for commercial use;	
	• All ECs must be operated and maintained as specified in this SMP;	
	• All ECs must be inspected at a frequency and in a manner defined in the SMP;	
	• The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;	
	• Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;	
	• 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;	
	• Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;	
	• Operation, maintenance, monitoring, inspection, and reporting of any mechanical or 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;	
	• The potential for vapor intrusion must be evaluated for any buildings developed in the area and any potential impacts that are identified must be monitored or mitigated; and	
	Vegetable gardens and farming on the site are prohibited.	
	3. All ECs must be inspected at a frequency and in a manner defined in the SMP.	
Engineering Controls:	1. Cover System	

Site Identification:	1827 Fillmore Avenue Site - C915279	
Inspections:		Frequency
1. Cover inspection		Annually
Reporting:		
2. Periodic Review Repo	rt	Triennial

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan."

Section 1.2 – Revisions: This section has been replaced with the following language:

"Revisions and alterations to this Plan will be proposed in writing to the NYSDEC's project manager. The NYSDEC can also make changes to the SMP or request revisions from the remedial party. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shut down of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the site conditions. All approved alterations must conform with Article 145 Section 7209 of the Education Law regarding the application of professional seals and alterations. For example, any changes to as-built drawings must be stamped by a New York State Professional Engineer. In accordance with the Environmental Easement for the Site, the NYSDEC project manager will provide a notice of any approved changes to the SMP and append these notices to the SMP that is retained in its files."

The following text has been added to this Section:

"The original SMP was prepared by Benchmark-TurnKey on behalf of 1827 Fillmore LLC and approved by the NYSDEC in December 2019. This SMP Errata Sheet documents decommissioning of the groundwater monitoring wells that were installed for remedial monitoring at the Site.

As part of the 2024 Periodic Review Report (PRR) submitted April 2024 and revised May 2024, Roux recommended discontinuance of groundwater sampling based on the results of the October 2023 groundwater monitoring event and revising the PRR reporting frequency from annual to triennial. In a letter dated May 17, 2024, the NYSDEC approved this request.

On July 17, 2024, monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5R, MW-7, MW-9, and MW-10 were decommissioned in accordance with NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy. Appendix B includes the monitoring well decommissioning logs. The 2024-2027 PRR will include a detailed description of the work performed."

<u>Section 1.3 – Notifications</u>: Table 1 has been revised to provide updated NYSDEC notification contact information.

The following language replaces the bullet list in this Section:

"1. 60-day advance notice of any proposed changes in site use that are required under the terms of the BCA, 6 NYCRR Part 375 and/or Environmental Conservation Law.

2. 7-day advance notice of any field activity associated with the remedial program.

3. 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan. If the ground-intrusive activity qualifies as a change of use as defined in 6 NYCRR Part 375, the above-mentioned 60-day advance notice is also required.

4. Notice within 48 hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.

5. Notice within 48 hours of any non-routine maintenance activities.

6. Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

7. Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

8. At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the BCA and all approved work plans and reports, including this SMP.

9. Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC."

Section 2.1 – Site Location and Description: The second sentence has been replaced with the following language:

"The site is an approximately 17.11-acre area and is bounded by the Kensington Expressway (Route 33) to the north with commercial and residential properties beyond; Buffalo Public School #89, Dr. Lydia T. Wright School of Excellence and athletic fields to the south with Appenheimer Avenue beyond; Erie County Medical Center (ECMC) and Buffalo Public School #84 to the east; and Fillmore Avenue to the west with commercial properties and the Kensington Expressway beyond (see Figure 2)."

Section 2.2.3 – Hydrogeology: The last sentence has been replaced with the following language:

"Figure 3 is a groundwater contour map prepared using groundwater elevation data from October 2023. Groundwater monitoring well construction logs are provided in Appendix B."

<u>Section 2.3 - Investigation and Remedial History:</u> The following language has been added to the beginning of the Section:

"The following narrative provides a remedial history timeline and a summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for each of the reports referenced below are provided in Section 8.0 – References."

<u>Section 2.3.2 – Remedial Action Activities</u>: The Section with the heading TP-25/SS-13 Area PAH-Impacted Hotspot, bullet 2 has been updated with the following language:

 "Collection of end-point samples for analysis of PAHs. End-point samples included 20 floor samples and 12 perimeter samples. All end-point samples were below the SSAL of 500 mg/kg for total PAHs (see Table 4 and Figure 6)."

<u>Section 2.5.2 – Groundwater:</u> This Section has been removed as groundwater monitoring discontinuance was approved by the NYSDEC on May 17, 2024.

Section 3.1 – General: The following language replaces the first paragraph:

"Since remaining contamination exists at the Site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the Site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC project manager."

The last bullet point has been updated with the following language:

• "Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the Site remedy, as determined by the NYSDEC project manager."

<u>Section 3.2 – Institutional Controls</u>: The bullet list in this Section has been updated with the following text:

- The property may be used for commercial use;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- 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;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or 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;

- The potential for vapor intrusion must be evaluated for any buildings developed in the area and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited."

Section 3.3.1 – Cover: This section has been updated accordingly:

"Exposure to remaining contamination at the Site is prevented by a cover system placed over the Site. This cover system is comprised of the following: 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, and an Asphalt Parking Lot – the area associated with the ECMC asphalt parking lot on the eastern portion of the Site. The cover system in this area consists of asphalt pavement and sub-base underlain by geotextile fabric. Figure 10 presents the location of the cover system and applicable demarcation layers.

The Excavation Work Plan (EWP) provided in Appendix C outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the site and provided in Appendix E. Any breach of the site's cover system must be overseen by a Professional Engineer (PE) who is licensed and registered in New York State or a qualified person who directly reports to a PE who is licensed and registered in New York State."

<u>Section 3.3.2 – Criteria for Completion of Remediation/Termination of Remedial Systems:</u> This Section has been updated with the following language:

"The Site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems, or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, criteria for completion/termination of such components are not included in this SMP."

Section 3.3.2.1 Cover System: This Section has been replaced with the following language:

"The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity."

<u>Section 4.1 – General:</u> This Section has been removed as groundwater monitoring discontinuance was approved by the NYSDEC on May 17, 2024.

<u>Section 4.2 Site-Wide Inspection</u>: This Section is now Section 4.1 and has been replaced with the following language:

"Site-wide inspections will be performed at a minimum of once per year (annually). These periodic inspections must be conducted when the ground surface is visible (i.e. no snow cover). Site-wide inspections will be performed by a qualified environmental professional as defined in 6 NYCRR Part

375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York. Modification to the frequency or duration of the inspections will require approval from the NYSDEC project manager. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs or monitoring devices. During these inspections, an inspection form will be completed as provided in Appendix F – Site Management Forms. The form will compile sufficient information to assess the following:"

The following bullet has been added to the bullet list:

 "Whether storm water management systems, such as basins and outfalls, are working as designed."

The following language replaces the last paragraph of this Section:

"Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs, occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the site, verbal notice to the NYSDEC project manager must be given by noon of the following day. In addition, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the site by a qualified environmental professional, as defined in 6 NYCCR Part 375. Written confirmation must be provided to the NYSDEC project manager within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. The Remedial Party will submit follow-up status reports to the NYSDEC within 45 days of the event on actions taken to respond to any emergency event requiring ongoing responsive action, describing and documenting actions taken to restore the effectiveness of the ECs."

<u>Section 4.3 – Post-Remediation Media Monitoring and Sampling:</u> This Section has been removed in as much as the discontinuance of groundwater monitoring was approved by the NYSDEC on May 17, 2024.

Section 5.1 General: This Section has been updated with the following language:

"The Site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems, or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP."

<u>Section 6.1 – Climate Change Vulnerability Assessment:</u> This Section has been replaced with the following language:

"Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness and protectiveness of a given site and associated remedial systems. Vulnerability assessments provide information so that the site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

This section provides a current vulnerability assessment that evaluates the vulnerability of the site and/or engineering controls to severe storms/weather events and associated flooding. This section also identifies vulnerability assessment updates that will be conducted for the Site in PRR:

- **Flood Plain:** According to the FEMA Flood Map Service Center, the Site is in an area with minimal flood hazard. This Site condition is not a threat to climate change.
- Site Drainage and Storm Water Management: Other than a portion of an asphalt paved parking lot to the east and an asphalt paved driveway on the south portion of the Site, the Site consists of a vegetated soil cover that allows for infiltration and direct communication with the aquifer.
- **Erosion:** No areas of the Site show evidence of erosion.
- **High Wind:** There are areas on-site susceptible to damage from the wind itself or falling objects, such as trees or utility structures during periods of high wind.
- **Electricity:** No areas of the Site would be susceptible to power loss and/or dips/surges in voltage during severe weather events, including lightning strikes.
- **Spill/Contaminant Release:** The Site would not be susceptible to a spill or other contaminant release due to storm-related damage caused by flooding, erosion, high winds, and/or loss of power."

<u>Section 6.2 – Green Remediation Evaluation:</u> The second paragraph has been deleted and the following Sections have been added:

Section 6.2.1 – Remedial Systems: The Site remedy did not rely on any mechanical systems.

<u>Section 6.2.2 – Building Operations:</u> Any future structures, including buildings and sheds, will be operated, and maintained to provide for the most efficient operation, while minimizing energy, waste generation, and water consumption.

Section 6.2.3 – Frequency of System Checks, Sampling and Other Periodic Activities: Transportation to and from the Site and the use of consumables in relation to visiting the Site for annual site inspections have direct and/or inherent energy costs. The schedule and/or means of the annual site inspection have been prepared so that these tasks can be accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

Section 6.2.5 - Metrics and Reporting:

As discussed in Section 7.0 and shown in Appendix F – Site Management Forms, information on energy usage, solid waste generation, transportation and shipping, water usage and land use and ecosystems will be recorded to facilitate and document consistent implementation of green remediation during site management and to identify corresponding benefits. A set of metrics has been developed and will be evaluated over time to ensure that green remediation actions are achieving the desired results.

<u>Section 6.3 – Remedial System Optimization</u>: This Section has been replaced with the following language:

"An RSO study will be conducted any time that the NYSDEC project manager or the remedial party requests in writing that an in-depth evaluation of the remedy is needed. An RSO may be appropriate if any of the following occur:

- Previously unidentified source material may be suspected;
- Site conditions change due to development, change of use, change in groundwater use, etc.; or
- There is an anticipated transfer of the site management to another remedial party or agency.

An RSO will provide a critique of a site's conceptual model, give a summary of past performance, document current cleanup practices, summarize progress made toward the site's cleanup goals, gather additional performance or media specific data and information, and provide recommendations for improvements to enhance the ability of the present system to reach RAOs or to provide a basis for changing the remedial strategy.

The RSO study will focus on overall site cleanup strategy, process optimization, and management with the intent of identifying impediments to cleanup and improvements to site operations to increase efficiency, cost effectiveness, and remedial time frames. Green remediation technology and principals are to be considered when performing the RSO."

Section 7.1 - Site Management Reports: This Section has been replaced with the following language:

"All site management inspection and maintenance events will be recorded on the appropriate site management forms provided in Appendix F. These forms are subject to NYSDEC revision. All site management inspections will be conducted by a qualified environmental professional as defined in 6NYCRR Part 375, a Professional Engineer (PE) who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.

All applicable inspection forms generated for the Site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 12 and summarized in the Periodic Review Report.

All interim inspection reports will include, at a minimum:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting monitoring/inspection activities;
- Description of the activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and
- Any observations, conclusions, or recommendations.

Routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting maintenance activities;

- Description of maintenance activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

Non-routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Description of non-routine activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

Data will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQuIS[™] database in accordance with the requirements found at this link <u>http://www.dec.ny.gov/chemical/62440.html</u>."

Additionally, Table 13 (now Table 12) has been revised to reflect the updated scheduling of monitoring/ inspections and removal of the groundwater monitoring task.

Section 7.2 – Periodic Review Report: This Section has been replaced with the following language:

"The frequency of PRR submittals is triennially as approved by NYSDEC on May 17, 2024. If the Site is subdivided into separate parcels with different ownership, a single PRR will be prepared that addresses the site described in Appendix A – Environmental Easement. The PRR will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into PRR. The report will include:

- Identification, assessment, and certification of all ECs/ICs required by the remedy for the site.
- Results of the required annual site inspections and severe condition inspections, if applicable.
- Description of any change of use, import of materials, or excavation that occurred during the certifying period.
- All applicable site management forms and other records generated for the site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- Identification of any wastes generated during the reporting period, along with waste characterization data, manifests, and disposal documentation.
- Historic data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These tables and figures will

include a presentation of all past data as part of an evaluation of contaminant concentration trends, including but not limited to:

- Trend monitoring graphs that present groundwater contaminant levels from before the start of the remedy implementation to the most current sampling data;
- Trend monitoring graphs depicting system influent analytical data on a per event and cumulative basis;
- o O&M data summary tables;
- o A groundwater elevation contour map for each gauging event.
- A site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the site-specific Decision Document;
 - Any new conclusions or observations regarding site contamination based on inspections;
 - An update to the climate change vulnerability assessment if site or external conditions have changed since the previous assessment, and recommendations to address vulnerabilities;
 - A summary of the Green Remediation evaluation, including a quantitative and qualitative overview of a site's environmental impacts and recommendations to improve the remedy's environmental footprint. The PRR will include the completed Summary of Green Remediation Metrics form provided in Appendix F; and
 - The overall performance and effectiveness of the remedy."

Section 7.4 - Remedial Optimization Report: This Section has been added:

"If an RSO is to be performed (see Section 6.3), upon completion of an RSO, an RSO report must be submitted to the NYSDEC project manager for approval. A general outline for the RSO report is provided in Appendix H. The RSO report will document the research/ investigation and data gathering that was conducted, evaluate the results and facts obtained, present a revised conceptual site model and present recommendations. RSO recommendations are to be implemented upon approval from the NYSDEC. Additional work plans, design documents, HASPs etc., may still be required to implement the recommendations, based upon the actions that need to be taken. A final engineering report and update to the SMP may also be required.

The RSO report will be submitted, in electronic format, to the NYSDEC project manager and the NYSDOH project manager."

Figures: Figure 10 (Groundwater Monitoring Plan) has been removed. The following updated figures are attached:

- Figure 3 (Groundwater Isopotential Map): Updated map with most recent groundwater data from October 2023.
- Figure 10 (Cover System Layout and Details): Updated map with most recent cover system details dated March 2024. The CAMP station location has been added to this figure.

Tables: Table 1 has been updated and Table 12 (Monitoring Well Construction Details) has been removed. Table 13 (now Table 12) has been revised to reflect an annual site inspection and triennial PRR submittal. Table 13 (Post-Remedial Groundwater Sampling Results) has been added.

<u>Appendix B – Test Pit, Boring, & Monitoring Well Construction Logs:</u> The test pit logs have been removed from Appendix B and the attached monitoring well decommissioning logs have been added.

Appendix C – Excavation Work Plan:

Section C1 – Notifications: The first paragraph has been revised accordingly:

"At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination or breach or alter the site's cover system, the site owner or their representative will notify the NYSDEC contacts listed in the table below. Table 1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix H.

Megan Kuczka	716-851-7220
NYSDEC Project Manager	Megan.kuczka@dec.ny.gov
Andrea Caprio, P.E.	716-851-7220
Hazardous Waste Remediation Engineer	Andrea.Caprio@dec.ny.gov
Kelly Lewandowski	518-402-9543
NYSDEC Site Control	Kelly.Lewandowski@dec.ny.gov
Steven Berninger	518-402-7860
NYSDOH Project Manager	Steven.Berninger@health.ny.gov

Table 1: Notifications

The bullets after Table 1 have been updated as follows:

- Bullet 5: A statement that the work will be performed in compliance with this EWP, 29CFR 1910.120, and 29CFR 1926 Subpart P;
- Bullet 8: Identification of sources of any anticipated backfill, along with the required request to import form and all supporting documentation including, but not limited to, chemical testing results.

The following paragraph has been added to the end of this Section:

"The NYSDEC project manager will review the notification and may impose additional requirements for the excavation that are not listed in this EWP. The alteration, restoration and modification of engineering controls must conform with Article 145 Section 7209 of the Education Law regarding the application professional seals and alterations."

Section C2 – Soil Screening Methods: The first paragraph has been updated accordingly:

"Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed during all excavations into known or potentially contaminated material (remaining contamination) or a breach of the cover system. A qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will perform the screening. Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC."

Section C3 – Material Excavation and Load Out: The first sentence has been updated accordingly:

"A qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State will oversee all invasive work and the excavation and load-out of all excavated material."

The following sentence has been added to the end of the third paragraph:

"A site utility stakeout will be completed for all utilities prior to any ground intrusive activities at the site."

The following sentence has been added to end of the fourth paragraph:

"Trucks transporting contaminated soil must have either tight-fitting opaque covers that are secured on the sides and/or back, or opaque covers that are locked on all sides."

The following sentence has been added to the last paragraph of this Section:

"Material accumulated from the street cleaning and egress cleaning activities will be disposed off-site at a permitted landfill facility in accordance with all applicable local, State, and Federal regulations."

Section C-5 – Material Transport Off-Site: The second paragraph has been updated accordingly:

"Material transported by trucks exiting the site will be secured with either tight-fitting opaque covers that are secured on the sides and/or back, or opaque covers that are locked on all sides. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used."

The third paragraph has been revised accordingly:

"All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport."

Section C-6: Material Disposal Off-Site: The first paragraph has been updated accordingly:

"All material excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed off-site in a permitted facility in accordance with all local, State and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal

(i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC project manager. Unregulated off-site management of materials from this site will not occur without formal NYSDEC project manager approval."

The third paragraph has been updated accordingly:

"Non-hazardous historic fill and contaminated soils taken off-site will be handled consistent with 6 NYCRR Parts 360, 361, 362, 363, 364 and 365. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State C&D debris recovery facility (6 NYCRR Subpart 361-5 registered or permitted facility)."

Section C-7 – Materials Reuse On-Site: The first paragraph and subsequent two bullets have been deleted. The following have been added as paragraphs 2 and 3:

"Proposed materials for reuse on-site must be sampled for full suite analytical parameters including perand polyfluoroalkyl substances (PFAS) and 1,4-dioxane. The sampling frequency will be in accordance with DER-10 Table 5.4(e)10 unless prior approval is obtained from the NYSDEC project manager for modification of the sampling frequency. The analytical results of soil/fill material testing must meet the site use criteria presented in NYSDEC DER-10 Appendix 5 – Allowable Constituent Levels for Imported Fill or Soil for all constituents listed, and the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (April 2023) guidance values. Approvals for modifications to the analytical parameters must be obtained from the NYSDEC project manager prior to the sampling event.

Soil/fill material for reuse on-site will be segregated and staged as described in Sections C-2 and C-3 of this EWP. The anticipated size and location of stockpiles will be provided in the 15-day notification to the NYSDEC project manager. Stockpile locations will be based on the location of site excavation activities and proximity to nearby site features. Material reuse on-site will comply with requirements of NYSDEC DER-10 Section 5.4(e)4. Any modifications to the requirements of DER-10 Section 5.4(e)4 must be approved by the NYSDEC project manager."

Section C-8 – Fluids Management: The following has been revised:

"All liquids to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed off-site at a permitted facility in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC."

Section C-9 – Cover System Restoration: The following has been added to the end of this Section:

"The alteration, restoration and modification of engineering controls must conform with Article 145 Section 7209 of the Education Law regarding the application professional seals and alterations."

Section C-10 – Backfill From Off-Site Sources: The following has been revised:

"All materials proposed for import onto the site will be approved by the qualified environmental professional, as defined in 6 NYCRR Part 375, and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project

manager allowing a minimum of 5 business days for review. A copy of the form is presented in Appendix F."

The third paragraph has been revised as follows:

"All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR 375-6.7(d) and DER-10 Appendix 5 for commercial use. Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are listed in Table 5.4(3)10. Soils that meet 'general' fill requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC project manager. Soil material will be sampled for the full suite of analytical parameters, including PFAS and 1, 4-dioxane. Solid waste will not be imported onto the site.

The text beginning with "The criteria under which..." through "Solid waste will not be imported onto the site." was deleted.

Section C-12 – Excavation Contingency Plan: The following has been added to the end of the first paragraph:

"The NYSDEC project manager will be promptly notified of the discovery."

The second sentence of the second paragraph has been updated accordingly:

"Chemical analysis will be performed for a full list of analytes [TAL metals, TCL volatiles and semivolatiles (including 1,4-dioxane), TCL pesticides and PCBs, and PFAS], unless the site history and previous sampling results provide sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC project manager for approval prior to sampling. Any tanks will be closed as per NYSDEC regulations and guidance."

The last paragraph has been updated accordingly:

"Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone within two hours to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report."

Section C-13 – Community Air Monitoring Plan: This section has been updated with the following language:

"The Community Air Monitoring Plan (CAMP) will follow the guidance provided in the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan found in Appendix 1A of NYSDEC's DER-10 *Technical Guidance for Site Investigation and Remediation*. The CAMP for this Site is included as Appendix E of this SMP. The CAMP will be implemented for all intrusive activities beneath the cover system performed at the site. A figure showing the location of air sampling stations based on generally prevailing wind conditions is shown in Figure 10. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations. VOC monitoring will be performed using a PID or other equipment that is capable of calculating 15-minute running average concentrations. All air monitoring equipment will be calibrated at least daily. The 15-minute average concentration will be compared to the levels specified below.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers."

Section C-15 – Dust Control Plan: The following paragraph has been added to the beginning of this Section:

"Particulate monitoring must be conducted according to the Community Air Monitoring Plan (CAMP) provided in Section C-13. If particulate levels at the site exceed the thresholds listed in the CAMP or if airborne dust is observed on the site or leaving the site, the dust suppression techniques listed below will be employed. The remedial party will also take measures listed below to prevent dust production on the site."

Appendix E – HASP: Appendix E has been updated accordingly:

Section 1.2 – Background: The first sentence has been revised as the following:

"The Site consists of one parcel, identified as 1827 Fillmore Avenue, totaling approximately +/- 17.11 acres, located in the City of Buffalo, Erie County, New York."

<u>Section 1.3 – Known or Suspected Environmental Conditions</u>: This section has been replaced with the following language:

"Based on the findings of the RI-AAR, as described above, remedial activities were completed in accordance with the Department approved May 2019 Remedial Action Work Plan. Details of the completed remedial activities are presented below, and more fully documented in the FER.

Benchmark-TurnKey performed bench-scale treatability tests using soil/fill from the TP-13 and SB-21 lead areas, which indicated that blending 5% Portland cement or 0.5% phosphoric acid by weight will stabilize lead to below 5 mg/L TCLP lead. Portland cement was selected as the lead stabilization amendment for the 1827 Fillmore Avenue Site. Remedial activities included (see Figure 4):

SB-21 Area Lead-Impacted Hotspot

SB-21 area lead-impacted hotspot remediation and excavation activities were completed between May 15, 2019 and June 10, 2019. The remediation and excavation activities included:

- Excavation of clean overburden soil/fill from grade to a depth of 12 fbgs and staged on-Site for reuse as backfill.
- MW-8 was properly decommissioned by Benchmark on May 17, 2019 (see Appendix B).
- Approximately 1,900 cubic yards of characteristic hazardous lead soil/fill from 12-20 fbgs in the SB-21 area was treated in-situ using Portland cement for lead stabilization in accordance with the RAWP.
- Approximately 60 tons of lead-impacted soil/fill was excavated by Zoladz Construction, Inc., (Zoladz) and transported off-Site by Gernatt Asphalt Products (9A-537) and D&H Excavating (9A-834) for disposal at Waste Management commercial landfill in Chaffee, New York.
- Based on the relatively high total lead concentration observed in SB-21, approximately 160 tons
 of soil immediately surrounding sample location SB-21 was stabilized in-situ, excavated to meet
 the site-specific action level (SSAL) of 3,900 mg/kg, and transported off-Site by Mallare
 Enterprises (9A-738), Laraba Enterprises (9A-499), and Iroquois Bar Corp. (9A-759) for
 disposal at Waste Management commercial landfill in Chaffee, New York. Remaining stabilized

soils meeting the SSALs of 3,900 mg/kg total lead and 5 mg/L TCLP lead were backfilled and recompacted at the bottom of the excavation as backfill.

- Collection of 6 post-treatment samples and analyzed for TCLP and total lead. All post treatment samples were below the TCLP lead characteristic hazardous waste threshold of 5 mg/L (see Table 2 and Figure 5).
- Collection of end-point samples for analysis of TCLP and total lead. End-point samples included 14 floor samples and 26 perimeter samples. All end-point samples were below the SSALs of 3,900 mg/kg for total lead and 5 mg/L for TCLP lead (see Table 3 and Figure 5).
- The remaining excavation was backfilled with staged overburden soils and approved soil from the on-site stockpile.

TP-25/SS-13 Area PAH-Impacted Hotspot

TP-25/SS-13 area PAH-impacted hotspot excavation activities were completed between June 5, 2019 and June 7, 2019. The excavation activities included:

- Approximately 1,800 tons of PAH-impacted soil fill was excavated to a depth of 2 fbgs and transported off-Site by Zoladz Construction (9A-499), Dulski Construction (9A-499), Pariso Trucking (9A-826), Gernatt Asphalt Products (9A-537), Mallare Enterprises (9A-738), and Laraba Enterprises (9A-499) for disposal at Waste Management commercial landfill in Chaffee, New York.
- Collection of end-point samples for analysis of PAHs. End-point samples included 20 floor samples and 14 perimeter samples. All end-point samples were below the SSAL of 500 mg/kg for total PAHs (see Table 4 and Figure 6).
- The area was backfilled using clean approved soil from the on-site stockpile.

