REMEDIAL INVESTIGATION/ ALTERNATIVE ANALYSIS REPORT

160-164 EAST 4TH STREET DUNKIRK, CHAUTAUQUA COUNTY, NEW YORK NYSDEC SITE NO. C907051



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ACRONYMS

AAR Alternative Analysis Report
ACM Asbestos Containing Material

ASL Above Sea Level

ADA Americans with Disabilities Act
BCA Brownfield Cleanup Agreement
BCP Brownfield Cleanup Program

BE3 Brydges Engineering in Energy and Environment

bgs Below Ground Surface C&D Construction and Demolition

CAMP Community Air Monitoring Program

COC Contaminants of Concern CP Commissioner Policy

DER Division of Environmental Remediation
DNAPL Dense Nonaqueous Phase Liquid

DO Dissolved Oxygen

DUSR Data Usability Summary Report

EC Engineering Control
EE Environmental Easement

EIFS Exterior Insulation and Finish System

ELAP Environmental Laboratory Approval Program

EPA Environmental Protection Agency
ESA Environmental Site Assessment

EWP Excavation Work Plan

FEAF Full Environmental Assessment Form

GPR Ground Penetrating Radar
GPS Global Positioning System

GSF Gross Square Feet
HASP Health and Safety Plan
HSA Hollow Stem Auger
IC Institutional Control
ID Inside Diameter

μg/m³ Micrograms per Cubic Meter
LNAPL Light Nonaqueous Phase Liquid
NTU Nephelometric Turbidity Units

NYCRR New York Codes, Rules and Regulations

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

NYSDOT New York State Department of Transportation
NYSHCR New York State Homes and Community Renewal

ORP Oxidation-Reduction Potential PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl

PFAS Per- and Polyfluoroalkyl Substances

PID Photoionization Detector

ppm Parts Per Million PVC Polyvinyl Chloride

QA/QC Quality Assurance/Quality Control



QEP Qualified Environmental Professional

QHHEA Qualitative Human Health Exposure Assessment

RAO Remedial Action Objective Remedial Action Work Plan **RAWP**

RCRA Resource Conservation and Recovery Act

Remedial Investigation RI

Standards, Criteria, and Guidance SCG

SCO Soil Cleanup Objective **SMP** Site Management Plan

SVOC Semi-Volatile Organic Compound **SWPPP** Stormwater Pollution Prevention Plan

TAL Target Analyte List TCL **Target Compound List**

TENORM Technologically Enhanced Naturally Occurring Radioactive Material

TIC **Tentatively Identified Compound**

Technical and Operational Guidance Series TOGS

UST Underground Storage Tank VOC Volatile Organic Compound



CERTIFICATION

I, Jason Brydges, certify that I am currently a New York State registered professional engineer as defined in 6 New York Codes, Rules and Regulations (NYCRR) Part 375 and that this Remedial Investigation/Alternative Analysis Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Department of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

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Jason M. Brydges, PE



1.0 INTRODUCTION

Regan Development Corporation has obtained an executed Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) as a Volunteer for the property located at 160-164 East 4th Street in the City of Dunkirk, Chautauqua County, New York (the "Site"). The Site is enrolled in the Brownfield Cleanup Program (BCP) under BCP Site No. C907055 and is approximately 2.15 acres in size. A Site Location Map is provided as **Figure 1**, and the Boundary Survey Map is included as **Figure 2**.

Regan Development Corporation has retained Brydges Engineering in Environment and Energy (BE3) to conduct a Remedial Investigation (RI) and prepare an Alternatives Analysis Report (AAR) for the Site, as required under the BCA. The goal of the project is to remediate the Site to support the redevelopment of multi-family residential units, associated parking areas, and recreational/greenspace amenities.

1.1 SITE BACKGROUND

The Site is 2.15-acres containing a structure that includes two storefronts in the eastern central portion of the Site connected to a larger commercial plaza. Surrounding the structure is an asphalt parking lot in the south and a section of greenspace to the north.

Environmental investigations conducted to date, including a BE3 Phase II Environmental Site Assessment (ESA), indicate the presence of impacted soil and groundwater due to historical site uses and the presence of urban fill. Constituents of concern identified in soil include semi-volatile organic compounds (SVOCs), specifically polycyclic aromatic hydrocarbons (PAHs), and various metals. Groundwater samples from temporary monitoring wells indicated impacts from volatile organic compounds (VOCs) and metals. Historical data also suggests the potential for petroleum, polychlorinated biphenyls (PCBs), and chlorinated solvents.

Historical records including street directories and Sanborn Maps indicate that the Site was mixed use residential/commercial. Sanborn maps indicate that from 1888 to 1964, the subject property contained several residences. The area was redeveloped into commercial buildings dating back to 1985. Historical street directories indicate the Site has been occupied by a Family Dollar store from 1985 to 2020 and a VA clinic from 2010 to 2020.

1.2 CONTEMPLATED USE OF THE SITE

The proposed use of the Site includes development of multi-family apartment units, an associated parking area and recreational/greenspace. It should be noted that the existing building on Site will be removed as part of the new development and the planned remedial track is Track 4 - Restricted Residential Use.

1.3 IDENTIFICATION OF STANDARDS, CRITERIA, AND GUIDANCE

Standards, criteria, and guidance (SCGs) are promulgated requirements ("standards" and "criteria") and non-promulgated guidance ("guidance") that govern activities that may affect the environment and are used by the NYSDEC at various stages in the investigation and remediation of a site. The following are the primary SCGs for this project:

- NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs, December 2006.
- NYSDEC DER-10 Technical Guidance for Site Investigations and Remediation, May



Client: Regan Development | Project: 160-164 E 4th Street RI/AAR

Date: 09/2025 | Author: PS | Revision #: 0

2010.

- NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998.
- NYSDEC Commissioner Policy (CP)-51 Soil Cleanup Guidance, October 2010.
- NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023.
- NYSDEC 6 NYCRR 360 Solid Waste Management Facilities General Requirements, August 2020.
- New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion, May 2017 updated February 2024.

2.0 REMEDIAL INVESTIGATION APPROACH

The Remedial Investigation (RI) was conducted in general accordance with the November 2024 Remedial Investigation Work Plan (RIWP (Revised July 2025), Regan Development Corporation, 166 East 4th Street, City of Dunkirk, Chautauqua County, New York, Site No. C907055. NYSDEC issued an approval letter for the RIWP on July 31st, 2025.

RI activities generally included the following:

- Subsurface soil borings to evaluate fill thickness and native material
- Installation of shallow and intermediate-depth groundwater monitoring wells
- Vapor point installation
- Soil, groundwater, and soil vapor sampling for chemical analysis

A Qualified Environmental Professional (QEP) from Brydges Engineering in Environment and Energy (BE3) was present on site during all intrusive field work. Prior to any subsurface activities, the underground utility locating service was contacted to mark known utilities. The approximate locations of historic Phase II and RI sampling points are presented on **Figure 3**. GPS coordinates for each sampling location are summarized in **Table 6**. Daily Field Reports (DFRs) documenting work performed, weather conditions, equipment used, and any deviations are provided in Appendix A, with a corresponding photolog and location sketches. Additional site photographs are included in Appendix B.

A Community Air Monitoring Program (CAMP) was implemented in accordance with NYSDOH DER-10 guidance throughout the duration of intrusive RI fieldwork. Real-time monitoring was conducted for particulate matter (dust) and total volatile organic compounds (VOCs). Particulate concentrations downwind of work areas did not exceed 100 micrograms per cubic meter ($\mu g/m^3$) above background levels for any 15-minute period. VOC concentrations remained below the action level of 5 parts per million (ppm) above background during all monitored periods. Air monitoring results are included in the DFRs in Appendix A.



2.1 RI DEVIATIONS

During the course of the Remedial Investigation, field conditions necessitated deviations from the originally approved July 2025 Remedial Investigation Work Plan (RIWP).

2.1.1 GROUNDWATER INVESTIGATION DEVIATIONS

The approved RIWP included the installation and sampling of 5 overburden monitoring wells across the Site to characterize the underlying hydrologic conditions and identify any deep contamination concerns. However, due to unanticipated subsurface conditions encountered during sampling, RI-MW-1 was dry and unable to be sampled. Since additional efforts did not produce groundwater and all other wells were clean/unimpacted, it is BE3's opinion that additional groundwater sampling in this location is unnecessary.

2.2 SOIL INVESTIGATION

On May 27-29th, August 7th, and 11th 2025, a total of 18 exterior and 2 interior soil borings, (RI-BH-1 through RI-BH-20), and 4 surface samples (SS-1 through SS-4), were completed across the Site to evaluate fill characteristics and identify contamination within shallow subsurface soils. A total of 5 soil samples were also taken from proposed screened intervals of planned RI monitoring wells. The majority of borings were advanced using a track-mounted Geoprobe® 7720DT direct-push drilling rig. Due to access constraints for the interior boring, RI-BH-10, a concrete core drill was used to breach the slab, followed by hand-augering to refusal. Surface samples were completed using a hand shovel. Locations were selected to provide representative site coverage, particularly in areas with a history of potential contaminant use or fill placement. Boring locations were finalized in the field based on site conditions and the presence of potential subsurface features.

Soil collected from Geoprobe® borings was continuously recovered using 5-foot acetate sleeves. Borings were terminated at refusal, with final depths ranging from approximately 10 to 16 feet below ground surface (bgs). Soil collected using the hand auger for RI-BH-10 was continuously recovered using 2-foot acetate sleeves and the boring was terminated at 6 feet bgs due to refusal.

A specific number of soil samples were collected from each boring to accurately characterize the sub surface across the site. A sample summary can be seen below:

Summary of Samples and Sample Rationale

Soil Boring	Number of Samples	Sampling Rationale
RI-BH-1	2	Nature and Extent of Fill Layer
and RI-BH-2	2	Characterize Native Soil



RI-BH-3 and RI-BH-4	1	Nature and Extent of Fill Layer
RI-BH-5 through RI-BH-	2	Nature and Extent of Fill Layer
11	2	Characterize Native Soil
RI-BH-12 through RI-BH- 14	1	Nature and Extent of Fill Layer
DI DI I 45	2	Nature and Extent of Fill Layer
RI-BH-15	2	Characterize Native Soil
RI-BH-16	1	Nature and Extent of Fill Layer
RI-BH-17 and	2	Nature and Extent of Fill Layer
RI-BH-18	2	Characterize Native Soil
RI-BH-19 and RI-BH-20	1	Nature and Extent of Fill Layer
RI-MW-1 through RI-MW-	1	Characterize Soil Surrounding Well Screens
SS-1 Through SS-4	1	Characterize Near Surface Soils for Potential Health Risks

All recovered soil was visually classified and field screened for volatile organic compounds (VOCs) using a photoionization detector (PID). Screening involved exposing the open core to ambient conditions and recording the maximum PID reading.