TP-13 Area Lead-Impacted Hotspot

TP-13 area lead-impacted hotspot remediation and excavation activities were completed between May 28, 2019 and June 7, 2019. The remediation and excavation activities included:

- Excavation of clean overburden soil/fill from grade to a depth of 10 fbgs, which was staged on-Site for reuse as backfill.
- In-situ stabilization, using Portland cement, of approximately 1,300 cubic yards of characteristic hazardous lead soil/fill in TP-13 area from 10-17 fbgs in accordance with the RAWP.
- Collection of 4 post-treatment samples analyzed for TCLP lead; All post-treatment samples were non-detect (see Table 5 and Figure 7).
- Collection of end-point samples for analysis of TCLP and total lead. End-point samples included 6 floor samples and 6 perimeter samples. All end-point samples were below the SSALs of 3,900 mg/kg for total lead and 5 mg/L for TCLP lead (see Table 6 and Figure 7).
- Stabilized soils were backfilled and recompacted at the bottom of the excavation as backfill.
- The remaining hotspot area was backfilled using staged overburden soils and approved soil from the on-site stockpile.

MW-6 Area Lead-Impacted Hotspot

MW-6 area lead-impacted hotspot excavation activities were completed between June 5, 2019 and June 7, 2019. The remediation and excavation activities included:

• Excavation of clean overburden soil/fill from grade to a depth of 8 fbgs and staged on-Site for reuse as backfill.

- MW-6 was properly decommissioned by Benchmark on June 21, 2019 (see Appendix B).
- Approximately 270 tons of lead-impacted soil/fill was excavated from a depth of 8-12 fbgs and transported off-Site by Gernatt Asphalt Products (9A-537) and D&H Excavating (9A-834) for disposal at Waste Management commercial landfill in Chaffee, New York.
- Collection of end-point samples for analysis of PAHs. End-point samples included 20 floor samples and 12 perimeter samples. All end-point samples were below the SSAL of 500 mg/kg for total PAHs (see Table 4 and Figure 6).
- The area was backfilled using staged overburden soils and clean approved soil from the on-site stockpile.

Details of the completed remedial activities are presented below, and more fully documented in the FER."

Section 1.4 – Parameters of Interest: This section has been revised with the following language:

"Based on the previous investigations, previous Site uses, and RI activities, constituents of potential concern (COPCs) in soil and groundwater at the Site below the cover system above the Unrestricted Use SCOs include VOCs, SVOCs, metals, and pesticides."

Appendix F – SMP Forms: Appendix F has been updated to remove the groundwater monitoring section and add the Green Remediation Metrics Form and Request to Reuse Soil Form.

<u>Appendix G – FOPs</u>: Appendix G has been removed and has been replaced with the Remedial System Optimization Table of Contents

Appendix H – QAPP: Appendix H has been removed and replaced with a full list of site contacts.

Please contact me if you have any questions or require additional information.

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

on

Lori E. Riker, P.E. Principal Engineer

Att.

ec: John Kolaga, Esq. (Rupp Pfalzgraf LLC) Thomas Quatroche, Jr. (1827 Fillmore LLC) Jessica Dombrowski (Roux)

1827 FILLMORE AVENUE ERIE COUNTY BUFFALO, NEW YORK

SITE MANAGEMENT PLAN

NYSDEC Site Number: C915279

Prepared for:

1827 Fillmore Avenue LLC 424 Main Street, Suite 2000 Buffalo, NY 14202

Prepared by:

Roux Environmental Engineering & Geology, D.P.C. 2558 Hamburg Turnpike, Suite 300, Buffalo, NY 716-856-0599

Revisions to Final Approved Site Management Plan:

Revision	Date		NYSDEC
No.	Submitted	Summary of Revision	Approval Date
1	11/5/2024	SMP update based on groundwater sessation and triennial PRR reporting	
2	1/15/2025	Revised per NYSDEC comments	
3	2/3/2025	Revised per NYSDEC comments	

CERTIFICATION STATEMENT

I, LORI E. RIKER, P.E., certify that I am currently a NYS registered professional engineer and that this February 2025 Site Management Plan Errata Sheet was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).

P.E. DATE



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MW-5 🔴 MW-2 ● 484

Note:

- 10/11/23.



1. DEPTH TO WATER MEASUREMENTS MADE BY BENCHMARK ON

2. GROUNDWATER ELEVATIONS ARE RELATIVE TO AN ARBITRARY BENCHMARK ESTABLISHED ON SITE AT 500'.





TABLE 1

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

SITE MANAGEMENT PLAN

NOTIFICATIONS

Name	Contact Information	Required Notification**
Megan Kuczka NYSDEC Project Manager	(716) 851-7220 Megan.Kuczka@dec.ny.gov	All Notifications
Andrea Caprio, P.E. Hazardous Waste Remediation Engineer	(716) 851-7220 Andrea.Caprio@dec.ny.gov	All Notifications
Kelly Lewandowski NYSDEC Site Control	(518) 402-9543 Kelly.Lewandowski@dec.ny.gov	Notifications 1 and 8
Steven Berninger NYSDOH Project Manager	(518) 402-7860 Steven.Berninger@health.ny.gov	Notifications 4, 6, and 7

* Note: Notifications are subject to change and will be updated as necessary. ** Note: Numbers in this column reference the numbered bullets in the notification list in this section.

TABLE 12

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

SITE MANAGEMENT PLAN

SCHEDULE OF MONITORING/INSPECTION REPORTS

Task/Reporting	Reporting Frequency
Annual Site Inspection	Annually, or as otherwise approved by the NYSDEC
Periodic Review Report	Triennially



TABLE 13POST-REMEDIAL GROUNDWATER SAMPLING RESULTS

	Dissolved Lead (ug/L) ²									
LOCATION	12/7/2017	10/8/2020	10/12/23-10/13/23							
NYSDEC Class GA GWQS ¹ (ug/L)	25	25	25							
MW-1	ND	ND	ND<3.0							
MW-2	ND	ND	ND<3.0							
MW-3	ND	ND	ND<3.0							
MW-5 ³	6.2 J									
MW-5R ⁴		3 J	3.0 J							
MW-6 ³	9.9 J									
MW-7	4.3 J	ND	ND<3.0							
MW-8 ³	3.4 J									
MW-9 ⁴		ND	3.1 J							
MW-10 ⁴		ND	Dry							

1827 FILLMORE AVENUE SITE BUFFALO, NEW YORK

Notes:

1. Values per NYSDEC TOGS 1.1.1 Class GA Groundwater Quality Standards (GWQS).

2. Values were reported in mg/L and converted to ug/L for comparision purposes

3. Monitoring location was destroyed during 2019 redevelopment activites

4. Newly installed monitoring well in July 2020.

Definitions:

J = Estimated value

ND = Indicates parameter was not detected above method detection limit.

"--" = Not sampled for reason indicated in notes.

Dry = Not sampled as well remained dry after development.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-004

Site Location: 1827 Fillmore Ave. Buffalo, NY

SUBSURFACE PROFILE

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599 SAMPLE Well Completion PID

Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft	Symbol	VOCs ppm 0 12.5 25	Lab Sample	Details or Remarks
0.0	0.0	Ground Surface							
0.0	0.0 -0.2 0.2	Asphalt Asphalt							
_		Stone sub-base Dark grey, moist, mostly fine gravel, few fine sand, trace non-plastic fines, medium dense, loose when disturbed.	S1	28	0.9		0.0		
	-1.5								
	1.5	Ash/Fill	1						
		White, moist, ash.							
	-2.0					l l			
-	2.0	No Recovery							
-	-4.0 4 0		S2	8	0.0				
		Re-worked Clay with Fill. Reddish brown, moist, mostly, medium plasticity fines, some fine sand, orange brick, cinders and ash.		100			0.0		
				4			•		
5.0 —		Spoon and Auger refusal at 5.4 fbgs.	S3		0.6			Sample location	
	-5.4								
_	-3.4 5.4	End of Borehole							

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: Continuous split spoon sampling Comments: Drill Date(s): 11/27/17

Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-007

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

	SUBSURFACE PROFILE SAMPLE								
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs 0 12.5 25	Lab Sample	Well Completion Details or Remarks
	<u>-4.6</u> 4.6	Ground Surface See borehole log for MW-1. Limestone Grey to dark grey limestone bedrock, moderately hard to hard, massively bedded, moderately fractured horizontally along bedding planes total water lost approximately 150 gallons. Run #1 (4.6 - 12.4)' Length 7.8 ft. Recovery 7.7 ft percent recovered 99% rock-quality designation (RQD) 97%							2" PVC Riser 2" PVC Riser Poncrete + Poncrete + Poncrete + Poncrete + Poncrete +
	-12.4 12.4	End of Borehole							T T S

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: N/Q-2 size double tubed wireline core barrel. Comments: Drill Date(s): 7/6/18 Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-004

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

		SUBSURFACE PROFILE	SAMPLE			SAMPLE			
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs 0 12.5 25	Lab Sample	Well Completion Details or Remarks
0.0-	0.0	Ground Surface							
-	-1.0 1.0 -2.0	Asphalt Asphalt Stone sub-base Dark grey, moist, mostly fine gravel, few fine sand, trace non-plastic fines, medium dense, loose. Re-worked Clay with Fill.	S1	6	0.6		0.0		
_	-4.0	Reddish brown/dark brown, moist, mostly, medium plasticity fines, some fine sand, orange brick, cinders and ash, firm. As above.	S2	7	1.4		0.0	Sample location	
5.0-	4.0 -6.0	As above.	S3	5	1.3		0.0		
_	-7.0 7.0 -8.0	As above, stiff. <i>Well Graded Fine Sand (Non-native)</i> Black moist, mostly fine to medium sand, trace non- plastic fines, trace fine gravel (angular), medium dense,	- S4	11	1.2		0.0		
-	-10.0	loose when disturbed. As above.	S5	19	0.6		0.0		
-	-12.0	Re-worked Clay Fill As (1.0 to 2.0 fbgs) above.	S6	8	1.4		0.0		
-	12.0 -14.0	<i>Limestone Mining Talus</i> Grey, moist, mostly fine grave (lime stone), some coarse sand, loose. Spoon and Auger refusal at 14.0 fbgs.	S7	10	0.1		0.0		
	14.0	End of Borehole							
15.0									

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: Continuous split spoon sampling Comments: Drill Date(s): 11/22/17 Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-007

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

		SUBSURFACE PROFILE	S	SAMPLE		:			
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs 0 12.5 25	Lab Sample	Well Completion Details or Remarks
	<u>-14.1</u> 14.1 14.1	See borehole log for MW-2 See borehole log for MW-2 See borehole log for MW-2							2" PVC Riser

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: N/Q-2 size double tubed wireline core barrel. Comments: Drill Date(s): 7/5/18 and 7/6/18 Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-004

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

		SUBSURFACE PROFILE	SAMPLE			SAMPLE			
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs 0 12.5 25	Lab Sample	Well Completion Details or Remarks
0.0-	0.0	Ground Surface							
-	<u>-2.0</u> 2.0	Asphalt Asphalt Stone sub-base Dark grey, moist, mostly fine gravel, few fine sand, trace non-plastic fines, medium dense, loose when disturbed.	S1	18	1.1		1.6	Sample location	
_	10	Non-native sand Fill Black/brown, moist, mostly fine sand, trace non-plastic fines, glass, medium dense, loose when disturbed. As above, trace slag	S2	16	1.7		0.0		
5.0-	4.0	As above with ash.	S3	17	1.8		0.0		
-	-6.0 6.0	As above, no slag,	S4	12	1.6		0 .0		
_	-8.0 8.0	As above, sand stone fragments, loose.	S5	7	1.4		0.0		
10.0	-12.0	Re-worked Clay Fill Reddish brown, moist mostly medium plasticity fines, some fine sand, with wood, stiff.	S6	9	1.4		0.0		
_	12.0	As above.	S7	9	0.8		0.0		
15.0	14.0	As above. Spoon and Auger refusal at 15.6 fbgs.	S8	50 5	0.6		0.0		
	-15.6 15.6	End of Borehole							
							L		

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: Continuous split spoon sampling Comments: Drill Date(s): 11/22/17 Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

BENCHMARK ENVIRONMENTAL ENGINEERING &

Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-007

4.0

9.0

14.0

19.0

24.0

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

SUBSURFACE PROFILE SAMPLE PID Well Completion SPT N-Value Details Œ VOCs Lab Description Sample No. Elev. Depth Recovery Sample or (ASTM D2488: Visual-Manual Procedure) Symbol /Depth Remarks (fbgs) ppm 0 12.5 25 -1.0 Ground Surface 0.0 Concret See borehole log for MW-3 2" PVC Rise <u>-16.1</u> 16.1 Limestone First water Grey to dark grey limestone bedrock, moderately hard to hard, massively bedded, moderately fractured horizontally along bedding planes. 2" PVC Screen, 0.010" slot Total water lost approximately 400 gallons. Run #1 (16.9 - 17.8)' Length 0.9 ft. 0.9 ft Recoverv Percent recovered 100% RQD 100% Run #2 (17.8 - 25.8)' Length 8.0 ft -25.8 25.8 Recovery 7.4 ft Percent Recovered 93% RQD 96% End of Borehole

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: N/Q-2 size double tubed wireline core barrel. Comments: Drill Date(s): 7/3/18

Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

Sheet: 1 of 1



(716) 856-0599

Protective

Bentonite chips

DON Silica Sand

BENCHMARK Environmental Engineering & Science, PLLC

Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-004

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

SUBSURFACE PROFILE SAMPLE PID Well Completion SPT N-Value Details Œ VOCs Lab Description Sample No. Elev. Depth Recovery Sample or (ASTM D2488: Visual-Manual Procedure) Symbol /Depth Remarks (fbgs) ppm 0 12.5 25 -2.0 rotective Casir Ground Surface 0.0 0.0 -0.5 0.5 Concrete Sandy Lean Clay with Fill Dark brown, moist, mostly low plasticity fines, some fine sand, coal fragments, roots, massive, very stiff. S1 26 1.6 .6 Ash/fill -2.0 Brown/dark brown, moist, mostly fine sand, little nonplastic fines, little fing gravel (slag), coal fragments, medium dense. 0.0 2" PVC Riser 3.0 S2 9 1.3 Non-Native Sand and Clay with Fill Black, black moist mostly fine to medium sand, trace -4.0 4.0 Bentonite chips non-plastic fines, few fine gravels (slag), loose. As above with ash, mixed with re-worked clay, yellow 0.0 brick. S3 1.2 6 First water 14.0 fbgs -6.0 6.0 As above, orange brick, no slag. 0.0 S4 16 1.1 8.0 (15.6 to 5.6 fbgs) 2" PVC Screen, 0.010" slot -8.5 8.5 As above with concrete fragments 0.0 S5 38 1.6 -10.0 10.0 Ash/Fill White, moist, mostly ash with cinders, with brown fine 0.0 sand. S6 11 1.3 Silica Sand -12.0 12.0 As above, as above no fine sand 00N 0.0 13.0 S7 11 1.1 Sample location -14.0 14.0 100 As above. 5 0.0 S8 0.8 Spoon and Auger refusal at 15.6 fbgs. -15.6 15.6 End of Borehole

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: Continuous split spoon sampling Comments: Drill Date(s): 11/22/17 Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Benchmark Environmental Engineering & Science, PLLC

2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218

(716) 856-0599

rotective Casing

Bentonite chips

Silica Sand

NOC

Project: 1827 Fillmore Ave, Remedial Investigation

SUBSURFACE PROFILE

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-004

Elev.

/Depth

497.8

<u>496.8</u> 1.0

495.8 2.0

493.8 4.0

491.8 6.0

490.8

489.8

8.0

488.3

9.5 487.8 10.0

485.8

483.8

482.8 15.0

Depth

(fbgs)

-2.0

3.0

8.0

13.0

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

SAMPLE

Checked By:

PID Well Completion SPT N-Value Details Œ VOCs Lab Description Sample No. Recovery Sample or (ASTM D2488: Visual-Manual Procedure) Symbol Remarks ppm 0 12.5 25 Ground Surface Concrete Asphalt Asphalt S1 11 1.4 **Poorly Graded Gravel** 0.0 Grey, moist, mostly fine to coarse gravel, trace nonplastic fines, medium dense, loose when disturbed. Ash/fill 0.0 White/brown, moist, mostlly ash with cinders, loose. 2" PVC Riser S2 4 1.1 As above. As above. 0.0 S3 0.9 4 First water 14.0 fbgs As above. 0.0 S4 7 1.8 Sample Non-native Fine Sand location (15.0 to 5.0 fbgs) 2" PVC Screen, 0.010" slot Black, mostly fine sand, trace non-plastic fines, loose. Ash/fill As (6.0 to 7.0 fbgs) above, medium dense. 0.0 S5 20 1.6 Non-native Fine Sand As (7.0 to 8.0 above), medium dense. Ash/Fill 0.0 As above, loose S6 11 1.3 Fill Black, moist, mostly fine sand, some non-plastic fines, 0.0 with orange brick and cinders, loose. S7 8 0.8 100

S8 5 0.8

0.0

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: Continuous split spoon sampling Comments: Drill Date(s): 11/20/17

Spoon and Auger refusal at 15.0 fbgs.

End of Borehole

As above

Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA
Borehole Number: MW-7



Project: 1827 Fillmore Ave, Remedial Investigation

Client: Rupp, Baase, Pfalzgraf & Cunningham

Project No: 0421-017-001-004

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

Depth (fbgs) Elev. /Depth Description (ASTM D2488: Visual-Manual Procedure) i i i PID VOCs Lab Sample -2.0 - </th <th>Well Completion Details or Remarks</th>	Well Completion Details or Remarks
-2.0	asing the second s
	asin asin
505.5 Ground Surface	
0.0 Asphalt 504.5 Asphalt 1.0 Boorly Graded Gravel	Concrete
3.0 - Grey, moist, mostly fine to coarse gravel, trace non- plastic fines, medium dense, loose when disturbed.	F Pro
501.5 Fill 4.0 Black/brown, moist, mostly fine sand, little non-plastic fines, orange brick, cinders, ash, medium dense,	iser
499.5 6.0 Re-worked clay with fill	" PVC R.
Black/brown, mostly medium plasticty fines, some fine sand (black), with cinders and ash.	Cert
8.0 8.0 As above, loose. - As above, stiff. Sample	e chips
495.5	onit
- Dark brown, mostly fine sand, little non-plastic fines, orange brick, ash and cinders, coal fragments, medium	Bent
13.0 - As above. S7 17 1.6 0.0	
491.5 As above. 14.0 As above. 490.5 0.0	
15.0 Ash/fill 489.5 16.0 White, moist, mostly ash with coal fragments and	0" slot
cinders, loose, medium dense. S9 6 1.1 As above, loose. S9 6 1.1	en, 0.01
18.0 18.0 18.0 0.0 - - - - - - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - - 0.0 - 0.0 - 0.0 - - - - - - 0.0 -	VC Scre
485.5 20.0 As above.	3 fbgs) 2" F
483.5	14.
23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	(24.3 to
481.2 Was at spoon refusal from 23.5 to 24.0 fbgs, Augured 24.3 to 24.3 fbgs where Auger refusal was encountered.	
End of Borehole	

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: Continuous split spoon sampling Comments: Drill Date(s): 11/27/17 Hole Size: 8 1/2-inch. Stick-up: NA Datum: NA

Borehole Number: SB-21-10

BENCHMARK Environmental Engineering & Science, PLLC

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

(716) 856-0599

Project: 1827 Fillmore Ave, SB-21 delineation.

Client: Rupp, Baase, Pfalzgraf & Cunningham

SUBSURFACE PROFILE

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

SAMPLE

Checked By:

Well Completion PID SPT N-Value (%) Details VOCs Lab Description Sample No. Recovery (Depth Elev. Sample or (ASTM D2488: Visual-Manual Procedure) Symbol (fbgs) /Depth Remarks ppm 12.5 25 0 Ground Surface 504.2 0.0 0.0 Auger to 12.0 fbgs see MW-8 soil descriptions. 5.0 10.0 492.2 Ash/Fill Hirtst water White, moist to wet (13.0 fbgs), mostly ash, coal 0.2 fragments, loose. S1 1.3 490.2 14.0 Sample As above, dark grey, wet, wood and cinders. location 0.1 15.0 S2 1.0 488.2 16.0 As above. 0.0 S3 0.5 486.2 As above, with limestone fragments. spoon and auger refusal ant 19.5 fbgs. S4 0.1 0.8 484.7 19.5 Top of rock. 20.0 End of Borehole

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: 3 1/4 inch HSA. Comments: Drill Date(s): 3/21/19 Hole Size: 7 1/2- inch Stick-up: NA Datum: NA

Borehole Number: SB-21-11

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Project: 1827 Fillmore Ave, SB-21 delineation.

Site Location: 1827 Fillmore Ave. Buffalo, NY

Client: Rupp, Baase, Pfalzgraf & Cunningham

A.K.A.:

Logged By: TAB

Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

Depth (tbgs) Elev. (ASTM D2488: Visual-Manual Procedure) g g g g h h h h g g g h h h h g g h			SUBSURFACE PROFILE	S	SAM	PLE				
0.0 504.2 Ground Surface 0.0 Auger to 12.0 fbgs see MW-8 soil descriptions. 5.0 - 5.0 - 5.0 - 10.0 - 492.2 Black Sand 91.0 - 492.2 Black Sand 10.0 - 493.2 Black Mostly fine sand, trace non plastic fines. 91.2 - 493.2 Black Mostly fine sand, trace non plastic fines. 11.1 - 493.2 - 15.0 - 483.2 - 15.0 - 483.2 - 15.0 - 483.2 - 15.0 - 483.2 - 15.0 - 483.2 - 15.0 - 483.2 - 15.0 - 483.2 - 15.0 - 15.0 - 15.0 - 16.0 - <td>Depth (fbgs)</td> <td>Elev. /Depth</td> <td>Description (ASTM D2488: Visual-Manual Procedure)</td> <td>Sample No.</td> <td>SPT N-Value</td> <td>Recovery (%)</td> <td>Symbol</td> <td>PID VOCs 0 12.5 25</td> <td>Lab Sample</td> <td>Well Completion Details or Remarks</td>	Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs 0 12.5 25	Lab Sample	Well Completion Details or Remarks
492.2 12.0 Black Sand 491.2 Black, moist, mostly fine sand, trace non plastic fines. S1 1.1 13.0 Ash/Fill White, moist to wet (13.0 fbgs), mostly ash, coal fragments, loose. S1 1.1 490.2 14.0 As above, dark grey, wet, wood, cinders and brick. S2 1.3 15.0 488.2 As above with limestone fragments S3 0.2 486.2 18.0 Spoon and auger refusal ant 18.3 fbgs. S4 0.0 18.0 Spoon and auger refusal ant 18.3 fbgs. S4 0.0	0.0	504.2 0.0	Ground Surface Auger to 12.0 fbgs see MW-8 soil descriptions.							
15.0 488.2 16.0 As above, dark grey, wet, wood, cinders and brick. 488.2 1.3 16.0 As above with limestone fragments 486.2 18.0 20.0 End of Borehole	_	492.2 12.0 491.2 13.0 490.2	Black Sand Black, moist, mostly fine sand, trace non plastic fines. Ash/Fill White, moist to wet (13.0 fbgs), mostly ash, coal	S1		1.1		0.0		i Firist water.
486.2 18.0 Spoon and auger refusal ant 18.3 fbgs. Top of rock. S4 0.0	15.0 —	14.0 488.2 16.0	fragments, loose. As above, dark grey, wet, wood, cinders and brick. As above with limestone fragments	S2		1.3		10.2	Sample location	Ŧ
	- - 20.0-	<u>486.2</u> 18.0	Spoon and auger refusal ant 18.3 fbgs. Top of rock. End of Borehole	S3 		0.2				

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: 3 1/4 inch HSA. Comments: Drill Date(s): 3/21/19 Hole Size: 7 1/2- inch Stick-up: NA Datum: NA

Borehole Number: SB-21-12

BENCHMARK Environmental Engineering & Science, PLLC

Benchmark Environmental Engineering & Science, PLLC

2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218

(716) 856-0599

Project: 1827 Fillmore Ave, SB-21 delineation.

Client: Rupp, Baase, Pfalzgraf & Cunningham

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

Logged By: TAB

Checked By:

SUBSURFACE PROFILE SAMPLE PID Well Completion (%) SPT N-Value Details VOCs Lab Description Sample No. Depth Elev. Recovery Sample or (ASTM D2488: Visual-Manual Procedure) (fbgs) Symbol /Depth Remarks ppm 12.5 25 0 Ground Surface 504.2 0.0 0.0 Auger to 12.0 fbgs see MW-8 soil descriptions. 5.0 10.0 492.2 12.0 491.7 **Re-worked Clay** Reddish Brown, moist, mostly medium plasticity fines, Hirtst water 12.5 491.2 0.0 S1 some fine sand, with ash and cinders. 1.7 Black Sand 490.2 14.0 Black, moist, mostly fine sand, trace non plastic fines. Sample location Ash/Fill 0.6 White, moist, mostly ash, coal fragments, loose. 15.0 S2 0.7 As above, dark grey, wet (14.0 fbgs), wood, cinders 488.2 16.0 and brick. As above with limestone fragments 0.3 S3 0.3 <u>م</u>1 S4 18.0 485.7 Spoon and auger refusal ant 18.5 fbgs. 0.2 18. Top of rock. End of Borehole 20.0

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: 3 1/4 inch HSA. Comments: Drill Date(s): 3/21/19 Hole Size: 7 1/2- inch Stick-up: NA Datum: NA

Borehole Number: SB-21-13

BENCHMARK Environmental Engineering & Science, PLLC

Project: 1827 Fillmore Ave, SB-21 delineation.

Site Location: 1827 Fillmore Ave. Buffalo, NY

Client: Rupp, Baase, Pfalzgraf & Cunningham

A.K.A.:

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Checked By:

Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

SUBSURFACE PROFILE SAMPLE Well Completion PID SPT N-Value %) Details VOCs Lab Description Sample No. Depth Elev. Recovery Sample or (ASTM D2488: Visual-Manual Procedure) Symbol (fbgs) /Depth Remarks ppm 12.5 0 25 Ground Surface 0.0 0.0 Auger to 12.0 fbgs see MW-8 soil descriptions. 5.0 10.0 -12.0 12.0 **Black Sand** Black, moist, mostly fine sand, trace non plastic fines, 0.0 mixed with ash and glass S1 1.4 -14.0 14.0 Sample As above. location Firtst water. 0.0 15.0 S2 0.6 -16.0 16.0 Ash/Fill Dark grey/black, wet (16.0 fbgs), mostly ash, glass and 0.0 S3 0.7 wood fragments, with angular lime stone peicies. -<u>18.0</u> 18.0 Augered to refusal at 19.8 fbgs. -<u>19.8</u> 19.8 20.0 End of Borehole Drilled By: Earth Dimensions, Inc. Hole Size: 7 1/2- inch

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: 3 1/4 inch HSA. Comments: Drill Date(s): 3/21/19 Hole Size: 7 1/2- inch Stick-up: NA Datum: NA

Borehole Number: SB-21-9

BENCHMARK Environmental Engineering & Science, PLLC

Project: 1827 Fillmore Ave, SB-21 delineation.

Client: Rupp, Baase, Pfalzgraf & Cunningham

Site Location: 1827 Fillmore Ave. Buffalo, NY

A.K.A.:

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Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Suite 300 Buffalo, NY 14218 (716) 856-0599

		SUBSURFACE PROFILE	S	SAM	IPLE	•			
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs 0 12.5 25	Lab Sample	Well Completion Details or Remarks
0.0	504.2	Ground Surface Auger to 12.0 fbgs see MW-8 soil descriptions.							
10.0	492.2								ع
-	490.2	ASD/FIII White, moist, mostly ash, coal fragments, loose.	S1		1.2		0.1	Sample	 First wate
15.0 —	488.2	As above, wet (14.0 fbgs), wood and cinders.	S2		1.3		0.0	location	Ŧ
_	16.0 486.2	As above. EOB at 18.0 fbgs.	S3		1.1		0.0		
20.0	18.0	End of Borehole							

Drilled By: Earth Dimensions, Inc. Drill Rig Type: Diedrich D50 Drill Method: 3 1/4 inch HSA. Comments: Drill Date(s): 3/21/19 Hole Size: 7 1/2- inch Stick-up: NA Datum: NA

	4	4	4		EA	R	ГН	DIMENSIONS, INC	C.			Draft
2 F ([]	Soil and Hydrogeologic Investigations • Wetland Delineations 1091 Jamison Road • Elma, NY 14059 (716) 655-1717 • FAX (716) 655-2915 SURF. ELEVATION PROJECT 1827 Fillmore Avenue Site LOCATION City of Buffalo, Erie County, NY CLIENT Benchmark and TurnKey Companies DEPTH BLOWS ON IN FT SAMPLER											
[SN	0/ 6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CLASSIFICATION		WEL	1	WATER TABLE AND REMARKS
								Advanced bore hole without split spoon sampling to 4.6 feet. 4.6	m m m / / / / /	2-inch FJT PVC riser	~ (3) / ~ / ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	 (1) 8-inch diameter roadbox installed in small concrete pad ← 2.0' (2) Concrete (3) Bentonite seal ← 4.6'
5		Run	#1					Gray to dark gray limestone bedrock, moderately hard to hard, massively bedded, moderately fractured horizontally along bedding planes, core lengths range from (0.1–1.8'). 12.4 Coring completed at 12.4 feet.		0.010 slot 2-inch PVC screen	#00N size morie sand pack	 ← 4.6 ← 4.9' Water level at 7.1 after Run #1. Water level at 8.1 after 24 hours. Total gallons lost: 150 Total gallons removed: 60 Run Depth Length Rec Rec RQD # (ft) (ft) (ft) % %
15												1/4" ID x 7" OD hollow stem auger casing without sampling to refusal at 4.6 feet. Continued below with a NQ-2 size double tubed wireline core barrel with diamond bit to end of coring at 12.4 feet. Installed 2-inch PVC mointoring well in completed bore hole to 12.4 feet.

N=NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 Ib. WT. FALLING 30 " PER BLOW LOGGED BY Jason Kryszak, Geologist, (cns) SHEET 1 OF 2

$\left(\right)$	$\left\{ \left(\right. \right. \right.$	-((]	E A	R	FH_	DIMENSIONS, INC	C. Dr	aft
4K17a		M	1				bil and Hydrogeologic Investigations • Wetlan 091 Jamison Road • Elma, NY 14059 716) 655-1717 • FAX (716) 655-2915 MW-1-18	<i>d Delineatio</i> SUF	ns RF. ELEVATION
PROJE	CT	1827 F	illmore	Aver	ue Sit	e_	LOCATION _	_	
	3	City o	of Buf	falo, E	Erie Co	ounty, NY			
CLIEN	TB	enchm	ark ar	nd Tur	nKey	<u>Companie</u> :	DATE STARTED 07/0	<u>5/18</u> CON	1PLETED <u>07/06/18</u>
DEPTH IN FT	+	BLO SAM	WS ON PLER						
SN REC	0/ 6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CLASSIFICATION	WELL	WATER TABLE AND REMARKS
									EDI Bedrock Hardness Classification
									Moderately Hard: Can not be peeled or scraped with knife. Can be distinctly scratched with a steel nail.
									Hard: Intact hand-held specimen requires more than one hammer blow to break it. Can be faintly
25									scratched by a steel hall.
						-			
30									
					-				
					-				
					-				
35									
					-				
					-				

-

N=NUMBER OF BLOWS TO DRIVE 2_ "SPOON 12 "WITH 140 Ib. WT. FALLING 30 "PER BLOW LOGGED BY Jason Kryszak, Geologist, (cns)_ SHEET 2 OF 2

4K1 PRC	EARTH DIMENSIONS, INC. Diff Soil and Hydrogeologic Investigations • Wetland Delineations Notestations Soil and Hydrogeologic Investigations • Wetland Delineations Notestations 1091 Jamison Road • Elma, NY 14059 (716) 655-1717 • FAX (716) 655-2915 4K17a HOLE NO. MW-2-18 SURF. ELEVATION _ PROJECT 1827 Fillmore Avenue Site LOCATION _ CLIENT Benchmark and TurnKey Companies DATE STARTED 07/05/18 COMPLETED 07/06/18													
DEF IN S	DEPTH BLOWS ON IN FT SAMPLER SN 0/ 6/ 12/ 18/ N LITH DESCRIPTION AND CLASSIFICATION WELL WATER TABLE AND REMARKS RFC 6 12 18 24 N LITH DESCRIPTION AND CLASSIFICATION (1)													
				24			Advanced bore hole without split spoon sampling to 14.1 feet.		2-inch FJT PVC riser	 (1) 4-inch locking steel protective casing installed in small concrete pad 2.0' (2) Concrete Lost significant water from 14.1 to 15.7 feet. Driller noted fracture at 22.0 feet. Water level at 18.9 feet after Run #1 Water level at 19.6 feet after Run #2 Water level at 20.1 feet after 24 hours. Water level at 20.1 feet below ground surface on July 05, 2018. 				
15	Run	#1					14.1 Gray to dark gray limestone bedrock, moderately hard to hard, massively bedded, moderately fractured horizontally along bedding planes, core lengths range from (0.1–1.9').		(3)					

,

N=NUMBER OF BLOWS TO DRIVE 2_ " SPOON 12 " WITH 140 ID. WT. FALLING 30 " PER BLOW LOGGED BY Jason Kryszak, Geologist, (cns) SHEET 1 OF 2

	A	4	EA	AR	THJ	DIMENSIONS, IN	C. Draft
	4K17a PROJECT CLIENT (DEPTH	1827 Fill <u>City of</u> Benchmar BLOW	more Ave Buffalo. K and Tu	enue S Erie C IrnKey	So 10 HOLE NO ite	il and Hydrogeologic Investigations • Wetla 091 Jamison Road • Elma, NY 14059 16) 655-1717 • FAX (716) 655-2915 . <u>MW-2-18</u> LOCATION 	SURF. ELEVATION - - - - - - - - - - - - - - - - - -
	IN FT	SAMPI	-ER 12/ 18/	N	LITH	DESCRIPTION AND CLASSIFICATION	WELL WATER TABLE AND REMARKS
	REC 6 Bur W Bur <td>12 12 12 12 12 12 12 12 12 12</td> <td></td> <td></td> <td></td> <td>Gray to dark gray limestone bedrock, moderately hard to hard, massively bedded, moderately fractured horizontally along bedding planes, core lengths range from (0.1–1.9'). 27. Coring completed at 27.7 feet.</td> <td>Run Depth Length Rec Rec RQD # (ft) (ft) (ft) $\frac{1}{2}$ $\frac{1}{2}$ 14.1 1 to 8.3 8.1 98 90 22.5 22.5 2 to 5.3 4.9 92 88 27.7 00 0 22.7 22.5 2 to 5.3 4.9 92 88 27.7 Note: Advanced bore hole with 3 1/4" ID x 7" 0D hollow stem auger casing without sampling to refusal at 14.1 feet. Installed 4" flush joint casing to 14.1 feet. Continued below with a NQ-2 size double tubed wireline core barrel with diamond bit to end of coring at 27.7 feet. Installed 2-inch PVC mointoring well in completed bore hole to 26.7 feet. EDI Bedrock Hardness Classification</td>	12 12 12 12 12 12 12 12 12 12				Gray to dark gray limestone bedrock, moderately hard to hard, massively bedded, moderately fractured horizontally along bedding planes, core lengths range from (0.1–1.9'). 27. Coring completed at 27.7 feet.	Run Depth Length Rec Rec RQD # (ft) (ft) (ft) $\frac{1}{2}$ $\frac{1}{2}$ 14.1 1 to 8.3 8.1 98 90 22.5 22.5 2 to 5.3 4.9 92 88 27.7 00 0 22.7 22.5 2 to 5.3 4.9 92 88 27.7 Note: Advanced bore hole with 3 1/4" ID x 7" 0D hollow stem auger casing without sampling to refusal at 14.1 feet. Installed 4" flush joint casing to 14.1 feet. Continued below with a NQ-2 size double tubed wireline core barrel with diamond bit to end of coring at 27.7 feet. Installed 2-inch PVC mointoring well in completed bore hole to 26.7 feet. EDI Bedrock Hardness Classification
35—							Moderately Hard: Can not be pee or scraped with knife. Can be distinctly scratched with a steel nail. Hard: Intact hand-held specimen requires more than one hammer blow to break it. Can be faintly scratched by a steel nail.
30							refusal at 14.1 fr flush joint casin Continued below double tubed wi with diamond bit at 27.7 feet. Ir PVC mointoring bore hole to 26 EDI Bedrock Ha

N=NUMBER OF BLOWS TO DRIVE 2_ "SPOON 12 "WITH 140 Ib. WT. FALLING 30 "PER BLOW LOGGED BY Jason Kryszak, Geologist, (cns) SHEET 2 OF 2

4K17a PROJE CLIEN DEPTI IN FT	ECT IT E	1827 City Bench BLO SAM	Fillma of Bu mark WS OI	E A	venue Erie Turnk	HOLE N Solution HOLE N Site County. Sey Comp	DIMENSIONS, IN <i>il and Hydrogeologic Investigations</i> • Wetlan 191 Jamison Road • Elma, NY 14059 16) 655-1717 • FAX (716) 655-2915 D. MW-3-18 LOCATION NY anies	C . md De	elinec /18	Ution SURI	Draft s F. ELEVATION PLETED 07/05/18_
SN	0/ 6	6/ 12	12/ 18	18/ 24	Ν	LITH	DESCRIPTION AND CLASSIFICATION		WELL	j	WATER TABLE AND REMARKS
5							Advanced bore hole without split spoon sampling to 16.1 feet.		2-inch FJT PVC riser		(1) 4-inch locking steel protective casing installed in small concrete pad \leftarrow 2.0' (2) Concrete Water level at 17.4 feet after Run #2 Water level at 17.4 after continuous pumping for 20 minuets. Water level at 17.5 feet below ground surface on July 05, 2018. Total gallons lost: 400 Total gallons removed: 400 Run Depth Length Rec Rec RQD # (ft) (ft) (ft) % %
15					-		16.1				2 10 0.0 1.4 00 00 25.8 ← 16.1'
20	Run	#1					Apparent limestone bedrock. 16.9 Gray to dark gray limestone bedrock, moderately hard to hard, massively bedded, core lengths range from (0.1–1.7').		(3)	(4)	 ← 16.6' (3) 0.010 slot 2-inch PVC screen (4) #00N size morie sand pack

1

N=NUMBER OF BLOWS TO DRIVE 2 "SPOON 12 "WITH 140 Ib. WT. FALLING 30 "PER BLOW LOGGED BY Jason Kryszak, Geologist, (cns) SHEET 1 OF 2

	(4	7	1	EA	R'	TH I	DIMENSIONS, I	NC	2.	ė	7	Draft
4	4K17a	X	X				So 10 HOLE NO	<i>il and Hydrogeologic Investigations</i> • Wa 191 Jamison Road • Elma, NY 14059 16) 655-1717 • FAX (716) 655-2915 . <u>мw-3-18</u>	etland	d De	linea	<i>ition</i> SURF	S F. ELEVATION
F	PROJE	CT 1	827 F	illmore	<u>Aver</u>	iue Si	te_	LOCATIC	_ ис	_			
			City c	of Buf	falo, E	rie C	ounty. NY						N 5750 07/05/10
([]	CLIEN DEPTH IN FT	IT <u>B</u> e	BLON SAM	<u>ark ar</u> WS ON PLER	<u>id Tur</u> I	<u>nKey</u>	Companies	DATE STARTED	0770	3/18		COM	26160 0 <u>7703718</u>
	SN REC	0/ 6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CLASSIFICATION			WELL		WATER TABLE AND REMARKS
								Gray to dark gray limestone bedrock, moderately hard to hard, massively			een	oack	Run Depth Length Rec Rec RQD # (ft) (ft) (ft) % %
							┟ <mark>┙╌╷┙╶╷</mark> ╽	bedded, core lengths range from (0.1–1.7').			C sci	and i	17.8
		Bun	#2								ch PV	orie s	2 to 8.0 7.4 93 96 25.8
											: 2-in	ize m	
	_										0 slot	S. NOO	
25—							┍┵┯┵┰				0.01	#	
	×							Coving percent of 25 % foot	25.8	-			← 25.4 ← 25.8'
								Conng completed at 25.6 feet.					Note: Advanced bore hole with 3
													1/4" ID x 7" OD hollow stem auger casing without sampling to
													refusal at 16.9 feet. Installed 4"
													Continued below with a NQ-2 size
30—					×								with diamond bit to end of coring
													PVC mointoring well in completed bore hole to 25.4 feet.
													EDI Bedrock Hardness Classificatior
						-							Moderately Hard: Can not be peeled or scraped with knife. Can be distinctly scrated with a steel pail
						-							Steel hall.
35—													requires more than one hammer
													blow to break it. Can be faintly scratched by a steel nail.
	-					1							
						-		a.					
40					1								

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N=NUMBER OF BLOWS TO DRIVE 2_ "SPOON 12 "WITH 140 Ib. WT. FALLING 30 "PER BLOW LOGGED BY Jason Kryszak, Geologist, (cns) SHEET 2 OF 2

DRILLIN	NG LO	DG OF WELL/B	DRING NO. SB-1					Page 1 of 50				
Ducient	NL	how 12146 10/	((5)	Tata	Donth of	Uplay 12 fact	holou area	la (ftha)				
Project		tion: Kensingto	() In Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA								
Boring	Locat	tion: Northwest	corner of property	Water Encountered: NA								
Date St	art/F	inished: Augus	t 7, 2012	Water At End of Drilling: NA								
Drilling	Cont	ractor: Russo E	Development. Inc.	Equipment: PowerProbe								
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Joseph Mecca								
		,		R		D						
				I		1						
F				0		D						
1				w	1		R					
е		Well			n	R	е					
v		Completion	Soil/Rock Description	С	t	e	С					
а	D	Diagram		0	е	а	0					
t	е			u	r	d	V					
i	р			n	V	i	е					
0	t			t	а	n	r	_				
n	h			S		g	у	Comments				
					(- .)	Parts Per						
			Consumed Countries		(Feet)	Villion	(Inches)					
			Ground Surface			(PPM)	-	1				
	1		0-0.25 ftbg: Asphalt and subbase									
			0.25-2 fthg: grav gravelly clavey Fill Material (stiff, no plasticity									
			dru)									
			uryy		0-4	6.5	20					
			2-4 ftbg: brown gravelly clayey Fill Material (med stiff, low									
			plasticity, moist)									
								-				
	5											
					10	0.7	20					
NA		NA	4-9 ftbg: dark brown gravelly clayey Fill Material (medium stiff,	NA	4-8	0.7	20					
			low plasticity, moist)									
								-				
			9-10 ftbg: brown clavey Fill Material (soft, medium plasticity,									
	10		moist									
			10-11 ftbg: grav gravelly Fill Material (angular medium dense		8-12	2.7	15					
			doul					Equipment refusal encountered				
			11.12 files deal because encode and a dealer Sill Machanial /laws					at approximately 12 ftbg				
			11-12 ftbg: dark brown gravelly sandy clayey Fill Material (low									
			plasticity, medium stiff, moist)									
			\bullet				MIC					
							ME	TICAL				
							ANAL					
						4169 Att	WIRONMENTAL C	ONSULTANTS MLO, NEW YORK 14219				
						1	₽ (716) 312-8296 lh www.msanalyth	(716) 312-8092 ical.com				

DRILLI	IG LO	DG OF WELL/B	ORING NO. SB- 2					Page 2 of 50
Project	Nup			Totr	Donth of	Hole: 10 feet	bolow gray	da (ftha)
Project	Loca	Der. 121VIS-104	r()	Gro	I Deptil of	HOIE. TO TEEL	Delow giau	ie (itbg)
Roring	LUCa	tion: North of h	All Heights 1827 Fillinore Avenue, Burlaio, New Tork	Wat	er Encoun	tored: NA		
Date St	art/F	Finished Augus	+ 7 2012	Wat	er At End (of Drilling NA		
Drilling	Cont	tractor: Russo F	Development Inc	Fau	inment: Pr	werProhe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	phician: lo	senh Merca		
D	1110.							1
				В				
				w		U	R	
e		Well		vv	'n	R	e	
v		Completion	Soil/Rock Description	С	ť	e	c	
à	D	Diagram	p	0	é	a	0	
t	e	2.00		u	r	d	v	
i	D			n	v. v	i	e	
0	ť			t	a	n	r	
n	h			S	i i	g	у	Comments
		L				Parts Per		4
					(Feet)	Million	(Inches)	
1			Ground Surface			(PPM)		I
	1		0.0 E ftbg: Acabalt and cubbaca			K internet		Т
	Т		U-U.5 ftbg: Asphalt and subbase					
	l				. 🗶 👘			
						0.0	15	
	ĺ		0.5-4 ftbg: brown gravelly sandy clayey Fill Material (medium		0-4	0.5	15	
	ĺ		stiff, no plasticity, moist)					
	l			1				
						·		
	5	l	4-5 ftbg: grav Ash (soft, moist) with gravel		K			
NA		NA		NA				
	ĺ		5-8 ftbg: brown gravelly sandy clayey Fill Material (medium		4-8	0.4	15	
			stiff. low plasticity, moist)					
	ĺ				l T			
						·		
								E-minmont refused encountered
	ĺ		8-10 ftbg: brown gravelly Clay (stiff, no plasticity, moist)		8-10	0.7	15	Equipment refusal encountered
	10							at approximately 10 ftbg
		1		للمسلم	L	<u></u>	<u> </u>	<u>.</u>
						57		-
							MC	A
							MD	1
							ANALY	TICAL
						ENVI	PONMENTAL CC	SUSCIE TANTS
						4169 ALLENT	DALE PKWY. BUFFA	LO, NEW YORK 14219
							www.msanalytic	al.com

DRILLI		DG OF WELL/BO	DRING NO. SB- 3					Page 3 of 50			
Project	Nur	ber 12MC 104	(5)	Tota	l Denth of	Hole: E foot h	elow grad	a (fthg)			
Project		tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	ind Elevati	on· NA	elow graue	= (108)			
Boring	Locat	tion: Northwest	of Building B2	Wat	er Encount	tered: NA					
Date St	art/F	inished: August	t 7. 2012	Wat	er At End o	of Drilling: NA					
Drilling	Cont	tractor: Russo D	Development, Inc.	Equi	pment: Po	werProbe					
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Joseph Mecca							
E I e v a t i o n	D e p t h	Well Completion Diagram	Soil/Rock Description	B I w C o u n t s	I n t e r v a I	P I D R e a d i n g	R c o v e r y	Comments			
	1		Ground Surface		(Feet)	Parts Per Million (PPM)	(Inches)				
	1		0-0.5 ftbg: Asphalt and subbase		0-2	1.2	10				
NA		NA	0.5-4 ftbg: brown gravelly clayey Fill Material (stiff, no plastic, moist)	NA	2-4	1.2	10				
	5		4-5 ftbg: gray sandy gravelly Fill Material (angular, medium dense, moist)		4-5	1.2	6	Equipment refusal encountered at approximately 5 ftbg			
						4169 Au	NVIRONMENTAL (116) 312-0296 B WWW msand	CONSULTANTS TYALO, NEW YORG, 14219 (7/16) 132.0002 Histol com			

 \checkmark

DRILLI	NG LO	DG OF WELL/BC	DRING NO. SB-4					Page 4 of 50
Project	Nu~	abor: 12MS 104	(5)	Total Depth of Hole: 6 feet below grade (fthg)				
Project		tion: Konsingto	(.3) In Heights 1827 Fillmore Avenue, Ruffele, New York	Grou	und Flovati	noie. o ieet u	elow grade	(ILDg)
Boring		tion: Northwest	of Building A3	W/at	or Encount			
Date St	art/F	inished: August	7 2012	Wat	er At End o	of Drilling · NA		
Drilling	Cont	tractor: Russo D	evelopment Inc	Faui	inment [.] Po	werProhe		
Drilling	Met	hod: Hydraulica	ally driven system (PowerProbe)	Tech	nician: los	eph Mecca		
				D		D		
						P I		
F				0		г D		
				w	1	D	R	
e		Well		**	n	R	e	
v		Completion	Soil/Rock Description	С	t	e	c	
a	D	Diagram		0	é	a	0	
t	e			ů	r	d	v	
i	p			n	v	i	e	
0	t			t	а	n	r	
n	h			S	I	g	у	Comments
						Parts Per		
						Million	(Inches)	
			Ground Surface			(PPM)		
	1		0-0.5 ftbg: Asphalt and subbase					
			0.5-3.5 ftbg: brown gravelly clayey Fill Material (stiff, no plasticity, moist)		0-4	9.9	15	
NA		NA	3.5-4.5 ftbg: gray gravelly Sand (coarse and medium grain,	NA				
	5		medium dense, dry)		4-6	0.8	15	Equipment refusal encountered
			4.5-6 ftbg: brown gravelly Clay (stiff, low plasticity, moist)					at approximately 6 hbg
	1					1		
							MS	ICAL
						ENVIE 4169 ALLPO © (7	CONMENTAL CONS ALE PKWY. BUFFALO, 16) 312-8296 8 (716) www.msanalytical.co	ULTANTS New York 1419 312-8992 aam