Soil samples were placed into laboratory-provided containers, packed in coolers with ice, and submitted under chain-of-custody to Eurofins Environment Testing – Buffalo, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory.



2.3 GROUNDWATER INVESTIGATION

As part of the Remedial Investigation, 5 overburden monitoring wells were installed to assess groundwater across the site.

2.3.1 WELL CONSTRUCTION

Monitoring wells were constructed at 5 locations between May 28th and May 29th, 2025. Initial drilling was performed using a 4.25-inch diameter hollow stem auger (HSA) advanced to 1 to 2 feet above suspected bedrock. The completed wells (RI-MW-1 through RI-MW-5) were finished to depths of 13 ft, 8 ft, 15 feet, 15 ft and 14.5 feet bgs, respectively. Each well consists of a 2-inch inside diameter (ID), Schedule 40 polyvinyl chloride (PVC) casing with a 5-foot well screen with 0.010-inch slot size. The screened interval was surrounded with clean, porous sand to approximately 1 foot above, followed by a bentonite seal. All wells were completed at grade, fitted with a lockable J-plug, covered with a protective curb box, and labeled for permanent identification.

Drill cuttings and development spoils were containerized in New York State Department of Transportation (NYSDOT) approved drums and labeled for subsequent characterization and disposal in accordance with applicable Resource Conservation and Recovery Act (RCRA) regulations. Well construction logs are provided in Appendix D.

2.3.2 WELL DEVELOPMENT

Monitoring wells RI-MW-2 through RI-MW-5 were developed on May 30th, 2025. Development was conducted using a weighted bailer to remove suspended solids and improve hydraulic connectivity. As noted above, RI-MW-1 was found to be dry and could not be developed. All development water was containerized in NYSDOT-approved drums and labeled according to the well of origin.

No light non-aqueous phase liquid (LNAPL), dense non-aqueous phase liquid (DNAPL), sheen, or notable odors were observed during development. Field parameters—pH, temperature, turbidity, dissolved oxygen (DO), oxidation-reduction potential (ORP), specific conductance, flow rate, and water level—were recorded periodically for stabilization and health and safety monitoring. Visual and olfactory screening and photoionization detector (PID) readings were also conducted.

Final determination regarding the proper disposition of development water (e.g., on-site treatment, off-site disposal, or surface discharge with NYSDEC approval) will be made based on laboratory analytical results. Well development logs are provided in Appendix E.

2.3.3 GROUNDWATER SAMPLING

Groundwater sampling was conducted on June 2^{nd} and 3^{rd} , 2025. Low-flow sampling techniques were employed using a peristaltic pump and dedicated tubing in accordance with NYSDEC-approved procedures.

Field parameters were continuously monitored throughout purging and sampling, consistent with the protocol described in Section 2.3.2. Sampling commenced once stabilization criteria were met and turbidity levels were confirmed to be below 50 Nephelometric Turbidity Units (NTU).



Samples were placed in laboratory-supplied containers, preserved as required, packed in iced coolers, and submitted under chain-of-custody to Eurofins Environment Testing – Buffalo, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory. Groundwater analytical results are summarized in Table 2, and purge logs are included in Appendix F.

2.4 VAPOR INVESTIGATION

2.4.1 VAPOR POINT INSTALLATION

On May 29th, 2025, 6 vapor points were completed across the Site in unique boreholes to evaluate fill characteristics and identify contamination within shallow subsurface soils. Vapor points were advanced using a track-mounted Geoprobe® 7720DT direct-push drilling rig. Locations were selected to provide representative site coverage, particularly in areas with a history of potential contaminant use or fill placement. Vapor point locations were finalized in the field based on site conditions and the presence of potential subsurface features.

Each vapor point consisted of a ¼-inch outer diameter polyvinyl chloride (PVC) tubing fitted with a 3/8-inch stainless steel mesh screen at the base. The screened interval was surrounded with clean, porous sand to a depth of approximately 2 feet, followed by a bentonite seal to isolate the probe and prevent preferential pathways for vapor migration along the boring annulus. Vapor point construction details are documented in Appendix G.

2.4.2 VAPOR POINT SAMPLING

Soil vapor sampling was conducted after consultation and coordination with the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH). Sampling locations were selected to provide comprehensive spatial coverage across the Site and were biased toward the deeper boring locations to assess worst-case vapor intrusion potential.

Sampling was conducted over a 24-hour period beginning on May 29th, 2025, using 6-liter SUMMA® canisters equipped with calibrated 24-hour regulators. All sampling activities were performed in accordance with the latest NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 and subsequent amendments).

Canisters were submitted to Eurofins Environment Testing – Burlington, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory, under proper chain-of-custody protocols. Analytical results are summarized in Table 3.

2.4.3 QUALITY ASSURANCE/ QUALITY CONTROL SAMPLING

Quality assurance and quality control (QA/QC) sampling was performed in accordance with the approved Remedial Investigation Work Plan (RIWP) and the site-specific Quality Assurance Project Plan (QAPP). The QA/QC program was designed to ensure data quality objectives were met for precision, accuracy, representativeness, comparability, and completeness. These data are required to support third-party validation and development of a complete Data Usability Summary Report (DUSR).