DRILLI	IG LO	OG OF WELL/BC	DRING NO. SB-5					Page 5 of 50
Proiect	Num	ber: 12MS-104	(5)	Tota	l Denth of	Hole: 12.5 fee	et below gr	ade (ftbg)
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	ind Elevation	on: NA		
Boring	Locat	ion: Northwest	of Building A3	Wat	er Encount	ered: NA		
Date St	art/F	inished: August	7. 2012	Wat	er At End o	f Drilling: NA		
Drilling	Cont	ractor: Russo D	vevelopment, Inc.	Equi	pment: Po	werProbe		
Drilling	Met	nod: Hydraulica	ally driven system (PowerProbe)	Tech	nician: Jos	eph Mecca		
0		,		D		D		
				D		P		
F				0		n D		
L 1				W	1	D	P	
		Well		vv	n	R	A	
v		Completion	Soil/Rock Description	C	t	R	c	
v 2	р	Diagram	Soly Hoek Description	0	l A	е э	0	
t a	0	Diagram			r	b d	v	
i	n			n	I V	i	v o	
0	μ t			t	v	n	r	
n	ι h			ı c	1	a a	v	Comments
				5	1	9 Parts Por	J	comments
Ground Surface					(Feet)	Million	(Inches)	
						(FFIVI)		
	1		0-0.5 ftbg: Asphalt and subbase		0-4	1.6	15	
NA	5	NA	0.5-8 ftbg: brown gravelly sandy clayey Fill Material (medium stiff, no plasticity, moist)	NA	4-8	0.9	15	
	10		8-12 ftbg: gray sandy clayey gravelly Fill Material (angular, medium dense, moist)		8-12	1.0	15	
			12-12.5 ftbg. brown gravelly Clay (stiff, low plasticity, moist)		12-12.5	0.7	6	Equipment refusal encountered at approximately 12.5 ftbg
						ENVI 1169 ALLEN B (RONMENTAL COM IDALE PRIVY: BUTFALO, 116) 112 8396 10 (216 www.msanatyrical.	ICAL IULTANTS New York 1219 3013.0092 3001

DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-6					Page 6 of 50
Project	Nur	bor: 12MS 10/	1(5)	Tota	l Donth of	Holo: 12 foot	holow grad	lo (ftha)
Project		tion: Kensingto	h() nn Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	on NA	Delow grad	
Boring	Locat	tion: Southeast	of Building R4	Wat	er Encount			
Date St	art/F	inished: Augus	t 7, 2012	Wat	er At End o	of Drilling: NA		
Drilling	Cont	ractor: Russo [Development Inc.	Faui	inment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProhe)	Tech	nician: los	enh Merca		
Drining	inica			-	inician. soc			
				В		Р		
-				1		I		
E				0		D	D	
1		W/ell		W	1	D	ĸ	
e		Completion	Soil/Rock Description	<u> </u>	п +	ĸ	e	
V		Diagram	Solly Rock Description	C	ι	e	С	
a +	D	Diagrafii		0	e	d	0	
1 1	e			u	1 	u i	V	
1	p t			n +	V	1	e	
0	l h			l	a	n a	I V	Commonts
n	п			5	I	y Dauta Dau	у	comments
					(= .)	Parts Per		
	Cround Surface				(Feet)	Million	(Inches)	
		1	Ground Surface			(PPM)		1
	1		0-0.5 ftbg: Asphalt and subbase					
					0-4	1.1	15	
	5		0.5-8 ftbg: brown gravelly Clay (medium stiff, low plasticity,					
	5		moist)		K			
NA		NA		NA	4-8	0.8	15	
	10							
	10		8-12 ftbg: brown clayey Gravel (angular, medium dense, moist)		8-12	1.2	6	
					0		0	Faultament refuel encountered
								Equipment refusal encountered
								at approximately 12 ftbg
					I		1	I
							MS	and the second second
						ANALYT	ICAL	
						EM	WIRONHENTAL CONS	ULTANTS
						4169 ALL	(716) 312-8296 (5 (716) www.meanalytical.co	312.4092

DRILLI	IG LO	DG OF WELL/BO	DRING NO. SB-7					Page 7 of 50
Project	Num	abor: 12MS-104	((5)	Tota	l Denth of	Hole: 10 fee	at below gr	ade (ftha)
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	ind Elevati	$n \cdot NA$	et below gro	
Boring	Loca	tion: Southeast	of Building B6	Wat	er Encount	ered: NA		
Date St	art/F	inished: August	t 7. 2012	Wat	er At End o	of Drilling: N	A	
Drilling	Cont	tractor: Russo D	Development, Inc.	Equi	pment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nnician: Jos	eph Mecca		
		•		R		D		
				I		, i		
F				0		D.		
-				w	I	_	R	
е		Well			n	R	е	
v		Completion	Soil/Rock Description	С	t	е	С	
а	D	Diagram		0	е	а	0	
t	е			u	r	d	V	
i	р			n	V	i	e	
0	t			t	а	n	r	
n	h			S		g	у	Comments
						Parts Per		
	Crowned Surface				(Feet)	Million	(Inches)	
		1	Ground Surface	r		(PPM)	-	
	1		0-0.5 ftbg: Asphalt and subbase					
					0-4	1.3	15	
								-
	5							
NA		NA	0.5-10 ftbg: brown gravelly sandy clayey Fill Material (medium	NA				
			stiff. no plasticity, moist)				45	
					4-8	1.4	15	
								-
								Equipment refusal encountered
	10				8-10	0.5	15	at approximately 10 ftbg
	10							
				1				
							MS	
							ANALY	TICAL
						4169 ALLENDA	ONMENTAL CON ALE PRWY. BUFFAL	NSULTANTS 0, New York 14219
	•					S (71	6) 312-8296 fb (7) www.msanalytica	6) 312-8092 Leom

DRILLI	Page 8 of 50								
Droige	Nue	bor: 12NAC 104	(5)	Tota	Donth of	Holo: 7 fast	holow grad	o (fthg)	
Project		tion: Konsingto	() n Hoights 1827 Fillmara Avanua, Ruffala, Naw York	Gree	upd Elovati	noie: / reet	neiow grad	e (ILDB)	
Boring		tion: South of P	uilding B6	101D W/a+	er Encount	tered: NA			
Date St	art/F	inished: August	t 7 2012	Wat	er At End o	of Drilling: N	A		
Drilling	Cont	ractor: Russo D	Development. Inc.	Equi	ipment: Po	werProhe			
Drilling	Met	hod: Hvdraulica	ally driven system (PowerProbe)	Tech	nician: Jos	seph Mecca			
		ilour riyardano.							
				В		P			
F				0		л П			
L L				w	1	D	R		
e		Well			n	R	e		
v		Completion	Soil/Rock Description	С	t	е	С		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	v	i	е		
0	t			t	а	n	r		
n	h			S	I	g	у	Comments	
						Parts Per			
	Ground Surface					Million (PPM)	(Inches)		
	1		0.0.5. they tend where			K			
	1		0-0.5 Tug. Asphalt and subbase						
					0-4	0.3	15		
			0.5-4 ftbg: brown sandy gravelly Clay (medium stiff, low		0-4	0.5	15		
			plasticity, moist)						
NA		NA		NA					
	_								
	5								
			4-7 ftbg: brown clayey gravel Fill Material (angular, medium		4-7	0.4	20		
			dense, moist)					Equipment refusal encountered	
								at approximately / ftbg	
						1	1		
							MC		
							MD		
				1			ANALY	ILAL	
						ENVIR	ONMENTAL COM	NULTANTS	
						4169 ALLENDA	6) 312-8296 B (7)	o, New York 14219 6) 312-8092	
				1			www.msanalytica	Loom	

DRILLI	Page 9 of 50 Page 9 of 50								
Droige	Num	bor: 12NAC 104	(5)	Tota	Donth of	Holo: 7 fast	holow are	to (ftbg)	
Project		tion: Konsingto	() n Heights 1927 Fillmara Avanua, Buffala, Naw Vark	Cro	in Depth of	HOIE: 7 TEEL	. Delow grad		
Boring		tion: West of B	illding A1	W/at	ar Encount				
Date St	art/F	inished: August	1 7 2012	Wat	er At End o	of Drilling N	Δ		
Drilling	Cont	ractor: Russo D	evelopment Inc	Faui	nment: Po	werProhe	~		
Drilling	Met	hod: Hydraulica	ally driven system (PowerProbe)	Tech	nician: los	eph Mecca			
211112	iviet	ilou. Hyuruulle		1001	inician. soc				
E I e v		Well Completion	Soil/Rock Description	B I W C	l n t	P I D R e	R e c		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	V	i	е		
0	t			t	а	n	r		
n	n			S	I	g Danta Dan	у	Comments	
	Ground Surface					Million (PPM)	(Inches)		
	1		0-0.5 ftbg: Asphalt and subbase			K			
NA	-	NA	0.25-4 ftbg: brown/black sandy gravelly clayey Fill Material (stiff, no plasticity, moist)	NA	0-2 2-4	2.7 1.3	15 15		
	5		 4-6 ftbg: black/tan gravelly clayey Sand (coarse and medium grain, dense, moist) 6-7 ftbg: brown gravelly Clay (stiff, no plasticity, moist) 		4-7	17.6	15	Equipment refusal encountered at approximately 7 ftbg	
	ENTROMETAL CONSULTANTS 119 ALLESS VER BUT ALLESS 12 (714) 132-2587 HE (716) 132-2692 12 (714) 132-2692 1								

DRILLIN	RILLING LOG OF WELL/BORING NO. SB-10 Page 10 of 50								
Project	Num	ber: 12MS-104	(.5)	Tota	l Depth of	Hole: 15 fee	et below gra	ade (ftbg)	
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	on: NA			
Boring	Locat	ion: South East	of Building B2	Wat	er Encount	ered: NA			
Date St	art/F	inished: August	7, 2012	Wat	er At End o	of Drilling: N	A		
Drilling	Cont	ractor: Russo D	evelopment, Inc.	Equi	pment: Po	werProbe			
Drilling	Met	hod: Hydraulica	ally driven system (PowerProbe)	Tech	inician: Jos	eph Mecca			
F				B I		P I			
				w	I	U	R		
e		Well			n	R	e		
v		Completion	Soil/Rock Description	С	t	e	C		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	V	i	е		
0	t			t	а	n	r		
n	h			S		g	у	Comments	
						Parts Per			
	Ground Surface			1	(Feet)	Million (PPM)	(Inches)		
	1		0-0.25 ftbg: Asphalt and subbase						
			0.25-4 ftbg: dark brown gravelly Sand (coarse, medium and		0-4	7.3	15		
			fine grain, dense, moist)						
	5								
							10		
			4.11 E fthey, dark brown grouply Sand (source, mattern and		4-8	0.8	10		
NA		NA	fine grain, dense, moist) with white ash	NA					
	10				8-12	2.4	15		
			11.5-15 ftbg: white/beige Ash (soft, moist)		12.15	1 2	15	Equipment refusal encountered	
	15				12-15	1.5	15	at approximately 15 ftbg	
				[I		1	
							NG		
							ANALY	TICAL	
						ENVIR 4169 ALLEND 알 (71	ONMENTAL CON ALE PRWY. BUFFAL 6) 312-8296 lb (7) www.msanalytica	NSULTANTS o, New York 14219 (6) 312-8092 Leom	

DRILLI	NG LC	DG OF WELL/B	ORING NO. SB-11					Page 11 of 50
Project	Num	oher 12MS-10/	ni 5)	Tota	I Denth of	Hole: 20 feet	helow grad	de (fthø)
Project	Loca	ation: Kensingto	on Heights 1827 Fillmore Avenue, Buffalo, New York	Gro	und Elevati	ion: NA	DCION BIGG	
Boring	Locat	tion: East of Bu	ilding A1	Wat	er Encount	tered: NA		
Date St	art/F	inished: August	t 7, 2012	Wat	er At End o	of Drilling: N	A	
Drilling	Cont	ractor: Russo L	Jevelopment, Inc.	Equi	pment: Po	werProbe		
Drilling	lvieu	100: Hyurauno			Inician. Jos		·	
		l		B				
Е				0		D		
I				w	I		R	
е		Well	Sail/Pack Description		n	R	е	
v a	D	Diagram	SUIL NOLK DESCRIPTION		e i	e a	C O	
t	e	D105.0		u	r	d	v	
i	р			n	v	i	е	
0	t	l		t	a	n	r	
n	n	i		S	I	g Parts Per	у	Comments
					(Feet)	Million	(Inches)	
			Ground Surface		· · ·	(PPM)	· ·	
	1		0-0.25 ftbg: Asphalt and subbase					
			0.05 f (they have the all for all forgets a modium and fine grain		0-4	2.2	15	
			0.25-4 ftbg: tan/black Sand (coarse, medium and fine grain,		-			
						ļ!		4
	5							
			4-8 ftbg: black gravelly clayey Sand (coarse, medium and line		4-8	5.4	15	
			gram, medium dense, moist)					
						├ ───┤		-
			8-10 ftbg: black/tan gravelly Sand (coarse grain, medium grain,		8-10	17	10	
	10		fine grain, medium dense, moist)		0-10	1.7	10	
NA		NA		NA				4
					10-12	12	10	
					10.12	1.2	10	
		l				+		-
					12-16	1.1	15	
		l	10-20 ftbg: gray gravelly Clay (stiff, medium plasticity, moist)					
	15		with ash					
		l						
		l						
		l			16 20	1 1	6	
					10-20	1.1	U	
		l						
		<u> </u>						
							ANALY	TICAL
						ENV	RONMENTALC	ONSULTANTS
						4169 ALLEN	DALE PKWY. BUFFA	ALO, NEW YORK 14219 716) 312-8092
							www.msanalyte	cal.com

DRILLI	IG LO	DG OF WELL/BO	DRING NO. SB-12					Page 12 of 50
Project	Nur	ber: 12MS-104		Tota	Depth of	Hole: 10 fee	et below gra	ade (ftbg)
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	on: NA	Se Selow Bro	
Boring	Locat	tion: West of Bu	uilding B2	Wat	er Encount	ered: NA		
Date St	art/F	inished: August	t 8, 2012	Wat	er At End o	of Drilling: N	A	
Drilling	Cont	tractor: Russo D	Development, Inc.	Equi	pment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Rya	an Welch		
				В		P		
				Ĩ		, I		
Е				0		D		
1				w	1		R	
е		Well			n	R	е	
v		Completion	Soil/Rock Description	С	t	е	С	
а	D	Diagram		0	е	а	0	
t	е			u	r	d	V	
i	р			n	V	i	е	
0	t			t	а	n	r	
n	h			S		g	у	Comments
						Parts Per		
					(Feet)	Million	(Inches)	
	r	r	Ground Surface			(PPM)		
	1		0-0.5 ftbg: Asphalt and subbase					
					0-4	0.2	24	
			0.5.7.5 fthey are dealed being are allowed by a start start					
			0.5-7.5 ftbg: gray/dark brown gravelly sandy clayey Fill					4
	5		Material (stiff, medium to low Plasticity, moist) with some ash					
NA		NA		NA				
							20	
					4-8	0.3	20	
			7.5-8 ftbg: grav Ash (moist)					
								Equipment refusal encountered
			8-10 ftbg: gray/dark brown gravelly sand Fill Material (coarse					at approximately 10 ftbg
	10		and medium grain, medium dense, moist) with ash and rock		8-10	0.6	15	
	10		fragments					
				1				
								-
							MS	5
							ANAL	YTICAL
						4169 ALL	ENDALE PRWY. BUT	CONSULTANTS IFALO, NEW YORK 14219
							(716) 312-8296 IB www.msanaly	((716) 312-8092 rtical.com

DRILLI	DRILLING LOG OF WELL/BORING NO. SB-13 Page 13 of 50								
Droice	Num	abor: 12145 104	((5)	Tota	Donth of	Holos E fact	holow are	to (ftha)	
Project		iver: 12IVIS-104	() n Haights 1927 Fillmara Avanua, Ruffala, Naw York	Gro	upd Elovati	noie: 5 teet	. Delow grad	re (irng)	
Boring		tion: North of B	uilding B2	Wat	er Encount	tered: NA			
Date S	art/F	inished: August	t 8, 2012	Wat	er At End o	of Drilling: N	A		
Drilling	Cont	tractor: Russo F	Development. Inc.	Ean	ipment: Po	werProhe			
Drilling	Met	hod: Hvdraulic	ally driven system (PowerProbe)	Tech	nnician: Rv	an Welch			
		,	, , , , , , , , , , , , , , , , , , , ,	D		P			
				I					
F				0		D			
1				w	I	_	R		
е		Well			n	R	е		
v		Completion	Soil/Rock Description	С	t	е	С		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	V	i	е		
0	t			t	а	n	r		
n	h			S		g	у	Comments	
					(- .)	Parts Per	<i></i>		
	Ground Surface					(PPM)	(Inches)		
	4								
	T		0-0.5 ftbg: Asphalt and subbase						
			0.5-4 fthg: gray/dark brown gravelly sandy clavey Fill Material		0-4	1.0	12		
			(medium stiff medium plasticity moist) with some ash						
NA		NA	(medium still, medium plasticity, moist) with some dsh	NA					
			4-5 ftbg: brown/black gravelly sandy clayey Fill Material					Facility and the face of the second second	
			(medium stiff, low plasticity, moist) with some ash and		4-5	0.3	12	Equipment refusal encountered	
	5		fractured rock					at approximately 5 ftbg	
	ENVIRONMENTAL CONSULTANTS 1019 ALLEHOALE PRVY. BUPALO, NEW YORK 14219 1210 (16) 312-4296 II (16) 312-4296 II (16) 312-4296 WWW.INSANAJYtical.com								

DRILLI	NG LC	DG OF WELL/B	ORING NO. SB-14					Page 14 of 50		
Project	Num	nber: 12MS-104	4(.5)	Tota	otal Depth of Hole: 13 feet below grade (ftbg)					
Project	Loca	tion: Kensingtc	on Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	ion: NA				
Boring	Locat	tion: North We	st of Building A2	Wat	er Encoun	tered: NA				
Date St	art/F	inished: Augus	t 8, 2012	Wat	er At End c	of Drilling: N	A			
Drilling	Cont	tractor: Russo [Development, Inc.	Equi	pment: Po	werProbe				
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Ry	an Welch				
		· · ·		В	1	Р		Т		
					1					
F					1					
				W	l i	U	R			
		Well		vv	l n	R				
e v		Completion	Soil/Rock Description		1 t	<u>г</u>	c c			
v		Diagram	Soly Nock Description		L L	е а	L O			
a t	0	Diagraffi			r e	a d	v			
i i	e n			u n		i	v			
	μ t				v	1 n	e			
0	L b				a	11 a		Commente		
11	11	<u> </u>		5		y De très De t	у	Comments		
					()	Parts Per	<i></i>			
			Ground Surface		(Feet)	Million (PPM)	(Inches)			
							—	Т		
	1		0-0.5 ftbg: Asphait and subbase							
					i. 🝼 –					
			0.5.4.01 - hours		0-4	1.2	20			
			0.5-4 ftbg: brown gravelly sandy clayey Fill Iviaterial (medium		-					
			stiff, low to medium plasticity, moist) with some asn		1					
				[]						
						·	├───	-		
	5		4-6 ftbg: brown/black sandy clayey Fill Material (medium stiff,				l			
			low to medium plasticity, moist) with some ash and brick		4-6	1.2	15			
			debris							
								1		
NA		NA	6-8 ftbg brown Clay (medium stiff, medium plasticity, moist)	NA	6-8	0.9	15			
			0-0 ttbg. brown cidy (mediain stin, mediain plasticity, most	''''		0.5	15			
					⊢	ļ'	───	4		
					1					
					1					
	10		8-12 ftbg: brown/black clavey Fill Material (medium stiff		i					
			medium plasticity moist) with gray ash		8-12	1.3	20			
			medium pusicity, most, with gruy usin		1					
					1					
					L					
					I			Equipment refusal encountered		
			12-13 ftbg: brown sandy Clay Imedium stiff, low plasticity,		12-13	1.4	12	at approximately 13 ftbg		
			moist)							
		L			L	<u></u>	L			
				1						
				1			MS			
				1			ANAL	TICAL		
				1						
						ENV	IRONMENTAL C	ONSULTANTS		
				1		2 ((716) 312-8296 B	(716) 312-8092		
				l I			www.msanaryc	ca.com		
				4						

DRILLI	NG LO	OG OF WELL/BO	DRING NO. SB-15					Page 15 of 50
Project	Num	ober: 12MS-104	((5)	Total Depth of Hole: 19 feet below grade (ftbg)				
Project	: Loca	ation: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	on: NA	LE DEIOW BIT	
Boring	Locat	tion: North of B	uilding A3	Wat	er Encount	tered: 18 ftb	g	
Date St	tart/F	inished: August	t 8, 2012	Wate	er At End o	of Drilling: N	A	
Drilling	Cont	tractor: Russo D	Development, Inc.	Equi	pment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nnician: Ry	an Welch		
				В		Р		
-								
E				0		D	D	
P		Well		vv	n	R	R P	
v		Completion	Soil/Rock Description	С	t	e	c	
a	D	Diagram		0	e	a	0	
t	е	_		u	r	d	V	
i	р			n	V	i	е	
0	t			t	а	n	r	
n	h			S		g	у	Comments
					(=+)	Parts Per	(1	
l			Constant Conferen		(Feet)	(DDM 4)	(Incries)	
	I	1	Ground Surrace	<u> </u>		(PPIVI)		1
	1		0-0.5 ftbg: Asphalt and subbase					
			0.5-1 ftbg: brown sandy Clay Fill Material (medium stiff, low		0-4	2.9	20	
			plasticity, moist)		-			
								peelow grade (ftbg) R R e Comments inches) 20 21 22 15 15 15 12 Equipment refusal encountered at approximately 19 ftbg
	5							
	-		1.9 ftbg: dark brown sandy Fill Material (coarse medium fine		K			
			arain medium dense moist) with some gravel					
			grain, medium dense, moist, with some Fraver		4-8	2.8	22	
								4
			8-10 ftbg: brown sandy clayey Fill Material (medium stiff, low					
	10		plasticity, moist)					
NA	10	NA		NA	8-12	1.7	15	
			10-12 ftbg brown Clay (medium stiff, medium plasticity,		-			
			moist)					
			ilioist)					
l								1
l								
					12-16	2.1	15	
			12-18 ftbg: brown gravelly sandy clayey Fill material (medium					
	15		stiff, low plasticity, moist) with gray ash					
								4
l								
1					16-19	1.1	12	Faultment refusal opcountered
			18-19 ftbg· brown gravelly sandy Clay Fill (medium stiff, low					equipment refusal encountered
			nlasticity, wet) with grav ash, metal debris and fractured rock					at approximately 15 mbb
							ME	5
							ANAL	YTICAL
						F 10		
						4169 ALLE	NDALE PKWY. BUR	FALO, NEW YORK 14219 (716) 312-8092
							www.msanaly	tical.com

DRILLI	NG LO	DG OF WELL/BC	DRING NO. SB-16					Page 16 of 50	
Project	Nu~	bor: 12MS 104	(5)	Total Depth of Hole: 7 feet below grade (fthg)					
Projec		tion: Konsingto	(.5) n Haights 1827 Fillmara Avanua, Ruffala, Naw York	Ground Elevation: NA					
Boring		tion: NE of Build	ling A3						
Date S	art/F	inished: August	· 8 2012	Wat	er At End o	of Drilling: N	A		
Drilling	Cont	ractor: Russo D	evelopment Inc	Fauinment: PowerProbe					
Drilling	Met	hod: Hydraulica	ally driven system (PowerProbe)	Technician: Rvan Welch					
2		iour riyaraanee				D D			
F				I B		I D			
1				w	I	_	R		
е		Well			n	R	е		
v		Completion	Soil/Rock Description	С	t	е	С		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	V	i	е		
0	t			t	а	n	r		
n	h			S		g	у	Comments	
					(= .)	Parts Per			
Ground Surface			Ground Surface		(Feet)	(PPM)	(Inches)		
	1		0-0.5 ftbg: Asphalt and subbase						
NA		NA	0.5-6 ftbg: brown gravely sandy clayey Fill Material (medium stiff, low plasticity, moist)	NA	0-4	1.3	20		
	5		6-7 ftbg: brown gravely sandy clayey Fill Material (medium stiff, low plasticity, moist) with fractured rock		4-7	1.2	20	Equipment refusal encountered at approximately 7 ftbg	
						ENVI 1169 ALLEN ¥ (1	RONMENTAL CO DALE PEV/T. BUT 116) 312-329 (B) (B) WWW.MBABAJYDO	TICAL NSULTANTS 16) 312-8092 al.com	

DRILLI	IG LO	DG OF WELL/B	DRING NO. SB-17					Page 17 of 50		
Project	Num	abor: 12MS 10/	1/ 5)	Total Depth of Hole: 11 feet below grade (fthg)						
Project	Loca	tion: Kensingto	+(.3) on Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA						
Boring		tion: North We	st of Ruilding B4	Water Encountered: NA						
Date St	art/F	inished: Augus	t 8, 2012	Water At End of Drilling: NA						
Drilling	Cont	tractor: Russo [Development, Inc.	Equi	pment: Po	werProbe				
Drilling Method: Hydraulically driven system (PowerProbe)			ally driven system (PowerProbe)	Tech	nician: Rv	an Welch				
0		,		D		D				
				I						
F				0		D				
-				w		5	R			
е		Well			n	R	е			
v		Completion	Soil/Rock Description	С	t	е	С			
а	D	Diagram		0	е	а	0			
t	е			u	r	d	v			
i	р			n	V	i	е			
0	t			t	а	n	r			
n	h			S	Ι	g	у	Comments		
						Parts Per				
					(Feet)	Million	(Inches)			
			Ground Surface			(PPM)				
	1		0-0.5 ftbg: Asphalt and subbase		0.2	14	15			
			0.5-2 ftbg: brown sandy Clay (stiff, low plasticity, moist)		0-2	1.4	15			
			2-4 ftbg: brown Clay (medium stiff, medium plasticity, moist)		2-4	1.4	15			
NA	5	NA	4-8 ftbg: brown Clay (medium stiff, medium plasticity, moist)	NA	4-6	1.9	15			
			with black sand		6-8	2.3	15			
	10		8-10.5 ftbg: brown/ black mottled Clay (medium stiff, medium plasticity, moist) 10.5-11 ftbg: brown Sand (coarse, medium and fine grain,		8-11	0.9	22	Equipment refusal encountered at approximately 11 ftbg		
			medium dense, moist)							
						ENV 4169 ALLEN 8 (IRONMENTAL CO DRDALE PRAY, BUTRA 716) 312-8296 B (c) www.msanalyte	TICAL INSULTANTS LO, New York (4219 16) 312-8092 al.com		