The following QA/QC samples were collected:

- A matrix spike/matrix spike duplicate (MS/MSD) pair was collected from soil borings completed for monitoring well RI-MW-1 and RI-MW-5.
- A field duplicate sample was collected from the boring hole completed for RI-MW-3 and RI-MW-4 and labeled RI-MW-3-DUP and RI-MW-4-DUP. Results of these duplicate samples are presented in Table 1.
- During groundwater sampling, an MS/MSD pair and a trip blank were collected and submitted with the sample batch.

Laboratory analytical reports are included in Appendix J. The third-party validated Data Usability Summary Reports (DUSRs) are provided in Appendix K as separate attachments.

3.0 PHYSICAL CHARACTERISICS OF THE AREA

3.1 SURFACE FEATURES

The Site comprises approximately 2.15 acres and is located at 160-164 East 4th Street in the City of Dunkirk, Chautauqua County, New York. The property is identified as Section-Block-Lot (SBL) No. 79.57-2-15.1 and consists of a single commercial parcel.

A single-story commercial building occupies the eastern-central portion of the Site and includes two storefront units that are structurally connected to an adjacent commercial plaza (located off-site). Surrounding the structure is an asphalt-paved parking area to the south and an undeveloped greenspace to the north. The building is currently vacant and shows signs of deterioration. The parking lot exhibits surface cracking and signs of aging, particularly in the southern portion of the Site. Topographically, the Site exhibits moderate elevation change, sloping gradually downward from south to north.

The land use distribution on the Site is summarized in the table below:

Description	Location	Acreage	% of total Site area
Building	Central Eastern	0.28	13
Greenspace	North	0.43	20
Hardscape	Across Site	1.44	67

The Site is zoned for C-2 General Commercial (Community Business) and is located in a mixed-use urban corridor. Adjacent land uses include:

- North: Rail lines and residential housing
- South: Commercial and residential
- East: Adjacent commercial plaza
- West: Municipal buildings and light commercial uses

A Site Location Map and a detailed Site Plan are provided in **Figure 1** and **Figure 2**, respectively.



3.2 SUBSURFACE FEATURES

3.2.1 SITE GEOLOGY

Subsurface conditions at the Site were evaluated through two Phase II ESA investigations. In September 2023, a total of 15 soil borings were advanced across the property, with 2 borings converted to temporary groundwater monitoring wells. In April 2024, an additional 12 soil borings were completed, including 1 boring converted to temporary well.

In May and August 2025, during the RI an additional 20 soil borings and 5 monitoring wells were completed. In total, 41 soil samples and 6 groundwater samples were collected for analysis.

The soil borings indicate that the Site is generally underlain by urban fill, consisting of brown to black silty clayey sand containing construction-related debris such as brick fragments and concrete. The depth of the fill ranged from approximately 0 to 7 feet below ground surface (bgs). Beneath the fill, the native material typically consisted of stiff red-brown and gray silty clay or clayey silt.

During advancement of the borings, refusal was encountered at depths of approximately 8 feet to 16 feet bgs, which is interpreted to represent the top of bedrock.

3.2.2 SITE HYDROGEOLOGY

Based on the results of the Remedial Investigation, groundwater at the Site is present at 5.2 to 9.5 ft. Multiple rounds of topographic/elevation data indicates the following groundwater elevations in feet above sea level (ASL) for each well:

Well ID	Elevation (feet ASL)	
RI-MW-2	594.35	
RI-MW-3	589.3	
RI-MW-4	588.9	
RI-MW-5	586.75	

Groundwater was not encountered in RI-MW-1. Based on these observations, groundwater appears to flow northwest.

3.2 DEMOGRAPHY AND LAND USE

The Site is currently vacant and underutilized, with zoning and surrounding land uses consistent with a mixed-use commercial and residential corridor within the City of Dunkirk. The property is bordered by a combination of residential neighborhoods, commercial establishments, and municipal facilities, reflecting a diverse urban setting.

The proposed future use of the Site involves the redevelopment of the property into a multifamily residential apartment complex, supported through the New York State Brownfield Cleanup Program (BCP). The planned development will include:

- Multi-family apartment units
- An associated off-street parking area



Recreational and landscaped greenspace

As part of the proposed redevelopment, the existing commercial building on the Site will be demolished. The planned environmental remedy will proceed under Track 4 (Restricted Residential Use) of the BCP, which allows for redevelopment with the application of site cover systems and institutional/engineering controls as needed to manage residual contamination. This redevelopment will provide long-term community benefit by supporting housing development, eliminating a blighted structure, and promoting the productive reuse of historically impacted land.

4.0 LABORATORY ANALYSIS

4.1 SOIL

All soil samples were analyzed for the following:

- Target Compound List (TCL) VOCs + Tentatively Identified Compounds (TICs) Environmental Protection Agency (EPA) Method 8260
- TCL semi-volatile organic compounds (SVOCs) + TICs EPA Method 8270
- Target Analyte List (TAL) Metals (Including mercury and total cyanide) EPA Method 6010/7470/7471
- PCBs EPA Method 8280
- TCL Pesticides EPA Method 8081
- 1,4-dioxane EPA Method 8270SIM
- PFAS EPA Method 1633

4.2 GROUNDWATER

All groundwater samples were analyzed for the following:

- TCL VOCs and TICs-EPA Method 8260
- TCL SVOCs EPA Method 8270
- TAL Metals + cyanide-EPA Method 6010/7470/7471
- PCBs EPA Method 8280;
- Pesticides

 EPA Method 8081;
- 1,4-dioxane
 EPA Method 8270SIM
- PFAS EPA Method 1633

4.3 SOIL VAPOR

Soil vapor samples were analyzed for TCL VOCs by EPA Method TO-15.

5.0 DISCUSSION OF RESULTS

5.1 SOIL SAMPLING ANALYTICAL RESULTS

All RI soil sampling results exceeding unrestricted SCOs are listed on **Figure 4** and **Figure 5**. All RI sampling results exceeding restricted residential SCOs are listed on **Figure 6**.



5.1.1 METALS

A multitude of soil samples exceeded various metal SCOs as specified in the tables below.

	Unrestricted E	xceedances	
Analyte	Sample ID	Result	Standard
_	RI-BH-17 8-11'	15.2	
Arsenic	RI-BH-18 5-8'	13.9	13
	RI-BH-19 3-5'	14.2	
	RI-BH-1 2-5'	19.4	
	RI-BH-2 1-4'	17.9	
	RI-BH-3 2-5'	19.5	
	RI-BH-4 1-4'	13.7	-
	RI-BH-5 1-5'	14.0	-
	RI-BH-5 5-8'	16.1	-
	RI-BH-6 1-3'	19.1	-
	RI-BH-6 4-7'	20.3	-
	RI-BH-7 4-6'	15.4	-
	RI-BH-8 1-4'	10.7	
	RI-BH-9 6-9'	17.1	-
	RI-BH-11 1-4'	17.0	-
	RI-BH-12 1-3'	11.8	1
	RI-BH-14 0-3'	20.0	-
	RI-BH-15 0-3'	6.0	-
Chromium	RI-BH-15 7-10'	15.2	1
	RI-BH-16 0-3'	21.5	-
	RI-BH-17 0-3'	21.5	-
	RI-BH-17 0-3'	16.8	
	RI-BH-18 0-3'	21.5	
	RI-BH-18 5-8'	12.6	
	RI-BH-19 3-5'	18.5	
	RI-BH-20 2-4'	15.6	
	RI-MW-1 8-11'	17.7	
	RI-MW-2 4-7'	19.1	
	RI-MW-3 8-11'	17.1	
	RI-MW-3 DUP 8-11'	18.4	
	RI-MW-4 9-12'	15.1	
	RI-MW-4 DUP 9-12'	14.4	
	RI-MW-5 9-12'	14.1	
	SS-2 0.17-0.5'	15.5	
	RI-BH-1 2-5'	56.5	
	RI-BH-2 1-4'	76.3	1
	RI-BH-7 1-4'	62.8	1
	RI-BH-16 0-3'	53.7	1
Copper	RI-BH-17 0-3'	67.8	50
	RI-BH-18 5-8'	51.0	
	RI-BH-19 3-5'	57.3	1
	SS-3 0.17-0.5'	109	1



	RI-BH-1 2-5'	283	
	RI-BH-2 1-4'	284	
	RI-BH-6 1-3'	262	
	RI-BH-8 1-4'	96.6	
	RI-BH-10 1-4'	64.3	
Lead	RI-BH-11 1-4'	67.5	63
Leau	RI-BH-17 0-3'	293	03
	RI-BH-18 0-3'	64.3	
	SS-1 0.17-0.5'	168	
	SS-2 0.17-0.5'	72.4	
	SS-3 0.17-0.5'	101	
	SS-4 0.17-0.5'	157	
Manganese	RI-BH-1 2-5'	1880	1600
	RI-BH-2 1-4'	0.54	
	RI-BH-6 1-3'	0.42	
	RI-BH-7 1-4'	0.34	
	RI-BH-8 1-4'	0.24	
Mercury	RI-BH-9 1-3'	0.41	0.18
·	RI-BH-12 1-3'	0.62	
	RI-BH-19 3-5'	0.66	
	SS-1 0.17-0.5'	0.22	
	SS-4 0.17-0.5'	0.25	
	RI-BH-2 5-8'	35.6	
	RI-BH-6 4-7'	33.6	
	RI-BH-7 4-6'	40.6	
	RI-BH-8 6-9'	37.8	
	RI-BH-11 6-9'	35.5	
	RI-BH-14 0-3'	35.5	
	RI-BH-15 7-10'	33.6	
Niekol	RI-BH-17 8-11'	32.0	20
Nickel	RI-BH-19 3-5'	39.1	30
	RI-MW-1 8-11'	36.8	
	RI-MW-2 4-7'	46.4	
	RI-MW-3 8-11'	42.3	
	RI-MW-3 DUP 8-11'	43.8	
	RI-MW-4 9-12'	32.2	
	SS-1 0.17-0.5'	31.6	
	SS-4 0.17-0.5'	36.7	
	RI-BH-1 2-5'	149	
	RI-BH-1 6-9'	147	
	RI-BH-2 1-4'	167	
	RI-BH-3 2-5'	155	
Zinc	RI-BH-6 1-3'	127	109
ZIIIC	RI-BH-7 1-4'	638	108
	RI-BH-9 1-3'	370	
	RI-BH-14 0-3'	213	
	RI-BH-16 0-3'	122	l l
	RI-BH-17 0-3'	328	