DRILLI	NG LO	DG OF WELL/B	DRING NO. SB-18					Page 18 of 50		
Project	Nur	her: 12MS-10/	1(5)	Total Denth of Hole: 11 feet below grade (fthg)						
Project	Loca	tion: Kensingto	n. 9 n Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA						
Boring	Locat	tion: North of B	uilding B4	Water Encountered: NA						
Date St	art/F	inished: Augus	t 8, 2012	Water At End of Drilling: NA						
Drilling	Cont	tractor: Russo [Development, Inc.	Equi	pment: Po	werProbe				
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Ry	an Welch				
E I e v		Well Completion	Soil/Rock Description	B I W C	l n t	P I D R e	R e c			
a t i o n	D e t t	Diagram		o u n t s	e r v a I	a d i n g	o v e r y	Comments		
					(Feet)	Parts Per	(Inches)			
			Ground Surface		(1000)	(PPM)	(menes)			
	1		0-0.5 ftbg: Asphalt and subbase 0.5-4 ftbg: gray/brown gravelly sandy clayey Fill Material (stiff, no plasticity, moist)		0-4	2.9	15			
NA	5	NA	4-7 ftbg: tan/brown Sand Fill (coarse, medium and fine grain, medium dense, moist)	NA	4-8	17	20			
	10		7-11 ftbg: brown sandy Clay Fill (medium stiff, low plasticity, moist)with some ash		8-11	4.9	18	Equipment refusal encountered at approximately 11 ftbg		
						ENVIR 1169 ALLEND 2 (7)	DONMENTAL CO ALE PKWY. BUFFA 6) 312-8296 h (www.msanalytic	TICAL DNSULTANTS NG, NEW YORK 14219 716) 312-8092 zal.com		

DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-19					Page 19 of 50	
Proiect	Num	ber: 12MS-104	(.5)	Total Depth of Hole: 18 feet below grade (ftbg)					
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA					
Boring	Locat	tion: North East	of Building B4	Water Encountered: NA					
Date St	art/F	inished: August	t 8, 2012	Water At End of Drilling: NA					
Drilling	Cont	ractor: Russo D	Development, Inc.	Equi	pment: Po	werProbe			
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Ryan Welch					
				B I		P I			
E				0 W	1	D	R		
e		Well			n	R	e		
v		Completion	Soil/Rock Description	С	t	е	С		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	V	i	е		
0	t			t	а	n	r		
n	n			S		g	у	Comments	
					(5 +)	Parts Per	(1		
			Ground Surface		(Feet)		(Inches)		
						(FF WI)			
	1		0-0.5 ftbg: Asphalt and subbase						
			0.5-2 ftbg: brown gravelly sandy clayey Fill Material (stiff, low						
			nlasticity, moist) with ash		0-4	2.4	18		
			2-5 ftbg: brown/black gravelly sandy Fill Material (medium and					-	
	5		fine grain, medium dense, moist) with ash						
					4-6	3.5	12		
			E 10 fthat black gravely candy Fill Material (modium and fine		6-8	2.0	12		
			grain modium donce moist with ach						
			grant, medium dense, most with ash						
					8-10	2.5	12		
NA	10	NA		NA	0 10	2.5			
								-	
						. –			
					10-12	1.7	12		
			10-15 ftbg: gray Ash (moist)						
					12-16	2.7	15		
	4-		15-16 ftbg: black Clay (low plasticity, medium stiff, moist) with						
	12		ash						
								1	
			16-18 ftbg: black sandy Clay (soft, low plasticity, moist) with		16-18	17	6	Equipment refusal encountered	
			wood debris		10 10	1.7	0	at approximately 18 ftbg	
					1				
							MS		
							ANALY	TICAL	
						4169 ALL PM		SULTANTS	
						₽ (7	16) 312-8296 lh (71	6) 312-8092 Loom	

DRILLII	NG LO	DG OF WELL/BC	DRING NO. SB-20					Page 20 of 50
Project	Nur	ber: 12MS-104	(5)	Tota	al Denth of	Hole: 8 foo	t below gra	de (fthg)
Project		tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA				
Boring	Locat	tion: Fast of Bui	Iding B4	Water Encountered: NA				
Date St	art/F	inished: August	8. 2012	Wat	er At End o	of Drilling: N	A	
Drilling	Cont	ractor: Russo D	Development, Inc.	Eau	ipment: Po	owerProbe		
Drilling	Met	hod: Hvdraulica	ally driven system (PowerProbe)	Technician: Rvan Welch				
E I v a t	De	Well Completion Diagram	Soil/Rock Description	B I W C u	l n t e r	P I D R e a d	R e c o v	
i	р			n	v	i	е	
0 n	t h			t s	a I	n	r v	Comments
	Ground Surface				(Feet)	Parts Per Million (PPM)	(Inches)	Tonmeno
	1		0-0.5 ftbg: Asphalt and subbase			K		
ΝΔ		ΝΔ		NA	0-4	1.2	18	
	5		0.5-8 ftbg: brown gravely sandy clayey Fill Material (stiff, low plasticity, moist)		4-8	1.8	18	Equipment refusal encountered at approximately 8 ftbg
						Al69 ALLER S	IRRONMENTAL CO. NDALE PKWY. BUFFA (716) 312-8296 h (www.msanayte	TICAL PSULTANTS LSU NEW YORK 14219 716) 312-8092 al.com

DRILLII	NG LC	OG OF WELL/B	ORING NO. SB-21					Page 21 of 50	
Proiect	t Nun	nher: 12MS-10	<i>Δ</i> (5)	Tota	al Denth of	Hole: 19 fe	et helow gr	rade (fthø)	
Project	Loca	ation: Kensingto	on Heights 1827 Fillmore Avenue, Buffalo, New York	Gro	und Elevat	ion: NA	21 001011 0		
Boring	Loca	tion: East of Bu	ilding B4	Water Encountered: NA					
Date St	.art/F	inished: Augus	.t 9, 2012	Water At End of Drilling: NA					
Drilling	Cont	tractor: Russo I	Development, Inc.	Equipment: PowerProbe					
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tecr	nician: ку	an Welch		1	
				В		Р			
F				1					
L 				w			R		
e		Well			n	R	е		
v		Completion	Soil/Rock Description	С	t	е	С		
а	D	Diagram		0	е	а	0		
t	e			u	r	d	V		
	p t			n t	V	n i i	e r		
n	h			г S	a 	a	v	Comments	
	<u> </u>	<u> </u>		-	·	Parts Per	ر		
					(Feet)	Million	(Inches)		
L			Ground Surface			(PPM)			
	1		0-0.5 ftbg: Asphalt and subbase						
	'								
			0.5-3 ftbg: brown gravelly sandy Fill Material (coarse, medium		0-4	1.8	15		
			and fine grain, medium dense, moist)		07	1.0	1.5		
	'			1		'	1		
	'					†,		1	
	'				K	'	1		
l	5		3-9 fthe dark brown/black gravelly sandy Fill Material (coarse,			!	1		
l	'		medium and fine grain, medium dense, moist) with brick debris	5	4-8	2.5	18		
						'			
						'			
						·'	 	4	
	'					!			
	'		a set film and the set of the set			!			
NA	'	NA	9-11 ftog: gray/brown graveny sanuy Fin waterial (Coarse and	NA		!			
l	10		medium grain, medium dense, moisty		8-12	1.5	12		
l						'	1		
l	'		11-12 ftbg: dark brown sandy Clay Fill (medium stiff, low			'	1		
l	'		plasticity, moist) with ash			'	1		
						+		1	
	'					!			
l	15		12 16 fthe black candy Clay Fill (medium stiff, low plasticity			'	1		
l	'		12-10 ILUG. DIALK Salidy City in (Inculan stin, iow plasticity, moist) with ash		12-16	3.9	15		
l	'		molocy with dom			'	1		
						'			
l	'					·'	╂────	4	
						'			
l			16-19 ftbg: black sandy Clay Fill (medium stiff, low plasticity,		16-19	3.5	12	E utament refused appountored	
	'		moist) with ash and wood debris				1	Equipment refusal encountered	
							l	at approximately 19 mbg	
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							ANAL T	TICAL	
						ENVIR	ONMENTAL C	ONSULTANTS	
l						4169 ALLENDA 율 (71	ALE PKWY. BUFFA	ALO, NEW YORK 14219 (716) 312-8092	
						2	www.msanalytic	cal.com	

DRILLI	NG LO	OG OF WELL/BO	DRING NO. SB-22					Page 22 of 50	
Project	Num	her: 12MS-104	((5)	Total Denth of Hole: 19 feet below grade (fthg)					
Project	Loca	ition: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA					
Boring	Locat	tion: North East	t of Building A5	Water Encountered: NA					
Date S	:art/F	inished: Augus	t 9, 2012	Water At End of Drilling: NA					
Drilling	Cont	tractor: Russo D	Development, Inc.	Equi	pment: Po	werProbe			
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	lechnician: Ryan Welch					
F				B I		P I D			
I				w	I	U	R		
е		Well			n	R	е		
V		Completion	Soil/Rock Description	С	t	е	С		
a +	D	Diagram		0	e	a	0		
i i	e n			u n	I V	i	V		
0	t			t	a	n	r		
n	h			S	I	g	у	Comments	
					(Feet)	Parts Per Million	(Inches)		
		n	Ground Surface			(PPM)			
	1		0-0.5 ftbg: Asphalt and subbase		0.4		12		
			0.5-4 ftbg: brown/dark brown sandy Fill Material (medium and fine grain, medium dense, moist)		0-4	1.1	12		
	5		4-8 ftbg: dark brown gravelly sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with trace ash		4-8	2.1	18		
NA	10	NA	8-12 ftbg: brown/dark brown sandy Fill Material (coarse, medium and fine grain, medium dense, moist)	NA	8-12	2.1	12		
	15		12-16 ftbg: brown/dark brown gravelly Sand Fill (coarse, medium and fine grain, medium dense, moist) with trace ash		10-12	3.0	12		
			16-19 ftbg: dark brown sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with brick debris		14-16	1.3	10	Equipment refusal encountered at approximately 19 ftbg	
		L				·			
						ENVIRO 4169 ALLEINDAL © (716	MENTAL CO I. E PKWY. BUFFAI) 312-8296 Ih (7 vyww.msanalyticz	TICAL NSULTANTS NSULTANTS NSULTANTS 14219 14.000	

DRILLII	NG LO	DG OF WELL/B	DRING NO. SB-23					Page 23 of 50		
Project	Num	her: 12MS-10/	1(5)	Tota	l Depth of	Hole: 9 feet	helow grad	e (fthg)		
Project	Loca	ition: Kensingto	n. J.	Ground Elevation: NA						
Boring	Loca	tion: South East	t of Building B4	Water Encountered: NA						
Date St	art/F	inished: Augus	t 9, 2012	Water At End of Drilling: NA						
Drilling Contractor: Russo Development, Inc.			Equi	ipment: Po	werProbe					
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nnician: Ry	an Welch				
		, I		B	,	D				
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F				0		D				
1				w	1	D	R			
e		Well			n	R	e			
v		Completion	Soil/Rock Description	С	t	е	С			
а	D	Diagram		0	е	а	0			
t	е			u	r	d	V			
i	р			n	v	i	е			
0	t			t	а	n	r			
n	h			S	I	g	у	Comments		
						Parts Per				
					(Feet)	Million	(Inches)			
			Ground Surface			(PPM)				
	1		0-0.5 ftbg: Asphalt and subbase							
			0.5-4 ftbg: brown gravelly sandy clayey Fill Material (stiff, no plasticity, moist)		0-4	2.3	15			
NA	5	NA	4-8 ftbg: dark brown gravelly sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with brick debris and wire debris	NA	4-8	1.8	20			
			8-9 ftbg: dark brown gravelly sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with brick debris with fractured rock		8-9	1.6	10	Equipment refusal encountered at approximately 9 ftbg		
						ENVIRG 4169 ALLENDA 2 (710	COMMENTAL CO LE PKWY. BUFFAI 0) 312-8296 h (7 www.msanalytica	TICAL SULTANTS .0, NEW YORK 14219 16) 312-8092 al.com		

DRILLI		DG OF WELL/BO	DRING NO. SB-24					Page 24 of 50			
Dura in 1	N			T -4	Denth (U.J. 26					
Project	Num	iber: 12MS-104	H(.5)	Ground Elevation: NA							
Project	Locat	tion: Kensingto	ilding AF	Ground Elevation: NA Water Encountered: NA							
Dote St	art/E		t 0 2012	Water Encountered: NA							
Drilling Contractor: Russo Development, Inc.				Water At End of Drilling: NA							
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Ryan Welch							
Drining											
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г											
				W	1	D	D				
P		Well		vv	n	R	P N				
v		Completion	Soil/Rock Description	С	t	e	c				
a	D	Diagram		0	e	a	0				
t	e			u	r	d	v				
i	р			n	v	i	е				
0	t			t	а	n	r				
n	h			s	I	g	у	Comments			
						Parts Per					
					(Feet)	Million	(Inches)				
			Ground Surface			(PPM)					
NA	1	NA	0-0.5 ftbg: Asphalt and subbase 0.5-3 ftbg: brown gravelly sandy clayey Fill Material (medium stiff, low plasticity, moist)	NA	0-3	0.8	10	Equipment refusal encountered at approximately 3 ftbg			
							MS	FICAL			
						ENVI 4169 ALLEN 알 (7	RONMENTAL CON DALE PKWY. BUFFALC (16) 312-8296 III (71 www.msanalytical	ISULTANTS 0, New Yosk, (4219 6) 12:092 .com			
DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-25					Page 25 of 50			
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Proiect	Num	ber: 12MS-104	1(5)	Total Depth of Hole: 19 feet below grade (ftbg)							
Project	Loca	tion: Kensingto	on Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA							
Boring	Locat	tion: South East	t of Building A5	Water Encountered: NA							
Date St	art/F	inished: Augus	t 9, 2012	Water At End of Drilling: NA							
Drilling	Cont	tractor: Russo L	Jevelopment, Inc. ally driven system (PowerProbe)	Equipment: PowerProbe							
Drining	IVIEL	nou. nyuraune		D							
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I		Mall		W	I		R				
e		Completion	Soil/Back Description	c	n +	R	e				
a	D	Diagram		0	e	a	0				
t	е			u	r	d	V				
i	р			n	V	i	е				
0	t h			t	a	n	r	Comments			
	п			3	I	9 Parts Per	у	comments			
					(Feet)	Million	(Inches)				
			Ground Surface			(PPM)					
	1		0-0.5 ftbg: Asphalt and subbase								
			0.5.4 ftbg: brown gravelly sandy clavey Fill Material (medium		0-4	1.7	15				
			stiff, low plasticity, moist) with brick debris								
								-			
	5										
			4-7 ftbg: brown gravelly sandy clayey Fill Material (medium								
			stiff, low plasticity, moist)		4-8	1.7	15				
			7-8 ftbg: brown Clay (medium stiff, medium plasticity, moist)								
								-			
	10										
			8-12 ftbg: brown/dark brown gravelly sandy clavey Fill Material								
NA		NA	(stiff, low plasticity, moist)	NA	8-12	2.1	12				
			12-16 ftbg: brown/dark brown gravelly sandy clayey Fill		12.10	2.2	15				
			Material (medium stiff, low plasticity, moist)		12-10	2.2	15				
	15										
			16-17.5 ftbg: brown/ black mottled Clay (medium stiff, medium								
			plasticity, moist)								
					16-19	2.2	15				
			17.5-19 ftbg: brown/black sandy Fill Material (medium and fine					Equipment refusal encountered			
			grain, medium dense, moist)					at approximately 19 ftbg			
			1		l						
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							MS				
							ANALY	TICAL			
						ENV		DNSULTANTS			
						4169 ALLE	DALE PKWY. BUFFA (716) 312-8296 11 (ALO, NEW YORK 14219 716) 312-8092			
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DRILLIN	IG LC	DG OF WELL/B	DRING NO. SB-26					Page 26 of 50	
Project	Nun	nber: 12MS-104		Tota	al Depth of	Hole: 14 fee	t below gra	de (ftbg)	
Project	Loca	ation: Kensingto	on Heights 1827 Fillmore Avenue, Buffalo, New York	Groi	und Elevati	ion: NA			
Boring	Loca	tion: South of b	puilding A5	Water Encountered: NA					
Date St	art/F	inished: Augus	t 9, 2012	Wat	er At End c	of Drilling: N	A		
Drilling	Con	tractor: Russo [Development, Inc.	Equipment: PowerProbe					
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Rv	an Welch			
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	ı '	1 '	'	W			R		
е	1 '	Well	'	1 1	n	R	е		
v	1 '	Completion	Soil/Rock Description	I C	t	е	С		
а	D	Diagram	'	10	е	а	0		
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	l n '	1 '	'	l n l		i			
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U		1 '	'		a	11			
n	n	<u>'</u> '	<u> </u>	S		g	у	Comments	
i i						Parts Per			
			Ground Surface		(Feet)	Million (PPM)	(Inches)		
 	<u> </u>								
1 '	1	1 '	0-0.5 ftbg: Asphalt and subbase	1 1					
1 '	1 '	1 '	- · · · · · · · · · · · · · · · · · · ·	1 1				1	
j i	1 '	1 '	0.5-3 ftbg: brown gravelly sandy clavey Fill Material (stiff, low	1]					
j i	1 '	1 '	nlacticity majet)	1	0-4	1.1	18		
i '	1 '	1 '	μίασισιν, ποιου		ſ '				
į '	1 '	1 '	1	1	1 🔺 '				
1 '	1 '	1 '	2-5 ftbg: tan/brown gravelly sandy Fill Material (coarse and	<u> </u>					
1 '	1 '	1 '	5-5 Huge tail brown gravely standy i in material (searce and	I 📐		·	───		
1 '	5	1 '	mealum grain, mealum dense, moist,						
1 '	1 '	1 '	1	1	·				
1 '	1 '	1 '		1 7					
1 '	i '	1 '		1 1	4-8	0.7	18		
1 '	1 '	1 '			L 💌 !				
NA	1 '	NA		NA					
1 '	1 '	1 '		1.1					
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i '	i '	1 '		1 '	1				
1 '	1 '	1 '		1 1	1				
1 '	10	1 '	5-14 ftbg: brown gravelly sandy clayey Fill Material (medium	1 1	1				
1 '	10	1 '	stiff, low plasticity, moist)	1 1	8-12	14	15		
1 '	1 '	1 '		1 1	0-12	1.4	13		
i '	i '	1 '		1 '	1				
1 '	i '	1 '		1 1	1		1		
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1 '	1 '	1 '		1 1				1	
1 '	1 '	1 '		1 1	12.14	2.2	<i>c</i>	Equipment refusal encountered	
1 '	1 '	1 '	I — /	1 1	12-14	2.3	ь	at approximately 14 ftbg	
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1			,	1			www.msanalyte	cal.com	

DRILLII	NG LO	DG OF WELL/BO	DRING NO. SB-27					Page 27 of 50	
Proiect	Num	ber: 12MS-104	(.5)	Total Depth of Hole: 14 feet below grade (ftbg)					
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	on: NA	et belott 8		
Boring	Loca	tion: South East	of Building B6	Water Encountered: NA					
Date St	art/F	inished: Augus	t 9, 2012	Water At End of Drilling: NA					
Drilling	Cont	tractor: Russo D	Development, Inc.	Equipment: PowerProbe					
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	inician: Rya	an Welch	1		
F				B I		P I D			
				w	I	U	R		
е		Well			n	R	е		
V		Completion	Soil/Rock Description	С	t	е	С		
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t	e			u	r	d	V		
0	p t			n t	V	l n	e		
n	h			S	l	a	v	Comments	
						Parts Per	,		
			Ground Surface		(Feet)	Million (PPM)	(Inches)		
	1		0-0.5 ftbg: Asphalt and subbase						
			0.5-1.5 ftbg: gray gravely sandy clayey Fill Material (stiff, no plasticity, moist)		0-4	18	15		
			1.5-4 ftbg: black gravelly sandy clayey Fill Material (medium stiff, low plasticity, moist) with ash			1.0	15		
			4-5 ftbg: dark brown gravelly sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with ash					-	
NA	5	NA	5-9 ftbg: dark brown gravelly sandy Fill Material (coarse, medium and fine grain, medium dense, moist)	NA	4-8	1.7	15		
			9-11 ftbg: brown sandy clayey Fill Material (medium stiff, low		8-12	1.9	18		
	10		11-13 ftbg: black sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with brick debris and wood debris					-	
			13-14 ftbg: brown gravelly Clay Fill (medium stiff, low plasticity, moist)		12-14	1.3	15	Equipment refusal encountered at approximately 14 ftbg	
						Enviri A169 ALLENC © (7	RONMENTAL CO JALE PKWY. BUFF JIG) 312-8296 P WWW.msanalyt	ONSULTANTS ALO, NEW YORK 14219 (716) 312-0092 ical.com	

DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-28					Page 28 of 50	
Project	· Nur	ber: 12MS-104	(5)	Tota	l Denth of	Hole: 8 foot	below grad	e (ftha)	
Projec		tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Gro	und Elevati	ion: NA	Delow grau	e (Itbg)	
Roring		tion: South Wes	t of Building B6	Wat	er Encount	tered: NA			
Date S	art/F	inished: August	19. 2012	Water At End of Drilling: NA					
Drilling	Cont	tractor: Russo D	Development. Inc.	Eau	ipment: Po	werProbe			
Drilling	Met	hod: Hvdraulic	ally driven system (PowerProbe)	Technician: Rvan Welch					
						D			
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F				0		, D			
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e		Well			n	R	e		
v		Completion	Soil/Rock Description	С	t	е	с		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	V	i	е		
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n	h			S	I	g	у	Comments	
					<i>i</i>	Parts Per			
			Ground Surface		(Feet)	(PPM)	(Inches)		
	1		0.0 E fthe Asphalt and subhasa						
NA	_	NA	0.5-5 ftbg: brown/dark brown gravelly sandy clayey Fill Material (medium stiff, low plasticity, moist) with some ash	NA	0-4	1.6	12		
	5		5-8 ftbg: dark brown/black gravelly Sand Fill (coarse, medium and fine grain, medium dense, moist)		4-8	1.8	12	Equipment refusal encountered at approximately 8 ftbg	
	EVROMENTAL CONSULTANTS (16) 312-8296 (B (716) 312-8092 WW.msanalytical.com								

DRILLI		DG OF WELL/BO	DRING NO. SB-29					Page 29 of 50		
Project	Nur	abor: 12145 104		Tota	al Denth of		et helow a	rade (fthg)		
Project		tion: Kensingto	() No Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevat	ion: NA	et below gi	ade (itbg)		
Boring	Locat	tion: South Wes	at of Building B6	Water Encountered: NA						
Date St	art/F	inished: August	t 9, 2012	Water At End of Drilling: NA						
Drilling	Cont	tractor: Russo D	Development Inc.	Equipment: PowerProbe						
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Ryan Welch						
8				D		D				
				В		P				
F				0		D				
1				w		D	R			
e		Well			n	R	e			
v		Completion	Soil/Rock Description	С	t	е	C			
а	D	Diagram		0	е	а	0			
t	е	_		u	r	d	v			
i	р			n	v	i	е			
0	t			t	а	n	r			
n	h			S	1	g	у	Comments		
						Parts Per				
					(Feet)	Million	(Inches)			
	Ground Surface					(PPM)				
	1		0-0.5 ftbg: Asphalt and subbase			K				
NA		NA	0.5-1.5 ftbg: grav/brown sandy Clay Fill (medium stiff. low	NA	0-1.5	1.2	12	Equipment refusal encountered		
			plasticity, moist) with some ash					at approximately 1.5 ftbg		
	plasticity, moist, with some ash									
							MS			
								TICAL		
				\frown						
						ENVIR	ONMENTAL CO	NSULTANTS		
						4169 ALLEND	ALE PKWY. BUFFA	Lo, New York 14219		

DRILLI	Page 30 of 50 Page 30 of 50									
Project	Nur	ber: 12MS_10/		Total Depth of Hole: 2 feet below grade (fthg)						
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA						
Boring	Locat	tion: South We	st of Building B6	Water Encountered: NA						
Date St	art/F	inished: Augus	t 9, 2012	Water At End of Drilling: NA						
Drilling	Cont	ractor: Russo [Development Inc.	Equipment: PowerProbe						
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Ryan Welch						
8				D		D				
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г				0						
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v		Completion	Soil/Rock Description	C	t	A	c			
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				5		Parts Per	y	connents		
					(Feet)	Million	(Inches)			
			Ground Surface			(PPM)				
	1		0-0.5 ftbg: Asphalt and subbase			K				
	-		0 0.5 Tibe. Asphart and Subbase							
NA		NA	0.5-2 ftbg: dark brown gravelly sandy clavey Fill Material (stiff	NA	0-2	0.7	15	Equipment refusal encountered		
			low plasticity moist) with some ash					at approximately 2 ftbg		
low plasticity, moist) with some ash at approximately 2 ft										
	ENTROMENTAL CONSULTANTS R169 ALIKONALE PKWY, BUFFALO, NEW YORK 14219 @(716) 312-8256 #(716) 31256 #(716) 312-8									