RI-BH-17 8-11'	158	
RI-BH-18 0-3'	113	
RI-BH-19 3-5'	892	
RI-MW-5 9-12'	158	
SS-1 0.17-0.5'	156	
SS-2 0.17-0.5'	132	
SS-3 0.17-0.5'	155	
SS-4 0.17-0.5'	153	

Residential Exceedances			
Analyte	Sample ID	Result	Standard
	RI-BH-4 1-4'	368	
Barium	RI-BH-10 1-4'	354	350
	RI-BH-20 2-4'	364	
	RI-BH-1 6-9'	29.0	
	RI-BH-2 5-8'	28.2	
	RI-BH-7 4-6'	23.5	
	RI-BH-8 6-9'	26.4	
Chromium	RI-BH-10 1-4'	24.1	22
Cilionilani	RI-BH-11 6-9'	28.5	22
	RI-BH-13 1-4'	23.3	
	SS-1 0.17-0.5'	26.4	
	SS-3 0.17-0.5'	24.2	
	SS-4 0.17-0.5	28.2	

Restricted Residential Exceedances			
Analyte	Sample ID	Result	Standard
	RI-BH-9 1-3'	687	400
Lead	RI-BH-16 0-3'	409	
	RI-BH-19 3-5'	454	
Mercury	RI-BH-1 2-5'	1.2	0.01
	RI-BH-18 0-3'	1.0	0.81

Commercial Exceedances			
Analyte	Sample ID	Result	Standard
Danisses	RI-BH-2 5-8'	531	400
Barium	RI-BH-7 1-4'	865	400
Copper	RI-BH-9 1-3'	598	270

Industrial Exceedances			
Analyte	Sample ID	Result	Standard
	RI-BH-4 1-4'	41.5	16
	RI-BH-7 1-4'	33.4	
Arsenic	RI-BH-10 1-4'	19.8	
	RI-BH-20 2-4'	16.4	
	SS-2 0.17-0.5'	17.2	



Lead	RI-BH-7 1-4'	4950	3900

5.1.2 SVOC's

A multitude of soil samples exceeded various SVOC SCOs as specified in the tables below.

Unrestricted Exceedances			
Analyte	Sample ID	Result	Standard
	RI-MW-1 8-11'	1.8	
	RI-MW-2 4-7'	6.3	
	RI-MW-3 8-11'	1.8	
Phenol	RI-MW-3 DUP 8-11'	3.9	0.33
	RI-MW-4 9-12'	1.7	
	RI-MW-4 DUP 9-12'	0.76	
	RI-MW-5 9-12'	0.42	

Residential Exceedances			
Analyte	Sample ID	Result	Standard
	RI-BH-2 1-4'	1	
Benzo(k)fluoranthene	RI-BH-7 1-4'	2.6	1
	SS-1 0.17-0.5'	1.7	
	RI-BH-2 1-4'	1.5	
Chrysene	SS-1 0.17-0.5'	3.6	1
-	SS-4 0.17-0.5'	1.4	

Restricted Residential Exceedances			
Analyte	Sample ID	Result	Standard
	RI-BH-7 1-4'	4.3	
Benzo(a)anthracene	RI-BH-16 0-3'	409	400
	SS-1 0.17-0.5'	2.9	
	RI-BH-2 1-4'	2	
	RI-BH-7 1-4'	4.7	
Benzo(b)fluoranthene	SS-1 0.17-0.5'	4.9	1
	SS-2 0.17-0.5'	1.5	
	SS-4 0.17-0.5'	1.8	
Chrysene	RI-BH-7 1-4'	4.3	3.9
	RI-BH-2 1-4'	0.88	
Indeno(1,2,3-cd)pyrene	RI-BH-7 1-4'	2.3	0.5
	SS-1 0.17-0.5'	2.4	0.5
	SS-4 0.17-0.5'	0.87	

Commercial Exceedances				
Analyte Sample ID Result Standard				
Dibenz(a,h)anthracene	RI-BH-9 1-3'	598	270	



Industrial Exceedances			
Analyte	Sample ID	Result	Standard
Benzo(a)pyrene	RI-BH-2 1-4'	1.3	
	RI-BH-7 1-4'	4.1	1.1
	SS-4 0.17-0.5'	1.1	

5.1.3 VOC's

Unrestricted Exceedances			
Analyte	Sample ID	Result	Standard
	RI-BH-4 1-4'	0.2	
	RI-BH-5 5-8'	0.26	0.05
Acetone	RI-BH-10 1-4'	0.11	
	RI-BH-13 1-4'	0.16	
	RI-BH-17 8-11'	0.08	

5.1.4 ORGANOCHLORINE PESTICIDES

Unrestricted Exceedances			
Analyte	Sample ID	Result	Standard
	RI-BH-4 1-4'	0.0081	
4 4' DDD	RI-BH-7 1-4'	0.019	0.0033
4,4'-DDD	RI-BH-16 0-3'	0.0038	0.0033
	RI-BH-19 3-5'	0.0054	
4 4' DDE	RI-BH-16 0-3'	0.0066	0.0022
4,4'-DDE	RI-BH-19 3-5'	0.0043	0.0033
	RI-BH-1 2-5'	0.0037	
	RI-BH-1 6-9'	0.0036	
	RI-BH-2 1-4'	0.064	
	RI-BH-7 1-4'	0.025	
	RI-BH-10 1-4'	0.012	
4,4'-DDT	RI-BH-12 1-3'	0.0036	0.0033
4,4 -טטו	RI-BH-13 1-4'	0.069	0.0033
	RI-BH-16 0-3'	0.017	
	RI-BH-17 0-3'	0.0042	
	RI-BH-18 0-3'	0.0035	
	RI-BH-19 3-5'	0.0039	
	RI-MW-1 8-11'	0.057	

5.1.5 PCB's

There were no exceedances of PCB's found in any of the soils samples taken.