DRILLI	NG LO	DG OF WELL/BC	DRING NO. SB-31					Page 31 of 50		
Project	Nur	ber 12MC 104	(5)	Total Depth of Heley 2 feet below grade (fibe)						
Project		tion: Konsingto	(.5) n Hoights 1827 Eillmara Avanua, Ruffala, Naw York	Grou	i Depth of	HOIE: Z IEEL	L Delow grad	de (Tog)		
Boring	Locat	tion: South Wes	t of Building B6	Water Encountered: NA						
Date St	art/F	inished: August	9, 2012	Water At End of Drilling: NA						
Drilling	Cont	tractor: Russo D	evelopment. Inc.	Equipment: PowerProbe						
Drilling	Met	hod: Hydraulica	ally driven system (PowerProbe)	Technician: Ryan Welch						
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F				0		D.				
1				w	1		R			
е		Well			n	R	е			
v		Completion	Soil/Rock Description	С	t	е	С			
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t	е			u	r	d	V			
i	р			n	V	i	е			
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n	h			S		g	у	Comments		
					(= .)	Parts Per				
					(Feet)	Villion	(Inches)			
	r		Ground Surface			(PPIM)	1			
	1		No Deservery		0.2			Equipment refusal encountered		
NA		NA	NO RECOVERY	NA	0-2	-	-	at approximately 2 ftbg		
							MC			
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						ENVI				
						4169 ALLEND	DALE PKWY. BUFFAI	LO, NEW YORK 14219		
						¥ (/	(7) 312-8296 (7) www.msanalytica	16) 312-8092 al.com		

DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-32					Page 32 of 50	
Project	Nun	her: 12MS-104	u(5)	Total Depth of Hole: 5 feet below grade (ftbg)					
Project		tion: Kensingto	n. 9 n Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA					
Boring	Loca	tion: South East	t of Building A1	Water Encountered: NA					
Date St	art/F	inished: August	t 10, 2012	Water At End of Drilling: NA					
Drilling	Con	tractor: Russo D	Development, Inc.	Equipment: PowerProbe					
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Ryan Welch					
E I I I I I 0 D D I 0 D D I 0 0 D I 0 0 D I 0 0 0 I 0 0 0 V Completion Soil/Rock Description C I e I 0 0 e a 0 I 0 0 e a 0 I 0 I I I I I 0 I I I I I 0 I I I I I 0 I I I I I 0 I I I I I I I I I I I I I I I I I I I I I I I I									
	1		Ground Surface		(Feet)	Parts Per Million (PPM)	(Inches)		
NA	1	NA	0-0.5 ftbg: Asphalt and subbase 0.5-3 ftbg: brown sandy clayey Fill Material (medium stiff, no plasticity, moist)	NA	0-4	1.4	15		
	5		3-5 ftbg: brown gravelly sandy clayey Fill Material (medium stiff, no plasticity, moist)		4-5	0.8	9	Equipment refusal encountered at approximately 5 ftbg	
								-	
						ENVIR 4169 ALLENC ₽ (7	RONMENTAL CO DALE PKWY. BUFFA 16) 312-8296 A (www.msanalytic	TICAL DISULTANTS LIG. NEW YORK 14219 7(6) 312-8092 al.com	

V

Project Number: 12MS-104(.5) Project Location: Kensington Heights 1827 Fillmore Avenue, Buffalo, New York Boring Location: South West of Building A1 Date Start/Finked: August DJ, 2012 Water At End of Dirilling: NA Deal Start/Finked: August DJ, 2012 Water At End of Dirilling: NA Equipment: PowerProbe Drilling Method: Hydraulically driven system (PowerProbe) Technican: Ryan Welch Drilling Gottractor: Russ Development, Inc. E E V U Completion B D D D D D D D D D D D D D	DRILLI	DRILLING LOG OF WELL/BORING NO. SB-33 Page 33 of 50								
Index Example: Index Explore Index Explore Project Location: Rensington Heights 1827 Fillmore Avenue, Buffalo, New York Ground Elevation: NA Boring Location: South West of Building A1 Water Encountered: NA Date Start/Finished: August 10, 2012 Water At End of Drilling: NA Drilling Contractor: Russo Development, Inc. Equipment: PowerProbe Drilling Contractor: Russo Development Soil/Rock Description C I R 0 Diagram Soil/Rock Description C I R C 1 Q O-0.5 ftbg: Asphalt and subbase I G Ground Surface I/PMIIII NA 2-5 ftbg: brown grave	Project	Nur	her 17MS-10/		Tota	l Denth of	Hole: 6 foo	t helow are	de (fthg)	
Project Codation: New York Code Constraints (Constrained and Code Code Code Code Code Code Code Cod	Project		tion: Kensingto	+(.3) An Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	ion: NA	t below gra		
Date Start/Finished: August 10, 2012 Water At End of Drilling: NA Drilling Contractor: Russo Development, Inc. Equipment: PowerProbe Drilling Contractor: Russo Development, Inc. Equipment: PowerProbe E I I e Well P e Well R e Well R e Well R i D R i p I i Completion Soil/Rock Description i i R i p I i p I i p I i p I i p I i p I i p I i p I i Parts Per Feet (Inches) Ground Surface (PPM) Parts Per Inclusion of the part of the	Boring		tion: South We	st of Building A1	Wat	er Encount	tered: NA			
Drilling Contractor: Russo Development, Inc. Equipment: PowerProbe Drilling Method: Hydraulically driven system (PowerProbe) Technician: Ryan Welch E Well B P e Well Na Na b Completion Soil/Rock Description C t c C t e C i p Diagram Soil/Rock Description C t e i p Diagram Soil/Rock Description C t e c i p Diagram Soil/Rock Description C t e c i p O Diagram Soil/Rock Description C t e c i p Completion Soil/Rock Description C t a n r i p Completion Soil/Rock Description C t e c i p Completion Soil/Rock Description C t a n r s I	Date St	art/F	inished: Augus	t 10. 2012	Wat	er At End o	of Drilling: N	A		
B P P I Well Completion Soil/Rock Description B I D I P I D D R R I P I D D R R R I P I D D R R R R I P I I R	Drilling	Con	tractor: Russo [Development, Inc.	Equi	ipment: Po	werProbe			
E Well P P v Completion Soil/Rock Description D R a D D R e i p i R e o C t e c i p i i R e o e a o i i p i i i o t i i i i i p i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i<	Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Ryan Welch					
0 t a n r r y Comments 1 0	E I v a t	Dep	Well Completion Diagram	Soil/Rock Description	B I W C u n	l n t e r v	P I D R e a d i	R e c v v		
n h s I g y Comments Ground Surface (Feet) Million (Inches) (Inches) (Inches) (Inches) I 0-0.5 ftbg: Asphalt and subbase (PPM) (Inches) (Inches) NA 0.5-2 ftbg: dark brown sandy clayey Fill Material (medium stiff, low plasticity, moist) 0-4 1.4 20 NA 2-5 ftbg: brown gravelly clayey Fill Material (medium stiff, medium plasticity, moist) NA 2-5 Equipment refusal encou at approximately 6 f moist) 5 5-6 ftbg: brown gravelly clayey Fill Material (stiff, low plasticity, moist) 4-6 1.0 15 Equipment refusal encou at approximately 6 f	0	t			t	a	n	r		
Parts Per (Feet) Parts Per Million (Inches) I 0-0.5 ftbg: Asphalt and subbase (PPM) (PPM) NA 0.5-2 ftbg: dark brown sandy clayey Fill Material (medium stiff, low plasticity, moist) 0-4 1.4 20 NA 2-5 ftbg: brown gravelly clayey Fill Material (medium stiff, medium plasticity, moist) NA 0-4 1.4 20 5 5-6 ftbg: brown gravelly clayey Fill Material (stiff, low plasticity, moist) NA 4-6 1.0 15 Equipment refusal encou at approximately 6 ft	n	h			S	I	g	у	Comments	
1 0-0.5 ftbg: Asphalt and subbase 0.5-2 ftbg: dark brown sandy clayey Fill Material (medium stiff, low plasticity, moist) 0-4 1.4 20 NA NA 2-5 ftbg: brown gravelly clayey Fill Material (medium stiff, medium plasticity, moist) NA 4-6 1.0 15 Equipment refusal encount at approximately 6 ftm moist) Image: Clayer Fill Material (stiff, low plasticity, moist) Image: Clayer Fill Material (st				Ground Surface		(Feet)	Parts Per Million (PPM)	(Inches)		
5 5-6 ftbg: brown gravelly clayey Fill Material (stiff, low plasticity, moist) 4-6 1.0 15 Equipment refusal encount at approximately 6 ft	NA	1	NA	0-0.5 ftbg: Asphalt and subbase 0.5-2 ftbg: dark brown sandy clayey Fill Material (medium stiff, low plasticity, moist) 2-5 ftbg: brown gravelly clayey Fill Material (medium stiff,	NA	0-4	1.4	20		
		5		5-6 ftbg: brown gravelly clayey Fill Material (stiff, low plasticity, moist)		4-6	1.0	15	Equipment refusal encountered at approximately 6 ftbg	
ENVIRONMENTAL CONSULTANTS 169 ALLENDALE FEWY. BUFFALO, NEW YOR. (4219 103 312-8296 (h (716) 312-8092 www.msanalytical.com										

DRILLING LOG OF WELL/BORING NO. SB-34 Page 1 of 50									
Drois	NI	abor: 12146 104		Tata	Donth -f		halaw are	de (fthe)	
Project		iber: 12IVIS-104	H(.)	Tota	upd Flovet	nule: 5 feet	below grad		
Boring		tion: South Was	the fluiding A1	Grou W/st	and Elevati	ored NA			
	art/E	inished: August	t 10 2012	Water At End of Drilling: NA					
Drilling	Cont	tractor Russo P	evelopment Inc	Fau	nment [,] Po	werProhe	~		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Rvan Welch					
						D			
				В		P			
F				0		D			
1				w	1	U	R		
e		Well			n	R	e		
v		Completion	Soil/Rock Description	С	t	е	С		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	V	i	е		
0	t			t	а	n	r		
n	h			S		g	у	Comments	
					(= .)	Parts Per			
	Ground Surface					(PPM)	(Inches)		
	1		0.0.5 ftbg: Asphalt and subbase						
NA	1	NA	0.5-4 ftbg: gray gravelly sandy clayey Fill Material (medium stiff, low plasticity, moist)	NA	0-4	2.6	10		
	5		4-5 ftbg: brown/dark brown gravelly sandy clayey Fill Material (medium stiff, low plasticity, moist)		4-5	2.2	12	Equipment refusal encountered at approximately 5 ftbg	
ENVIRONMENTAL CONSULTANTS HIS ALLENDALE PRAY: BUFALO, NEW YORK 14218 BY (16) 312-8076 BI (16) 312-8072 WWW.maaralytical.com									

DRILLII	NG LC	DG OF WELL/B	ORING NO. SB-35					Page 35 of 50			
Proiect	Num	1) 1) 1) 1) 10/10/10/10/10/10/10/10/10/10/10/10/10/1	4(.5)	Total Depth of Hole: 12 feet below grade (fthg)							
Project	Loca	tion: Kensingto	on Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	Ind Elevati	ion: NA					
Boring	Loca	tion: South We	st of Building A1	Water Encountered: NA							
Date St	art/F	inished: Augus	t 10, 2012	Water At End of Drilling: NA							
Drilling	Cont	ractor: Russo [Development, Inc.	Equipment: PowerProbe							
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Technician: Ryan Welch							
				R		P					
		l									
E		l		0		D					
		l		w	I		R				
е		Well			n	R	е				
v		Completion	Soil/Rock Description	С	t	е	С				
а	D	Diagram		0	е	а	0				
t	е	-		u	r	d	v				
i	р	1		n	v	i	е				
0	t	1		t	а	n	r				
n	h	1		s	I	g	у	Comments			
			1			Parts Per		•			
					(Feet)	Million	(Inches)				
			Ground Surface			(PPM)					
	1		0.0 F they terbalt and subbase			K					
1	T	l	U-U.5 TEDg: Asphalt and subbase								
1		l	C. C. C. C. L. Martin Lawrence and the second selection fill Meteoriel (stiff)		0-2	1.8	12				
1		1	0.5-2 ftbg: dark brown gravelly sandy clayey Fill Material (suit,		-		-				
1		1	no plasticity, moist)								
1		l						4			
		l	2-4 ftbg: brown sandy clayey Fill Material (medium stiff, low								
1	_	l	plasticity, moist)		2-4	2.4	12				
1	5	l	pidotion(),								
1		1						1			
		l									
NA		NA	4.9 that brown gravelly candy clavey Fill Material (medium	NA							
1		l	4-8 ftbg: brown gravely safuy clayey rin iviateriar (inculuin		4-8	2.7	12				
		l	stiff, low plasticity, moist)								
		1									
1		1									
1	10	l									
	10	l	8-12 ftbg: brown gravelly sandy clayey Fill Material (stiff, no		8-12	3.2	10				
1		l	plasticity, moist)		-	-		Equipment refusal encountered			
		l						equipment rerusal encountered			
1		l						at approximately 12 mb			
								l			
l											
1											
							MS				
							ANALY	TICAL			
						FNVIR					
						4169 ALLEND	ALE PKWY. BUFFA	Lo, New York 14219			
						· (/)	www.msanalytic	al.com			

DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-36					Page 36 of 50	
Project	Nur	ber: 12MS-104	1(5)	Total Denth of Hole: 9 feet below grade (fthg)					
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Ground Elevation: NA					
Boring	Locat	tion: North We	st of Building A1	Water Encountered: NA					
Date St	art/F	inished: August	t 10, 2012	Water At End of Drilling: NA					
Drilling	Cont	tractor: Russo D	Development, Inc.	Equipment: PowerProbe					
Drilling	Met	hod: Hvdraulic	ally driven system (PowerProbe)	Tech	nician: Rv	an Welch			
0		,		D		n			
				В		P			
F				0		D I			
				w	1	D	R		
e		Well			n	R	e		
v		Completion	Soil/Rock Description	С	t	e	C C		
a	D	Diagram		0	e	a	0		
t	e			u	r	d	v		
i	n			n	v	i	e		
0	р t			t	a	n	r		
n	ĥ			s	I	a	v	Comments	
				3		9 Parts Per	J	connicito	
					(Feet)	Million	(Inches)		
	Ground Surface					(PPM)	(menes)		
						(,			
	1		0-0.5 ftbg: Asphalt and subbase		0.0	17	12		
					0-2	1.7	12		
			0.5-3 ftbg: dark brown/black gravelly sandy clayey Fill Material						
			(stiff, no plasticity, moist) with brick debris						
					2 4	1.0	17		
			3-4 ftbg: brown gravelly sandy clayey Fill Material (stiff, no		2-4	1.0	12		
			plasticity, moist)						
NA		NA		NA					
1.17.1	5		4-7 ftbg: brown sandy clayey Fill Material (medium stiff, low to	110					
	0		medium plasticity, moist)		10	2.1	15		
					4-0	2.1	15		
			7-8 ftbg: brown gravelly sandy clayey Fill Material (medium						
			stiff, no plasticity, moist)						
			0.0 fthat brown conduction with Fill Material (angular modium)					Faultament refugel encountered	
			dance moist		8-9	4.5	6	equipment relusal encountered	
			uense, moist					at approximately 9 itsg	
	•	•		•					
							MD		
					ANALYTICAL				
				ENVIRONMENTAL CONSULTANTS					
					4169 ALLENDA 율 (716	6) 312-8296 1 (71	6) 312-8092		
							www.msanalytica	l.com	

DRILLII	NG LC	DG OF WELL/B	DRING NO. SB-37					Page 37 of 50
Project	Nun	nher: 12MS-10/	<i>1</i> /5)	Tota	al Denth of	Hole: 20 fer	et helow gr	ade (fthø)
Project	Loca	ation: Kensingto	on Heights 1827 Fillmore Avenue, Buffalo, New York	Gro	und Elevat	ion: NA	L DEIOW BIC	ane (IrnR)
Boring	Loca	tion: North of B	suilding A1	Wat	er Encoun	tered: 16 ftb	Jg	
Date St	art/F	inished: August	t 10, 2012	Wat	er At End c	of Drilling: N	A	
Drilling	Cont	aractor: Russo D	Development, Inc.	Equi	ipment: Po	werProbe	<u> </u>	
Drilling	Meu	nod: Hydraulica	ally driven system (PowerProbe)	Tech	inician: ку	an weich		Į
	'			В	1		1	
F	'	1		0			1	
	'			w	I		R	
е	'	Well		'	n	R	е	
V	_'	Completion	Soil/Rock Description	С	t	e	С	
a	D	Diagram		0	е	a	0	
t ;	e			u n	r	d i	v	
0	p t			t t	v a		e r	
n	h			s	د ا	l "I	l y	Comments
	· · · · ·	·	1	ىنا	·	Parts Per		
					(Feet)	Million	(Inches)	
L			Ground Surface			(PPM)	•	
	1	['	0-0.5 ftbg: Asphalt and subbase	「 '		ı 🔪	1	
	'		0.5-2 ftbg: grav gravelly sandy clayey Fill Material (stiff, no	'		Г с і	1	
1	'		plasticity, moist)		0-4		20	
1	'				0-4	1./	20	20
1	'		2-4 ftbg: dark brown gravelly sandy clayey Fill Material				₽	
1	'		(medium stiff, low plasticity, moist)	<u>ا</u>			1	
I						++	<u> </u>	
i i	э	1	4-6 ftbg: dark brown gravelly sandy clayey Fill Material		4-6	1.7	12	
i i	'	1	(medium stiff, low plasticity, moist) with some ash	'		1 1		
i i	'	1				├ ────	t	
	'				6-8	1 1 1	17	12
i i	'	1	6-9 ftbg: dark brown gravelly sandy clayey Fill Material	'	V°0	1.4	12	
i i	'	1	(medium stiff, low plasticity, moist) with ash and prick debris	and brick debris				
I	'			'	0.10	!	17	
i i	10	1	0.10 fthey growthich (project)	'	8-10	2.2	12	
NA	10	NA	9-10 ftbg. gray ASI (Holst)	NA	ļ	ļ!	 	
	'	1		'			1	
l	'		10-12 ftbg: brown sandy Clay (soft, medium plasticity, moist)	'	10-12	2.1	12	elow grade (ftbg)
I	'			'		<u> </u>	L	
l	'	1		'	ſ	Γ I	Ē	1
l	'			'			1	
l	'	1	12-16 ftbg: brown gravelly sandy clayey Fill Material (medium	'	12-16		15	
l	'		stiff, low plasticity, moist)	'	12-10	2.2	15	
l	'			'			1	
1	15			'		ا <u> ا</u>	1	
1	'			'		ı		1
l	'			'			1	
l	'	1	16-20 ftbg: grav Gravel (angular and subrounded, medium	'			1	Equipment refusal encountered
l	'		dense, wet)	'	16-20	1.2	2	at approximately 20 ftbg
1	'			'			1	
1	'	1		'	1		1	
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1				1		ENVIRC	NMENTAL CON	NSULTANTS
l				1		4109 ALLEI (716	.E PKWY. BUT	D, NEW YORK 14219 16) 312-8092
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DRILLI	RILLING LOG OF WELL/BORING NO. SB-38 Page 38 of 50									
Project	Nur			Tota	Denth of		balow gray	do (ftha)		
Project	Loca	tion: Kensingto	(.5) In Heights 1827 Fillmore Avenue, Buffalo, New York	Gro	und Elevati		Delow grac			
Roring	locat	tion: North Fast	t of Ruilding Δ1	Wat	er Encount	tered: NA				
Date St	art/F	inished: Augus	t 10. 2012	Wat	er At End c	of Drilling: N	A			
Drilling	Cont	ractor: Russo D	Development. Inc.	Equi	ipment: Po	werProbe	<u></u>			
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tecł	nician: Rya	an Welch				
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E		ĺ		0		D				
I		1		w	I		R			
е		Well			n	R	е			
V		Completion	Soil/Rock Description	С	t	е	С			
а	D	Diagram		0	е	а	0			
t	е	1		u	r	d	v			
l	р	ĺ		n	V		e			
0	l h	1		I c	a	n	r	Commonte		
11		<u>ا</u>	<u> </u>	5	1	Dorts Dor	у	Comments		
					(Foot)	Million	(Inches)			
			Ground Surface		(1 2 2 1)	(PPM)	(inches)			
	1		0-0.5 ftbg: Asphalt and subbase							
			0.5-2 ftbg: gray/brown gravelly sandy Fill Material (coarse, medium and fine grain, medium dense, moist)		0-2	1.3	12			
NA		NA	2-3 ftbg: brown gravelly Sand Fill (coarse, medium and, fine grain, medium dense, moist) with brick debris	NA						
			3-3.5 ftbg: brown gravelly sandy Fill Material (coarse grain, medium dense, moist) with brick debris		2-4	1.9	12			
			3.5-4 ftbg: brown sandy clayey Fill Material (stiff, no plasticity, moist)					Equipment refusal encountered at approximately 4 ftbg		
						ENVI A169 ALLEN ¥ (IRONMENTAL CO IDALE PKWY. BUFF 716) 312-8296 h www.msanalyt	ONSULTANTS ALO, NEW YORK 14219 (16) 312-8092 ical.com		

DRILLII	NG LO	DG OF WELL/BO	DRING NO. SB-39					Page 39 of 50
Project	Num	her: 12MS-10/	1(5)	Tota	l Denth of	Hole: 10 fee	et helow gr	ade (fthg)
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati		ct below gr	
Boring	Loca	tion: East of Bu	ilding A1	Wat	er Encount	tered: NA		
Date St	art/F	inished: Augus	t 10, 2012	Wat	er At End o	of Drilling: N	A	
Drilling	Cont	tractor: Russo E	Development, Inc.	Eaui	ipment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Rv	an Welch		
5								
				В		P		
г								
				0		D	D	
		Well		vv	n	P	Γ. Δ	
v		Completion	Soil/Bock Description	C	+	R A	c	
v	п	Diagram	Soly Nock Description	0		6	0	
t t	0	Diagram			r	d	V	
i	n			n	v	i	6	
0	P t			t	a	n	r	
n	h			s	1	n n	v	Comments
				3		Parts Per	J	connents
					(Feet)	Million	(Inches)	
			Ground Surface		(i cct)		(inclics)	
	r			r			1	
	1		0-0.5 ftbg: Asphalt and subbase					
					0.4	5.1	10	
			0.5-4 ftbg: dark brown sandy Fill Material (coarse, medium and		0-4	5.1	10	
			fine grain, medium dense, moist)					
							T	
								4
	5		4-6 ftbg: dark brown/black sandy Fill Material (coarse, medium					
NA		NA	and fine grain, medium dense, moist	NA	4-6	1.5	12	
								1
			6-8 ftbg: dark brown/black gravelly sandy Fill Material (coarse,		6-8	16.2	12	
			medium and fine grain, medium dense, moist)			1012		
								Equipment refusal encountered
			8-10 ftbg: dark brown/black gravelly sandy Fill Material					at approximately 10 ftbg
			(coarse, medium and fine grain, medium dense, moist) with		8-10	2.9	6	at approximately to itbg
	10		rock fragments					
							MS	
							ANALY	TICAL
						ENVIE	RONMENTAL CO	ONSULTANTS
						4169 ALLEND 8 (7	ALE PKWY. BUFFA	ALO, NEW YORK 14219 716) 312-8092
						- (*	www.msanalytic	cal.com

DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-40					Page 40 of 50		
Project	Num	abor: 12MS 104		Tota	Donth of	Holo: 2 foot	t holow grad	to (ftbg)		
Project		tion: Kensingto	() n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	ind Elevati		L Delow grad			
Boring		tion: South Fast	of Building A1	Wat	er Encount	ered: NA				
Date St	art/F	inished: August	t 10, 2012	Wat	er At Fnd c	of Drilling: N	A			
Drilling	Cont	tractor: Russo F	Development Inc.	Faui	nment: Po	werProbe				
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Rv	an Welch				
011116	linet			1001						
E I v a t i o n	D e t h	Well Completion Diagram	Soil/Rock Description	I O W C O U n t S	I n t e r v a I	r I D e a d i i n g Parts Per	R e c v e r y	Comments		
	Ground Surface				(Feet)	Million (PPM)	(Inches)			
NA	1	NA	0-0.5 ftbg: Asphalt and subbase 0.5-3 ftbg: gray/black gravelly sandy Clay (stiff, no plasticity, moist)	NA	0-3	3.6	15	Equipment refusal encountered at approximately 3 ftbg		
	EVENENCIAL EVENENCIAL DE VIENTALO, NOV TORI LA 12 12 ALTRODALE PRAVY, BURFALO, NOV TORI LA 12 13 ALTRODALE PRAVY, BURFALO, NOV TORI LA 12 13 ALTRODALE PRAVY, BURFALO, NOV TORI LA 12 14 ALTRODALE P									

DRILLII	NG LC	DG OF WELL/BC	DRING NO. SB-41					Page 41 of 50
Project	Nun	nher: 12MS-10/	n/ 5)	Tota	Depth of	Hole: 11 fe	et helow gr;	ada (fthø)
Project		tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Flevat	ion: NA	51 0010 10 8.0	
Boring	Loca	tion: North of B	suilding B6	Wat	er Encoun	tered: NA		
Date St	art/F	inished: Augus	t 10. 2012	Wat	er At End (of Drilling: N	IA	
Drilling	Con	tractor: Russo [Development, Inc.	Equi	pment: Pc	owerProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Ry	an Welch		
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	'				1			
E	'			0	1	D		
	'			w	I I	-	R	
е	'	Well		'	n	R	е	
v	'	Completion	Soil/Rock Description	С	t	е	с	
а	D	Diagram		0	е	а	0	
t	е			u	r	d	v	
i	р			n	v	i	е	
0	t			t	а	n	r	
n	h			s		g	у	Comments
						Parts Per		
					(Feet)	Million	(Inches)	
	Ground Surface					(PPM)		
	1		0-0.5 ftbg: Asphalt and subbase		0-2	1.5	15	
			0.5-6 ftbg: black sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with some brick debris		2-4	2.0	15	
NA	5	NA		NA	4-6	1.7	12	
			6-8 ftbg: black sandy Fill Material (coarse, medium and fine grain, medium dense, moist) with brick debris		6-8	2.9	12	
	10		 8-9.5 ftbg: black sandy Fill Material (coarse, medium and fine grain, medium dense, moist) 9.5-11 ftbg: black sandy clayey Fill Material (medium stiff, no 		8-11	1.8	18	Slight organic odor observed between approximately 9.5-11 ftbg Equipment refusal encountered
			plasticity, moist) with ash		<u> </u>			at approximately 11 itog
				[MS	
						ENVIR 4169 ALLEND 율 (71	ONMENTAL CO ALE PKWY. BUFFA 16) 312-8296 (h) (i www.msanalytic	TICAL NISULTANTS INSULTANTS

DRILLII	DRILLING LOG OF WELL/BORING NO. SB-42 Page 42 of 50								
Project	Num	her: 12MS-104	1(5)	Tota	l Denth of	Hole: 16 fee	t helow gra	ade (fthø)	
Project	Loca	ation: Kensingto	on Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	ion: NA	t below gr		
Boring	Loca	tion: North Eas	t of Building B6	Wat	er Encount	tered: NA			
Date St	:art/F	inished: Augus	t 10, 2012	Wat	er At End o	of Drilling: N	A		
Drilling	Con	tractor: Russo [Development, Inc.	Equi	ipment: Po	werProbe			
Drilling	iviet	noa: Hyaraulic	ally driven system (PowerProbe)	Tecr	nician: Ky	an weich	-		
				B		Р			
Е				0		D			
I.				W	I		R		
е		Well			n	R	е		
V		Completion	Soil/Rock Description	С	t	e	С		
a t	D	Diagraffi		0	e r	d d	0 V		
i	p			n	v	i	e		
0	t			t	а	n	r		
n	h			S	I	g	у	Comments	
					(= .)	Parts Per	<i>(</i>) 1)		
			Ground Surface		(Feet)	(DDM)	(Inches)		
	1					(PPIVI)			
	1		0-0.5 ftbg: Asphalt and subbase		0-2	5.8	12		
			0.5-2.5 fthg: dark brown/black sandy Fill Material (coarse			5.0	12		
			medium and fine grain, medium dense, moist)						
			2 5-3 ftbg: brown clavey Fill Material (medium stiff, low						
			plasticity, moist)		2-4	6.1	12		
			p		K				
	-		3-6 ftbg: dark brown/black sandy Fill Material (coarse, medium						
	5		and fine grain, medium dense, moist)		4-6	2.1	12		
			6-6.5 ftbg: brown Clay (still, no plasticity, moist)						
			6.5-8 ftbg: dark brown/black sandy Fill Material (coarse,		6-8	6.1	12		
NA		NA	medium and fine grain, medium dense, moist) with brick	NA					
			debris						
					8-10	3.9	12	R e c o v y e r y Comments (Inches) 12 12 12 12 12 12 12 12 12 12 12 12 12	
			9 12 fthey tan condy Fill Material (coarce, medium and fine						
	10		grain medium dense moist) with brick debris						
			grain, medium dense, moist, with brick debris		10-12	3.2	12		
			13-14 ftbg: brown gravelly sandy Fill Material (coarse, medium		12-14	4.2	12		
			and fine grain, medium dense, moist) with some ash and brick		12 14	7.2			
			debris						
	15		14-15 5 fthg: gray/brown Ash (moist)						
	15				14-16	2.5	12	Equipment refusal encountered	
			15.5-16 ftbg: brown Clay (stiff, no plasticity, moist)					at approximately to mug	
		•							
				I			MS		
							ANALY	TICAL	
				I		4169 ALLENDA	DINMENTAL CO	DNSULTANTS ILO, New York 14219	
						會 (71	6) 312-8296 🗎 (7 www.msanalytic	716) 312-8092 :al.com	
				1					

DRILLI	IG LC	OG OF WELL/BC	DRING NO. SB-43					Page 43 of 50
Project	Num	ber: 12MS-104	(.5)	Tota	l Depth of	Hole: 22 fee	t below gra	ade (ftbg)
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	on: NA		
Boring	Locat	tion: East of Bui	ilding A1	Wat	er Encount	ered: 16 ftb	g	
Date St	art/F	inished: August	t 13, 2012	Wat	er At End o	of Drilling: N	4	
Drilling	Cont	tractor: Russo D	evelopment, Inc.	Equi	pment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nnician: Jos	eph Mecca		
				В		Р		
-				1				
E				0		D		
		Wall		W	1	P	R	
e		Completion	Soil/Pock Description	C	n +	ĸ	e	
v 2	р	Diagram	Soly Nock Description	0	۱ ۵	e	0	
t	e	Diagram		U U	r	d	v	
i	a			n	v	l	e	
0	t			t	а	n	r	
n	h			S	I	g	у	Comments
			Ground Surface		(Feet)	Parts Per Million	(Inches)	
				1				
	1		0-0.5 ftbg: Asphalt and subbase		0-2	2.4	15	
					2-4	6.8	15	
	5		0.5-10 ftbg: black/tan Sand (coarse, medium and fine grain, medium dense, moist) with some gravel		4-6	2.4	20	
					6-8	37.6	20	
					8-10	2.6	15	
NA	10	NA	10-12 ftbg: gray/black sandy clayey gravelly Fill Material (angular and subrounded, medium dense, moist)	NA	10-12	1.5	15	
			12-16 fthr: gray clayey Ach (medium stiff moist)		12-14	1.5	15	
	15				14-16	1.7	15	
			16-20 ftbg: gray clayey Ash (medium stiff, wet)		16-20	1.6	10	
	20		20-21.5 ftbg: gray clayey silty Ash (medium stiff, wet)		20-22	2.1	10	Equipment refusal encountered
			21.5-22 ftbg: brown Clay (medium stiff, medium plasticity, moist)					at approximately 22 ftbg
				1				
						ENVIR 4169 ALLENDA Ê (71-	DIMENTAL CC LILE PKWY. BUFFA 6) 312-8296 B (1) www.msanalytic	TICAL DNSULTANTS LLO, NEW YORK 14219 716) 312.8092 alacom

DRILLING LOG OF WELL/BORING NO. SB-44 Page 44 of 50								
Project	Num	bor: 12MS-104	(5)	Total Depth of Hole: 23 feet below grade (fthg)				
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	ind Elevati	on: NA	et below gr	
Boring	Locat	tion: North of B	uilding A1	Wat	er Encount	ered: 16 ftb	g	
Date St	art/F	inished: Augus	t 13,2012	Wat	er At End c	of Drilling: N	A	
Drilling	Cont	tractor: Russo E	Development, Inc.	Equi	pment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: Jos	eph Mecca		
				В		Р		
-								
E				0	1	D	D	
e		Well		vv	n	R	e	
v		Completion	Soil/Rock Description	С	t	е	С	
а	D	Diagram		0	е	а	0	
t i	e			u	r	d	V	
0	р t			t	a	n	r	
n	h			S	1	g	у	Comments
						Parts Per		
			Carry of Conferen		(Feet)	Million	(Inches)	
						(PPIM)		
	1		0-0.5 ftbg: Asphalt and subbase					
					0-4	1.3	15	
			0.5-7 ftbg: black/brown sandy gravelly clavey Fill Material					
	F		(stiff, low plasticity, moist)				•	
	5							
					4-8	2.0	15	
			7-8 ftbg: black/brown sandy gravelly clayey Fill Material (stiff,					
			low plasticity, moist) with ash					
	10							
			8-12 ftbg: brown sandy gravelly Clay (medium stiff, low					
			nlasticity moist) with some ash		8-12	1.0	15	
			plasticity, moise, with some dan					
NA		NA		NA				
			12-16 ftbg: brown gravelly Clay (medium stiff, low plasticity					
			moist		12-16	1.0	6	
			16-20 ftbg: brown silty sandy Gravel (angular and subrounded,		46.20	0.7	6	
			medium dense, wet)		16-20	0.7	6	
	20							
			20-23 ftbg: gray silty Gravel (angular and subrounded, loose,					Equipment refusal encountered
			wet)		20-23	0.7	6	at approximately 23 ftbg
								_
							MS	
							ANALY	TICAL
						FNVIP		DNSULTANTS
						4169 ALLEND/ 율 (71	6) 312-8296 1 (alo, New York 14219 716) 312-8092
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DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-45					Page 45 of 50
Project	Nur	hor. 12MS-101	((5)	Total Depth of Hole: 20 feet below grade (fthg)				
Project	Loca	tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	ind Elevati	ion NA	et below gra	
Boring	Locat	tion: South East	of Building B2	Wat	er Encount	tered: NA		
Date St	art/F	inished: August	t 13, 2012	Wat	er At End o	of Drilling: N	A	
Drilling	Cont	ractor: Russo D	Development, Inc.	Equi	pment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nnician: Jos	seph Mecca		
				В		Р		
				1		I.		
E				0		D		
		Wall		W		D	R	
e		Completion	Soil/Bock Description	C	11 +	R	e	
a	D	Diagram		0	e	a	0	
t	e			u	r	d	v	
i	р			n	v	i	е	
0	t			t	а	n	r	
n	h			S		g	у	Comments
					(5 +)	Parts Per	(1	
			Crowned Sturfood		(Feet)	Villion (DDMA)	(Inches)	
	1					(PPINI)		
	1		0-0.5 ftbg: Asphalt and subbase					
			0.5-4 fthg: black/brown/tan.clayey.Sand (coarse, medium and		0-4	1.3	15	
			fine grain medium dense moist)					
			4-6 ftbg: black/tan Sand (coarse, medium and fine grain,					
	_		medium dense, moist)					
	5				4-8	4.6	15	
						4.0	15	
NΛ		NA	6-10 ftbg: brown gravelly clayey Sand (coarse and medium	ΝΛ				
114		114	grain, dense, moist)	in A				
					8-10	1.6	15	
	10							
			10-12 ftbg: gray/black Ash (soft, moist)		10-12	1.2	15	
					-		-	
								-
			12-20 ftbg: no recovery, boring terminated		12-20	-	-	Deving terminated due to
	15							obstruction in boring at
								approximately 20 ftbg
	I							approximately 20 mbg
							ANAL	TICAL
						4169 ALLEND	ALE PKWY. BUFF	ONSULTANTS ALO, NEW YORK 14219
						晉 (7	16) 312-8296 🗎 www.msanalyt	(716) 312-8092 ical.com

Page 46 of 50 Page 26 of 50									
Ducient	Nivers	han 12046 104		Table Death of Units - 24 foot haloss and a (64 a)					
Project	Num	tion: Kensingto		Grou	ii Depth of ind Elevati	Hole: 21 tee	t below gra	de (ftbg)	
Boring I	Locat	ion: South East	of Building B2	Wat	er Encount	ered: NA			
Date St	art/Fi	inished: August	13, 2012	Wat	er At End o	of Drilling: N/	۹.		
Drilling	Cont	ractor: Russo D	evelopment, Inc.	Equi	pment: Po	werProbe			
Drilling	Meth	nod: Hydraulica	illy driven system (PowerProbe)	Tech	nnician: Jos	eph Mecca			
				В		Р			
_				1					
E				0		D	D		
e		Well		vv	n	R	R e		
v		Completion	Soil/Rock Description	С	t	e	c		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
1	p t			n t	V	l n	e		
n	h			S		a	v	Comments	
						Parts Per	, j		
	Ground Surface					Million (PPM)	(Inches)		
	1		0-0.5 ftbg: Asphalt and subbase						
					0-4	16	15		
						1.0	13		
			0.5-6 ftbg: black/tan Sand (course, medium and fine grain,						
			medium dense, moist)				·		
	5								
					4-6	1.1	15		
			6-9 ftbg: black sandy clayey Gravel (angular, medium dense,	\sim	6-8	2.4	15		
			moist)		-				
					9 10	1.0	15		
	10				8-10	1.0	15		
		NA	ΝΑ						
NA				NA	10-12	1.0	15		
				1.07					
			0.20 fthat grow clayou Ach (coff, moist) with growol		12-16	1.4	20		
			5-20 mbg. gray clayey Asin Solt, moist, with graver						
	15								
					16.20	1.6	15		
					10-20	1.0	15		
	20		20-21 ftbg: black clayey Gravel (angular medium dense moist)					Equipment refusal encountered	
			with wood debris		20-21	1.5	12	at approximately 21 ftbg	
								, 3	
								-	
							MC		
							ANALY	TICAL	
						ENVIR 4169 Allenda	ONMENTAL CO ALE PKWY. BUFFA	DNSULTANTS ILO, NEW YORK 14219	
						曾 (71	6) 312-8296 🗎 (7 www.msanalytic	716) 312-8092 :al.com	

DRILLII	NG LO	DG OF WELL/BO	DRING NO. SB-47					Page 47 of 50
Project	Num	her: 12MS-104		Tota	l Depth of	Hole: 10 fee	et helow gr	ade (ftbg)
Project		tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	ind Elevati	$n \cdot N\Delta$	et below gro	
Boring	Loca	tion: South of B	uilding A3	Wat	er Encount	ered: NA		
Date St	art/F	inished: August	12, 2012	Wat	er At Fnd o	of Drilling: N	Δ	
Drilling	Cont	tractor: Russo D	evelopment Inc.	Faui	nment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nician: los	eph Mecca		
Drining	inice	liou. Hyaraane		1001				
				В		Р		
-						I		
E				0		D	р	
		Well		w	l n	D	ĸ	
e		Completion	Soil/Back Description	C	+	ĸ	e	
V	D	Diagram	Soly Nock Description	C	l	e	C	
d +	D o	Diagrafii		0	e	d	0	
ι ;	e			u		u i	V	
	р +			n +	V	1	e	
0 n	l b			l c	d I	11 G	I V	Commonts
- 11				3	I	y Darts Dor	у	comments
					(Feet)	Parts Per	(Inches)	
			Consumed Countries		(Feel)	(DDL 4)	(inches)	
	1	1	Ground Surface	1		(PPINI)	1	
	1		0-0.5 ftbg: Asphalt and subbase					
					0-2	1.6	15	
					2.4	2.1	15	
					2-4	2.1	15	
	5							
NA	5	NA	0.5-9.5 ftbg: black/tan Sand (coarse, medium and fine grain,	NA	4-6	2.0	15	
			medium dense, moist)			2.0	10	
								-
					6-8	2.8	15	
					·			
								-
					0.10	2.2	20	Equipment refusal encountered
	10		9 5-10 fthg; gray Ash (stiff moist)		0-10	2.5	20	at approximately 10 ftbg
	10		3.5-10 rubg. gray Ash (still, most)					
				r –				
							ANAL	TICAL
						ENVI		
						4107 ALLEN 율 (716) 312-8296 h	(716) 312-8092
							www.msanaly	tical.com

DRILLI	NG LO	DG OF WELL/BO	DRING NO. SB-48					Page 48 of 50	
Project	Nur	ber: 12MS-104		Tota	l Denth of	Hole: 7 foot	below grad	de (ftbg)	
Project		tion: Kensingto	n Heights 1827 Fillmore Avenue, Buffalo, New York	Grou	und Elevati	ion NA	. Delow grad		
Boring	Locat	tion: South Wes	st of Building B4	Wat	er Encoun	tered: NA			
Date St	tart/F	inished: August	t 13. 2012	Wat	er At End o	of Drilling: N	A		
Drilling	Cont	tractor: Russo D	Development, Inc.	Eau	ipment: Po	werProbe			
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tech	nnician: Jos	seph Mecca			
		,		D		D			
						P I			
F				0		, D			
				w	1	b	R		
e		Well			n	R	e		
v		Completion	Soil/Rock Description	С	t	е	С		
а	D	Diagram		0	е	а	0		
t	е			u	r	d	V		
i	р			n	v	i	е		
0	t			t	а	n	r		
n	h			S		g	у	Comments	
						Parts Per			
			Ground Surface		(Feet)	Million (PPM)	(Inches)		
	1		0.0.5 ftbg: Acabalt and subbase			K			
NA	-	NA	0.5-4 ftbg: black/tan gravelly Sand (coarse, medium and fine grain, medium dense, moist)	NA	0-4	8.8	15		
	5		4-7 ftbg: black/tan gravelly Sand (coarse, medium and fine grain, medium dense, moist) with brick in end of macrocore		4-7	4.1	15	Equipment refusal encountered at approximately 7 ftbg	
							•		
						ENVIRO 4169 ALLENDAL © (7)6	MENTAL COP # PKWY. BUFFAL) 312-8296 B) (7)1 Www.msanalytical	FICAL SULTANTS D, NEW YORK 14219 6) 312-8092 Loom	

DRILLI	IG LO	DG OF WELL/B	ORING NO. SB-49					Page 49 of 50
Project	Nur	abor: 12MS 10/		Tota	al Denth of	Hole: 3 E fo	et below or	ade (fthg)
Project Number: 12MS-104(.5) Project Location: Kensington Heights 1827 Eillmore Avenue, Buffalo, New York			Grou	und Elevati	ion: NA	et below gi	ade (itbg)	
Boring Location: South West of Building BA			st of Building B4	Wat	er Encoun	tered: NA		
Date St	art/F	inished: Augus	t 13. 2012	Wat	er At End o	of Drilling: N	IA	
Drilling	Cont	tractor: Russo I	Development, Inc.	Equi	ipment: Po	werProbe		
Drilling	Met	hod: Hydraulic	ally driven system (PowerProbe)	Tecł	nnician: Jos	seph Mecca		
				R		P		
				Ĩ		i i		
Е				0		D		
1				w	I	_	R	
е		Well			n	R	е	
v		Completion	Soil/Rock Description	С	t	е	С	
а	D	Diagram		0	е	а	0	
t	е			u	r	d	V	
i	р			n	V	i	e	
0	t			t	а	n	r	
n	h			S		g	у	Comments
					(- .)	Parts Per		
					(Feet)	Villion	(Inches)	
		1	Ground Surface	-		(PPIM)	1	1
NA	1	NA	0-0.5 ftbg: Asphalt and subbase	NIA	0.2.5	17	20	
NA.			0.5-3.5 ftbg: brown/tan gravelly Sand (coarse, medium and fine grain, medium dense, moist)		0-3.5	7.2	20	Equipment refusal encountered at approximately 3.5 ftbg
						9 4169 ALL 1	WIRONMENTAL COR LINGUAGE POVY. BUTAS 10(1))12.3255 Bit (1) WWW misanalytica	SULTANTS 6. NEW YORK 14219 6) 312-8092 Com





PROJECT INFORMATION	WELL INFORMATION
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I,D,:
BCP Site No. C915279	MUJ-1
Client: Rupp Pfalzgraf LLC	Stick-up (feet):
Project Job Number: 4383.0005P000	Screen Interval (fbgs):
Date: 7 17 24 7/17/2024	Drilling Company: Facth Di Cocosions
Weather: 69. Cloudy, Slight breeze	Drill Rig Type: Diedrich DSO
Prepared by: Michael Lohiser	Drilling Company Personnel:
	YES NO
Well visibile? (If not, provide directions below)	X
Well I.D. visible?	X
Well location matches site map? (If not, sketch actual location on bac	ck)
	A WALL
Well I.D. as it appears on protective casing or well:	MUST
Surface seal present?	×
Surface seal competenet? (If cracked, heaved, etc., describe below)	×
Protective casing in good condition? (If damaged, describe below)	
Headspace reading (ppm) and instrument used:	
Type of protective casing and height of stickup in feet (if applicable):	RUCA
Protective casing material type:	ALA
Measure protective casing inside diameter (inches):	IS (M)
lock present?	
Lock functional?	
Did you replace the lock?	
Is there evidence that the well is double cased? (If yes, describe belo	w)
Well measuring point visible?	X
Measure donth to water from measuring point (feet):	06 51
Measure well denth from measuring point (feet):	To at
Measure well diameter (inches):	19 pt st
Well casing material	Sur
Physical condition of visible well casing:	Growth
Attach I.D. marker (if well I.D. is confirmed) and identify marker type:	1210
Proximity to underground or overhead utilities:	NIP
	10117
Describe access to well: (Include accessibility to truck mounted rig, n	atural obstructions, overhead utilities,
proximity to permenant structures, etc.); Add sketch of location on ba	ck, if necessary.
Kod Box	
Describe well setting (for example, located in a field, in a playground, and assess the type of rectoration required	on pavement, in a garden, etc.)
Drive way	
Identify any nearby potential sources of contamination, if present (e.g	., gas station, salt pile, etc.)
NIA	
Remarks:	



DECOMMISSIONING PROCEDURES (per NYSDEC DER-10) - continued
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:
BCP Site No. C915279	
	MW -1
Decommissioning Data	Wall Schemetic*
(Fill in all that apply)	Wen Schematic
Overdrilling	Depth grouted have the
Interval Drilled	(feet) and case why Runner
Drilling Method(s)	the cosing cons render
Borehole Diameter (in)	
Temp, Casing Installed? (Y/N)	
Depth temp casing installed	
Casing type/diam (in)	
Method of Installation	
Casing Pulling	
Method employed Only A A A A A	
Casing retrieved (feet)	
Casing type/diam (in)	
Cooling Derforating	
Casing Periorating	
Equipment used	
Number of perforations/root	
Size of perforations	
Interval periorated	
Crowting	
Interval grouted (togs)	·
No. of batches prepared	
For each batch record:	
Quantity of water used (gal.)	
Quantity of cement used (lbs.)	_
Cement type Vort Land	_
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grount used (gal.)	
Comments	
	* Sketch in all relevant decommissioning data, including: interval
	overdrilled, interval grouted, casing left in hole, well stickup, etc.
111	
	6



PROJECT INFORMATION	WELL INFORMATION
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:
BCP Site No. C915279	NON-2
Client: Rupp Pfalzgraf LLC	Stick-up (feet):
Project Job Number: 4383.0005P000	Screen Interval (fbgs):
Date: 717/2024	Drilling Company: For the Diamona
Weather: Ger Clarky Shichk Provere	Drill Rig Type:
Prepared by: Michael Labore	Drilling Company Personnel:
DECOMMISSIONING PROCEDURE	S (per NYSDEC DER-10)
Well visibile? (If not, provide directions below) Well I.D. visible? Well location matches site map? (If not, sketch actual location on bac	x NO x X x X
Well I.D. as it appears on protective casing or well:	MW-2
Surface seal present?	
Surface seal competenet? (If cracked, heaved, etc., describe below) Protective casing in good condition? (If damaged, describe below)	
Headspace reading (ppm) and instrument used: Type of protective casing and height of stickup in feet (if applicable): Protective casing material type: Measure protective casing inside diameter (inches):	Pootop 3: Oppon
Lock present?	X
Lock functional?	X
Did you replace the lock?	X
Is there evidence that the well is double cased? (If yes, describe belo	w) 🗶
Well measuring point visible?	X
Measure depth to water from measuring point (feet):	
Measure well depth from measuring point (feet):	
Measure well diameter (inches): 27	
Well casing material:	
Physical condition of visible well casing:	
Attach I.D. marker (if well I.D. is confirmed) and identify marker type:	() ()
Proximity to underground or overhead utilities:	NIA
Describe access to well: (Include accessibility to truck mounted rig, normality to permenant structures, etc.); Add sketch of location on ba	atural obstructions, overhead utilities, ck, if necessary.
Describe well setting (for example, located in a field, in a playground,	on pavement, in a garden, etc.)
and assess the type of restoration required.	
2-00	
Identify any nearby potential sources of contamination if present (e.g.	gas station, salt pile, etc.)
NIII	
Remarks:	*
	11
	/



DECOMMISSIONING PROCEDURES	(per NYSDEC DER-10) - continued
ROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:
BCP Site No. C915279	MW-2
Decommissioning Data (Fill in all that apply)	Well Schematic*
Overdrillling Interval Drilled Drilling Method(s) Borehole Diameter (in.) Temp. Casing Installed? (Y/N) Depth temp. casing installed Casing type/diam (in.) Method of Installation	Depth grouted box Hok (feet) after casing was Parrow
Casing Pulling Method employed Ruled with Chan Casing retrieved (feet) 21-1 RVC Casing type/diam. (in.) 21-1 RVC Casing Perforating Equipment used NUA Number of perforations/foot Size of perforations Interval perforated	
Grouting Interval grouted (fbgs) No. of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Quantity of grout prepared (gal.) Volume of grount used (gal.)	
Comments	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.