5.1.6 PFAS

Unrestricted Exceedances			
Analyte Sample ID Result Standard			
Perfluorooctanesulfonic acid (PFOS)	RI-BH-18 0-3'	1.6	0.88

5.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

All RI groundwater sampling results exceeding TOGS 1.1.1 guidelines are listed on Figure 7.

5.2.1 METALS

TOGS Exceedances			
Analyte	Sample ID	Result	Standard
	RI-MW-2	0.77	
Iron	RI-MW-3	1.3	0.3
	RI-MW-4	0.35	
	RI-MW-3	36.6	
Magnesium	RI-MW-4	47.8	35
-	RI-MW-5	43.8	
Manganese	RI-MW-3	0.34	
	RI-MW-4	0.47	0.3
	RI-MW-5	2.6	

5.2.2 SVOC's

There were no exceedances for SVOCs in any of the wells sampled.

5.2.3 VOC's

TOGS Exceedances				
Analyte Sample ID Result Standard				
Acetone RI-MW-5 51 50				

5.2.4 ORGANOCHLORINE PESTICIDES

There were no exceedances for organochlorine pesticides in any of the wells sampled.

5.2.5 PCB's

There were no exceedances for PCBs in any of the wells sampled.

5.2.6 PFAS

There were no exceedances for PFAS in any of the wells sampled.



6.0 FATE AND TRANSPORT OF CONTAMINANTS OF CONCERN

The soil, groundwater and soil vapor sample analytical results were incorporated with the physical Site conditions to evaluate the fate and transport of COC in Site media. The mechanisms through which the COC can migrate to other areas or media are briefly outlined below. The potential pathways are evaluated in the context of pre-remedial conditions.

6.1 FUGITIVE DUST

Contaminants present in soil can be released into ambient air due to fugitive dust generation from disturbance of dry friable soils. The Site currently contains one dilapidated building surrounded by asphalt parking and minimal greenspace which limits any fugitive dust generation.

During demolition, redevelopment construction and remedial work, fugitive dust may be generated. A Health and Safety Plan (HASP) along with a CAMP will be prepared, as required, by the RAWP, which will minimize fugitive dust concerns during this time. The fugitive dust migration pathway is not presently a relevant pathway, however, during remediation activities, fugitive dust migration will be more relevant and not be relevant thereafter due to the proposed soil cover system and new development. During construction activities, the contractor will institute dust control measures per the site specific January 2024 Stormwater Management Report (SWMR).

6.2 SURFACE WATER

The potential for impacted soil particle transport with surface water runoff is considered low due to the hardscape and existing vegetative cover over impacted soil across the Site. Although heavy rainfall can cause erosion in greenspace areas, no sensitive receptors are present within close proximity to the Site.

Redevelopment will include new structures, paved areas, and landscaping. The January 2024 SWMR will control storm water during construction and remediation activities. The redevelopment design includes substantial bioretention planters to handle surface water upon completion of redevelopment. Therefore, the movement of impacted soil by surface water runoff is not considered a relevant migration pathway.

6.3 VOLITILIZATION

No VOCs were detected above their SCOs in soil samples from the RI or previous investigations. Groundwater samples collected from on-site wells during the RI indicated that VOCs are not present in groundwater above TOGS 1.1.1 guidance values.

6.4 LEACHING

Leaching refers to contaminants in soil/fill migrating into groundwater due to infiltration of stormwater.

VOCs, SVOCs, PCBs, and pesticides were not detected above TOGS 1.1.1 guidance values in the groundwater samples collected from the 4 productive monitoring wells during the RI. Although the metals Iron, Magnesium, Manganese, and Sodium were detected above TOGS 1.1.1 guidance values, constituents are likely naturally occurring as a result of native minerals



in the subsurface.

VOCs were not detected in the soil samples above any SCOs, however, both SVOCs (primarily PAHs) and metals were detected in the site soils above restricted residential SCOs. PAHs and metals are not very mobile in soils in that they have low solubility with water and tend to adsorb to the soil grains.

6.5 GROUNDWATER TRANSPORT

Based on groundwater elevation data, groundwater on the Site appears to flow northwest. As previously noted in Section 5.4.2 (Contaminants of Concern – Groundwater), there are no contaminants of concern in groundwater. No exceedances of TOGS 1.1.1 guidance values were noted that could not be attributed to natural conditions.

Although sodium, iron, magnesium, and manganese were detected above guidance values, all constituents can be naturally occurring. Natural sources of these metals include weathered rocks and minerals. These conditions were consistently noted throughout the Site.