PROJECT INFORMATION	WELL INFORMATION	
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.	
BCP Site No. C915279	MW-3	
Client: Rupp Pfalzgraf LLC	Stick-up (feet):	
Project Job Number: 4383.0005P000	Screen Interval (fbgs): Kong Screen Screen Screen Interval (fbgs): Kong Screen	
Date: 7/17/2024	Drilling Company: Forth Duncosians	
Weather: 69 Clarky, Slicht Breeze	Drill Rig Type: Diechrich 150	
Prepared by: Malact Loldiser	Drilling Company Personnel:	
DECOMMISSIONING PROCEDURES	S (per NYSDEC DER-10)	
Wall visibile? (If not provide directions below)	YES NO	
Well Visibile? (If hot, provide directions below)		
Well I.D. Visible?		
vveil location matches site map? (If not, sketch actual location on bac		
Well I.D. as it appears on protective casing or well:	MUS-3	
Surface seal present?	X	
Surface seal competenet? (If cracked, heaved, etc., describe below)	×	
Protective casing in good condition? (If damaged, describe below)	X	
Headspace reading (ppm) and instrument used: 💦 🔿 🛜 👧		
Type of protective casing and height of stickup in feet (if applicable):	Protos 2.5'	
Protective casing material type:	and and	
Measure protective casing inside diameter (inches):		
Lock present?		
Lock functional?	×	
Did you replace the lock?		
Is there evidence that the well is double cased? (If yes, describe belo		
Well measuring point visible?		
	A	
Measure depth to water from measuring point (feet):		
Measure well depth from measuring point (feet):)	
Measure well diameter (inches):		
Well casing material:		
Physical condition of visible well casing:	· ^-	
Attach I.D. marker (if well I.D. is confirmed) and identify marker type:		
Proximity to underground or overhead utilities:	NIA	
Describe access to well: (Include accessibility to truck mounted rig, na	atural obstructions, overhead utilities,	
proximity to permenant structures, etc.); Add sketch of location on bar	ck, if necessary.	
open field		
<i>v</i>		
Describe well setting (for example, located in a field, in a playground,	on pavement, in a garden, etc.)	
and assess the type of restoration required.		
Field		
Identify any nearby notential sources of contamination if present (a d	ras station salt nile etc.)	
100 NOT POLICINAL SOLICOS OF CONTAININATION, IL PRESENT (6.9	a gao diation, dait pilo, 6to./	
Remarks:		



DECOMMISSIONING PROCEDURES	(per NYSDEC DER-10) - continued
ROJECT/SITE NAME: 1827 Fillmore Avenue BCP Site No. C915279	WELLID: MUS-3
Decommissioning Data (Fill in all that apply)	Well Schematic*
Overdrilling NIA Interval Drilled Interval Drilled Drilling Method(s) Borehole Diameter (in.) Borehole Diameter (in.) Temp. Casing Installed? (Y/N) Depth temp. casing installed Casing type/diam (in.) Method of Installation Method employed Casing Pulling Method employed Casing retrieved (feet) Association	Depth grouted bore hole (feet) other cosing was Ren
Casing type/diam. (in.)	
	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.



PROJECT INFORMATION	WELL INFORMATION	
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:	
BCP Site No. C915279	MW-4	
Client: Rupp Pfalzgraf LLC	Stick-up (feet):	
Project Job Number: 4383.0005P000	Screen Interval (fbgs):	
Date: 7/17/2024	Drilling Company: Each Dimension	
Weather: 69 Closely Slight Dreze	Drill Rig Type: Dicols ich DSO	
Prepared by: Michael Lohiver	Drilling Company Personnel: 1016	
DECOMMISSIONING PROCEDURES	S (per NYSDEC DER-10)	
	YES NO	
Well Visibile? (If not, provide directions below)	X	
Well I.D. VISIDIE?	×	
Well location matches site map? (If not, sketch actual location on bac	CK)	
Well I.D. as it appears on protective casing or well:	MW-4	
Surface seal present?		
Surface seal competenet? (If cracked, heaved, etc., describe below)		
Protective casing in good condition? (If damaged, describe below)		
Headspace reading (ppm) and instrument used:	Ofbir	
Type of protective casing and height of stickup in feet (if applicable):	25	
Protective casing material type:	Steel	
Measure protective casing inside diameter (inches):	1	
Lock present?		
Lock functional?		
Did you replace the lock?		
Is there evidence that the well is double cased? (If yes, describe belo	w)	
Well measuring point visible?	×	
NA THE CONTRACT OF A STREET		
Measure depth to water from measuring point (feet):		
Measure well diameter (inches):		
Well engine meterial		
Physical condition of visible well cooling		
Attach I D. marker (if well I D. is confirmed) and identify marker type:	-210	
Attach I.D. marker (if well I.D. is commed) and identify marker type.	NIN	
r toxinity to underground of overhead dinities.		
Describe access to well: (Include accessibility to truck mounted rig, na	atural obstructions, overhead utilities,	
proximity to permenant structures, etc.); Add sketch of location on ba	ck, if necessary.	
open field		
Describe well setting (for example, located in a field, in a playaround	on navement in a garden etc.)	
and assess the type of restoration required.	on parement, in a garden, etc./	
field		
Identify any nearby potential sources of contamination, if present (e.g	., gas station, salt pile, etc.)	
NIM		
Remarks:		
Contanto.		



DECOMMISSIONING PROCEDURES	(per NYSDEC DER-10) - continued
OJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:
BCP Site No. C915279	NUN-4
Decommissioning Data	1 1952 1
(Fill in all that apply)	Well Schematic*
Overdrillling	Depth graved box hoc
Interval Drilled	(feet) all casing lates Reine
Drilling Method(s)	alt and ap in
Borehole Diameter (in.)	
Temp. Casing Installed? (Y/N)	
Depth temp, casing installed	
Casing type/diam (in.)	
Method of Installation	
Casing Pulling	
Method employed Quild and with Chara	
Casing retrieved (feet) 15 L	
Casing type/diam. (in.)	
Casing Perforating	
Equipment used	
Number of perforaitons/foot	
Size of perforations	
Interval perforated	
Interval grouted (fbgs) No. of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Volume of grout prepared (gal.) Volume of grount used (gal.) Comments	Sketch in all relevant decommissioning data, including: interval



1

PROJECT INFORMATION	WELL INFORMATION	
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:	
BCP Site No. C915279	MW-SR	
Client: Rupp Pfalzgraf LLC	Stick-up (feet):	
Project Job Number: 4383.0005P000	Screen Interval (fbgs):	
Date: 71 7124 //1/2024	Drilling Company: Fasth Dimension	
Weather: 67, Cloudy, Stight Breeze	Drill Rig Type: Diedrich D-120	
Prepared by Michael Johiker	Dhing Company Personner. DUT	
DECOMMISSIONING PROCEDURES	S (per NYSDEC DER-10)	
	YES NO	
Well visibile? (If not, provide directions below)	×	
Well I.D. visible?	<u>×</u>	
Well location matches site map? (If not, sketch actual location on bac	(k)	
Well I.D. as it appears on protective casing or well:	MUS-5R	
Surface seal present?	×	
Surface seal competenet? (If cracked, heaved, etc., describe below)	28	
Protective casing in good condition? (If damaged, describe below)	× –	
Headspace reading (ppm) and instrument used:	ODDW	
Type of protective casing and height of stickup in feet (if applicable):	Protop 3	
Protective casing material type: 42 Steel	IN DECEMBER 200	
Measure protective casing inside diameter (inches):		
Lock present?	X	
Lock functional?		
Did you replace the lock?		
Is there evidence that the well is double cased? (If yes, describe below)		
Well measuring point visible?	X	
Measure denth to water from measuring point (feet): 5.5		
Measure well depth from measuring point (feet):		
Measure well diameter (inches):		
Well casing material:		
Physical condition of visible well casing:		
Attach I.D. marker (if well I.D. is confirmed) and identify marker type:		
Proximity to underground or overhead utilities:		
Describe access to well: (Include accessibility to truck mounted rig. n	atural obstructions, overhead utilities.	
proximity to permenant structures, etc.); Add sketch of location on ba	ck, if necessary.	
Open Sield		
alar. see		
Describe well setting (for example, located in a field, in a playground,	on pavement, in a garden, etc.)	
and assess the type of restoration required.		
field		
	and station political and	
Note that is any nearby potential sources of contamination, if present (e.g	., yas station, sait pile, etc.)	
Remarks:		



DECOMMISSIONING PROCEDURES	(per NYSDEC DER-10) - continued
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I, D,:
BCP Site No. C915279	MUJ-5R
Decommissioning Data (Fill in all that apply)	Well Schematic*
Overdrilling NIA Interval Drilled NIA Drilling Method(s) Borehole Diameter (in.) Temp. Casing Installed? (Y/N) Depth temp. casing installed Casing type/diam (in.) Method of Installation Casing Pulling Method employed Method employed Nia Casing retrieved (feet) Nia Casing type/diam. (in.) PVC Casing Perforating Equipment used Number of perforations/foot Nichot	Depth Started basic hot (feet) after casi o uses Acmor
Size of perforations Interval perforated Grouting Interval grouted (fbgs) No. of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.)	
Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grount used (gal.) Comments	
	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.


PROJECT INFORMATION	WELL INFORMATION
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I,D.:
BCP Site No. C915279	MW-7
Client: Rupp Pfalzgraf LLC	Stick-up (feet):
Project Job Number: 4383.0005P000	Screen Interval (fbgs):
Date: 317 7 7 7/17/2024	Drilling Company: Farsh Dimension
Weather: 69. Closely, Shigh Breeze	Drill Rig Type: Diedach 250
Prepared by: Michael Monibe	Drilling Company Personnel: NIT
	S (per NYSDEC DER-10)
	YES NO
Well visibile? (If not, provide directions below)	<u> </u>
Well I.D. visible?	<u>×</u>
Well location matches site map? (If not, sketch actual location on bac	SK)
Well I.D. as it appears on protective casing or well:	MUS-7
Surface seal present?	\mathbf{x}
Surface seal competenet? (If cracked, heaved, etc., describe below)	×
Protective casing in good condition? (If damaged, describe below)	×
Headspace reading (ppm) and instrument used:	0.000-
Type of protective casing and height of stickup in feet (if applicable):	2.5
Protective casing material type:	cel
Measure protective casing inside diameter (inches):	10
Lock present?	X
Lock functional?	X
Did you replace the lock?	×
Is there evidence that the well is double cased? (If yes, describe belo	JW) X
Well measuring point visible?	X
Measure depth to water from measuring point (feet):	
Measure well depth from measuring point (feet):	
Measure well diameter (inches):	
Well casing material:	
Physical condition of visible well casing:	
Attach I.D. marker (if well I.D. is confirmed) and identify marker type:	DID
Proximity to underground or overhead utilities:	NA
Describe access to well: (Include accessibility to truck mounted rig, n	atural obstructions, overhead utilities,
proximity to permenant structures, etc.); Add sketch of location on ba	ck, if necessary.
Open Sield	
	=
Describe well setting (for example, located in a field, in a playground	on navement in a garden, etc.)
and assess the type of restoration required.	
field	
identity any nearby potential sources of contamination, if present (e.g	., gas station, sait pile, etc.)
Remarks:	



DECOMMISSIONING PROCEDURES	(per NYSDEC DER-10) - continued	
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:	
BCP Site No. C915279	MW-7	
Decommissioning Data (Fill in all that apply)	Well Schematic*	
Overdrilling Interval Drilled Drilling Method(s) Borehole Diameter (in.) Temp. Casing Installed? (Y/N) Depth temp. casing installed Casing type/diam (in.) Method of Installation	Depth graved box ndc (feet) after caving was fernow	
Method employed Polled oot Sizh Chrin Casing retrieved (feet) 29.3 Casing type/diam. (in.) 200 PVC Casing Perforating Equipment used NUMber of perforations/foot Size of perforations Interval perforated		
Grouting Interval grouted (fbgs) No. of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Cement type Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grount used (gal.)		
	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.	
	overdrilled, interval grouted, casing left in hole, well stickup, etc.	



PROJECT INFORMATION	WELL INFORMATION	
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.	
BCP Site No. C915279	Mw-9	
Client: Rupp Pfalzgraf LLC	Stick-up (feet): 3	
Project Job Number: 4383.0005P000	Screen Interval (fbgs):	
Date: 7/17/2024	Drilling Company: Farth Dimensions	
Weather: Conta Shich BREZE	Drill Rig Type: Newsch NI20	
Prepared by: Michael Lohue	Drilling Company Personnel:	
DECOMMISSIONING PROCEDURES	S (per NYSDEC DER-10)	
	YES NO	
Well visibile? (If not, provide directions below)	×	
Well I.D. visible?	×	
Well location matches site map? (If not, sketch actual location on bac	ck)	
Well I.D. as it appears on protective casing or well;	MW-9	
Surface seal present?		
Surface seal competenet? (If cracked, heaved, etc., describe below)	2	
Protective casing in good condition? (If damaged describe below)		
Headspace reading (ppm) and instrument used:	Open.	
Type of protective casing and height of stickup in feet (if applicable):	- 11· 3	
Protective casing material type:	rel	
Measure protective casing inside diameter (inches):	(P)	
Lock present?		
Lock functional?	X	
Did you replace the lock?		
Is there evidence that the well is double cased? (If yes, describe below)		
Well measuring point visible?		
Well measuring point visible :		
Measure depth to water from measuring point (feet):		
Measure well depth from measuring point (feet):		
Measure well diameter (inches):		
Well casing material:		
Physical condition of visible well casing:		
Attach I.D. marker (if well I.D. is confirmed) and identify marker type:	AIG	
Proximity to underground or overhead utilities:	SIP	
Describe access to well (Include accessibility to truck mounted rig. n	atural shatruations, succhood utilition	
Describe access to well: (Include accessionity to truck mounted ng, na		
proximity to permenant structures, etc.); Add sketch of location on ba	ck, if necessary.	
Open sield		
Describe well setting (for example, located in a field, in a playground,	on pavement, in a garden, etc.)	
and assess the type of restoration required.		
Sield		
Identify any nearby potential sources of contamination, it present (e.g	., gas station, salt pile, etc.)	
NIT		
Remarks:		



DECOMMISSIONING PROCEDURES (per NYSDEC DER-10) - continued			
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:		
BCP Site No. C915279	MIN-Q		
Barrent al a la Bata			
Decommissioning Data	Well Schematic*		
(Fill in all that apply)			
Decommissioning Data (Fill in all that apply) Overdrilling Interval Drilled Drilling Method(s) Borehole Diameter (in.) Temp. Casing Installed? (Y/N) Depth temp. casing installed Casing type/diam (in.) Method of Installation Casing Pulling Method employed Casing retrieved (feet) Casing retrieved (feet) Casing Perforating Equipment used Number of perforations/foot Size of perforations Interval perforated Grouting Interval perforated For each batch record: Quantity of cement used (lbs.) Cement type Quantity of calcium chloride used (lbs.) Volume of grount used (gal.) Volume of grount used (gal.)	Depth Storted box box box (feet) Barbara boxing Image:		



PROJECT INFORMATION	WELL INFORMATION		
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:		
BCP Site No. C915279	Mun-10		
Client: Rupp Pfalzgraf LLC	Stick-up (feet).		
Project Job Number: 4383.0005P000	Screen Interval (fbgs):		
Date: 7/17/2024	Drilling Company: Farth Dimensions		
Weather: 69 Cloudy Slight Breac	Drill Rig Type: Declarich P-120		
Prepared by: Michaely Lohise	Drilling Company Personnel: NN		
	S (per NYSDEC DER-10)		
BECOMMISSIONNOTROEBONE	YES NO		
Well visibile? (If not, provide directions below)	X		
Well I.D. visible?	×		
Well location matches site map? (If not, sketch actual location on bac	ck)		
Tradition			
Well I.D. as it appears on protective casing or well:	ML2-10		
Surface seal present?			
Surface seal competenet? (If cracked, heaved, etc., describe below)			
Protective casing in good condition? (If damaged, describe below)	X		
Headspace reading (ppm) and instrument used:	Obbu		
Type of protective casing and neight of stickup in feet (if applicable):	1.5		
Protective casing material type:	Steel		
Neasure protective casing inside diameter (inches).	>101		
Lock present?	×		
Lock functional?	×		
Did you replace the lock?	X		
Is there evidence that the well is double cased? (If yes, describe belo	w) 🔨 🖌		
Well measuring point visible?	- A		
Measure well depth to water from measuring point (feet):			
Measure well diameter (inches):			
Well casing material:			
Physical condition of vicible well casing:			
Attach I D. marker (if well I D. is confirmed) and identify marker type:	INA		
Proximity to underground or overhead utilities:	NA		
(
Describe access to well: (Include accessibility to truck mounted rig, n	atural obstructions, overhead utilities,		
proximity to permenant structures, etc.); Add sketch of location on ba	ck, if necessary.		
Open Sidd			
Describe well setting (for example, located in a field, in a playaround	on navement in a garden etc.)		
and assess the type of restoration required	on paromoni, in a galdon, cio.j		
Sidd			
arely			
Identify any nearby potential sources of contamination, if present (e.g	., gas station, salt pile, etc.)		
NIP			
M			
Remarks:			



DECOMMISSIONING PROCEDURES ((per NYSDEC DER-10) - continued	
PROJECT/SITE NAME: 1827 Fillmore Avenue	WELL I.D.:	
BCP Site No. C915279	MUD-10	
	1100-10	
Decommissioning Data	Well Schematic*	
(Fill in all that apply)		
	constal poor hole	
Overdrilling	Depth Store which which	
Interval Drilled	(feet) Bits remained Caping	
Drilling Method(s)		
Borehole Diameter (in.)		
Temp, Casing Installed? (Y/N)		
Depth temp, casing installed		
Casing type/diam (in)		
Method of Installation		
Method of Installation		
Oneira Dulling		
Mernod employed ruled at with Char		
Casing retrieved (feet) 20, 3		
Casing type/diam. (in.)		
Casing Perforating		
Equipment used		
Number of perforaitons/foot		
Size of perforations		
Interval perforated		
Grouting Interval grouted (fbgs) No. of batches prepared For each batch record: Quantity of water used (gal.) Quantity of cement used (lbs.) Quantity of bentonite used (lbs.) Quantity of calcium chloride used (lbs.) Volume of grout prepared (gal.) Volume of grount used (gal.) Quantity		
	* Obstals is all relationst decomparisonalize data the building to taken	
	overdrilled, interval grouted, casing left in hole, well stickup, etc.	
	eren er en eren groateer, skering ten in hore, hen ouvriep, etc.	

Summary of Green Remediation Metrics for Site Management

Site Name:		Site Code:	
Address:		City:	
State:	Zip Code:	County:	

Initial Report Period (Start Date of period covered by the Initial Report submittal) Start Date: ______

Current Reporting Period

Reporting Period From:	 To: _	

Contact Information

Preparer's Name:	Phone No.:	
Preparer's Affiliation:		

I. Energy Usage: Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

	Current	Total to Date
	Reporting Period	
Fuel Type 1 (e.g. natural gas (cf))		
Fuel Type 2 (e.g. fuel oil, propane (gals))		
Electricity (kWh)		
Of that Electric usage, provide quantity:		
Derived from renewable sources (e.g. solar,		
wind)		
Other energy sources (e.g. geothermal, solar		
thermal (Btu))		

Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.

II. Solid Waste Generation: Quantify the management of solid waste generated onsite.

	Current Reporting Period (tons)	Total (tons)	to	Date
Total waste generated on-site				
OM&M generated waste				
Of that total amount, provide quantity:				
Transported off-site to landfills				
Transported off-site to other disposal facilities				
Transported off-site for recycling/reuse				
Reused on-site				

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

III. Transportation/Shipping: Quantify the distances travelled for delivery of supplies and lab-supplied bottles, shipping of laboratory samples, and the removal of waste.

	Current Reporting Period (miles)	Total to Date (miles)
Standby Engineer/Contractor		
Laboratory Courier/Delivery Service		
(bottle and sample delivery)		
Waste Removal/Hauling		

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

IV. Water Usage: Quantify the volume of water used on-site from various sources.

	Current Reporting Period (gallons)	Total to (gallons)	Date
Total quantity of water used on-site			
(not including treated water)			
Of that total amount, provide quantity:			
Public potable water supply usage			
Surface water usage			
On-site groundwater usage			
Collected or diverted storm water usage			

Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.

V. Land Use and Ecosystems: Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	Current Reporting Period (acres)	Total (acres)	to	Date
Land disturbed				
Land restored				

Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.

Description of green remediation programs reported above
(Attach additional sheets if needed)
Energy Usage:
Waste Generation:
Transportation/Shipping:
Water usage:
Land Use and Ecosystems:
Recommendations/Other:
CONTRACTOR CERTIFICATION
CONTRACTOR CERTIFICATION

CONTRACTOR CERTIFICATIO	N						
I,	(Name)	do	hereby	certify	that	Ι	am
(Title) of			(Co	ntractor	Name), w	hich
is responsible for the work document	ed on this	form.	Accordin	g to my	knowle	edge	and
belief, all of the information provided	l in this for	m is	accurate a	nd the si	te mana	ager	nent
program complies with the DER-10, I	DER-31, ar	nd CP	-49 polici	es.			
							_
Date			Contrac	tor			



<u>NEW YORK STATE</u> DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil



<u>This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.</u>

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Signature

Date

Print Name

Firm



Field Inspection Report Post-Remedial Operation & Maintenance Plan

Property Name:		Project No.	:	
Client:				
Property Address:				
Property ID: (Tax Assessment Map)	Section:	Block	<:	Lot(s):
Preparer's		Date/Time:		
CERTIFICATION				
The results of this inspection were discussed wi been identified and noted in this report, and a su Proper implementation of these corrective action and scheduled.	ith the Site Man upplemental Col ns have been di	ager. Any corrective Actions scussed with	orrective action Form has the Site Ma	ions required have been completed. anager, agreed upon
Preparer / Inspector:			Dat	e:
Signature:				
Next Scheduled Inspection Date:				
Property Access				
1. Is the access road in need of repair?		yes	🗌 no	□ N/A
2. Sufficient signage posted (No Trespassing)?	yes	🗌 no	N/A
3. Has there been any noted or reported tresp	passing?	yes	🗌 no	N/A
Please note any irregularities/ changes in	site access ar	nd security:		
Final Surface Cover / Vegetation The integrity of the vegetative soil cover or othe	r surface covera	age (e.g., as	phalt, concre	ete) over the entire Si
must be maintained. The following documents	the condition of	the above.		
1. Final Cover is in Place and in good condition	on? 🗌 ye	s	no	□ N/A
Cover consists of (mainly):				
2. Evidence of erosion?	Γ γε	S	no	□ N/A
3. Cracks visible in pavement?	ye	s	no	□ N/A
4. Evidence of distressed vegetation/turf?	y∈	s	no	□ N/A
5. Evidence of unintended traffic and/or ruttin	g?y∈	s	no	N/A
6. Evidence of uneven settlement and/or pon	dina? 🗌 ve	s	no	N/A



Field Inspection Report Post-Remedial Operation & Maintenance Plan

Final Surface Cover / Vegetation (continued)				
7. Damage to any surface coverage?	yes	no	1	N/A
If yes to any question above, please provide more in	formation below			
Property Use Changes / Site Development				\checkmark
Has the property usage changed, or site been redeve	eloped since the	last inspection?	,	
		□ yes	no	🗆 N/A
If yes, please list with date:				
New Information				
Has any new information been brought to the owner/	engineer's atten	tion regarding ar	าy and/or al	II
engineering and institutional controls and their opera	tion and effectiv	eness?		
		yes	no	□ N/A
Comments:				
This appear for Notes and Comments				
This space for Notes and Comments				
Please include the following Attachments:				
1. Site Sketch				
2. Photographs				

APPENDIX G

REMEDIAL SYSTEM OPTIMIZATION TABLE OF CONTENTS

REMEDIAL SYSTEM OPTIMIZATION

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APPENDIX H

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

SITE MANAGEMENT PLAN

SITE CONTACTS

Name	Contact Information	Required Notification**
1827 Fillmore Avenue LLC Jonathan Swiatkowski, Manager Site Owner/Remedial Party	(719)898-6291 jswiatkows@ecmc.edu	All Notifications
Lori E. Riker, P.E. Qualified Environmental Professional	(716) 856-0599 Iriker@rouxinc.com	All Notifications
Megan Kuczka NYSDEC Project Manager	(716) 851-7220 Megan.Kuczka@dec.ny.gov	All Notifications
Andrea Caprio, P.E. Hazardous Waste Remediation Engineer	(716) 851-7220 Andrea.Caprio@dec.ny.gov	All Notifications
Kelly Lewandowski NYSDEC Site Control	(518) 402-9543 Kelly.Lewandowski@dec.ny.gov	Notifications 1 and 8
Steven Berninger NYSDOH Project Manager	(518) 402-7860 Steven.Berninger@health.ny.gov	Notifications 4, 6, and 7

* Note: Notifications are subject to change and will be updated as necessary. ** Note: Numbers in this column reference the numbered bullets in the notification list in this section.