In addition, the Site and surrounding area are serviced by municipal water. The Site Management Plan (SMP) will also prohibit the use of groundwater for drinking or process use. Therefore, significant potential exposure of local receptors to contaminants in the groundwater is minimal.

6.6 EXPOSURE PATHWAY SUMMARY

Based on the above assessment, the pathways through which COC could reach receptors at significant exposure concentrations are minimal. The more probable pathways of stormwater and fugitive dust will be mitigated using pollution prevention and dust suppression control measures during remedial and construction activities.

7.0 QUALITATIVE EXPOSURE ASSESSMENT

A Qualitative Human Health Exposure Assessment (QHHEA) was completed in general accordance with Appendix 3B of DER-10 to identify potential exposure pathways associated with the COC at the Site. The exposure pathway elements are summarized as follows:

Qualitative Exposure	Assessment Summary
Environmental Media & Exposure Route	Human Exposure Assessment
Direct contact with surface soils (and incidental ingestion)	Current: People should not come into contact with contaminated surface soils as they are primarily covered by asphalt and vegetative cover.
	Future: People may contact contaminated surface soils during ground-intrusive work.
Direct contact with subsurface soils (and incidental ingestion)	Current: There is no current concern for contact with subsurface soils as there is no ground-intrusive work being performed at the Site.
	Future: People may come into contact with subsurface soils during ground-intrusive work.
Ingestion of groundwater	Current: Groundwater at the Site does not



	appear impacted. Additionally, contaminated groundwater is not being used for drinking water in the surrounding area as the City of Dunkirk is served by a treated public water supply. There are no know private domestic water supply wells in the area of the Site.
	Future: The planned development will be served by treated municipal water (City of Dunkirk).
Direct contact with groundwater	Current: There is no current access to groundwater.
	Future: People may come into contact with groundwater during ground intrusive work. However, groundwater is not thought to be impacted.
Direct contact with surface water or sediment (and incidental ingestion)	Current: There are no water bodies on or within proximity of the Site, therefore direct contact with contaminated surface water or sediment is possible.
	Future: No water features capable of providing recreation use or supporting aquatic life are planned at the Site.
Inhalation of air (exposures related to SVI)	Current: SVI is not a current concern at the Site.
	Future: SVI concern is not foreseeable. Although not required as a component on the BCP, a subslab depressurization system (SSDS) is included in Site plans to mitigate radon.

7.1.1 Contaminant Sources

Metals and PAHs exceeding regulatory standards were consistently observed throughout Site soils. Based on previous investigations, the overburden is almost entirely composed of impacted fill, ranging in depth from 0 to 7 feet bgs.

An elevated concentration of Heptane was noted in one vapor point located within the existing building on Site. The vapor point is currently covered by existing hardscape (i.e. concrete slab). Based on the lack of VOC exceedances in soil and groundwater samples, no point contaminant sources have been identified.

7.1.2 Contaminant Release and Transport Mechanisms

The only release/transport of impacted soils to an exposed population would be through fugitive dust and rain that may result in soil erosion. However, as previously noted, the Site currently contains a large building surrounded by asphalt parking and minimal greenspace which limits any fugitive dust generation along with erodible soils.

7.1.3 Potential Exposure Points

Currently, direct contact exposure to impacted soil is low due to the predominant hardscape and low percentage of soil cover over the Site. Future contact may occur during soil excavation activities.



7.1.4 Routes of Exposure

The only viable current or future routes of exposure would be direct contact or inhalation/ingestion of impacted soils.

7.1.5 On-Site Receptors

The on-site receptor population would be customers and employees of the adjacent commercial plaza and surrounding businesses that may use the site for parking.

Future construction workers may encounter impacted soils during Site work. The entire boundary of the Site will be fenced off during construction and will not be accessible to outside personnel. Future residents should not encounter impacted soils as the entire Site will be covered by hardscape or two feet of clean fill in greenspace areas.

7.1.6 Off-Site Receptors

Although limited, off-site migration of contaminants could potentially impact off-site receptor populations. As noted above in Section 6.1: Fugitive Dust, the fugitive dust migration pathway is not presently a relevant pathway.

During future remedial activities, fugitive dust migration will be more relevant and not be relevant thereafter due to the proposed soil cover system and new development. Should contaminants in impacted surface soil become airborne, off-site receptors could be exposed to the inhalation of particulates. The off-site receptor population includes passersby's, and customers and employees of surrounding businesses.

7.2 ECOLOGICAL EXPOSURE RISKS

The Fish and Wildlife Resources Impact Analysis (FWRIA) Decision Key provided in Appendix 3C of DER-10 was completed during development of the RIWP and is included in **Appendix H**. No FWRIA is required based on the completed decision key process. This determination is based on the following:

- The Site is currently zoned C-2 General Commercial (Community Business) and is located in a mixed-use urban corridor
- The contamination at the Site has very low potential to migrate into or impact any offsite habitat of endangered, threatened, or special concern species or other fish and wildlife resources. There are no critical habitats onsite or nearby. The Full Environmental Assessment Form (FEAF) and Environmental Resource Mapper were consulted to make this determination.

8.0 REMEDIAL ALTERNATIVES ANALYSIS

8.1 REMEDIAL ACTION OBJECTIVES

The final remedial measures for the Site must satisfy Remedial Action Objectives (RAOs), which are site-specific statements that convey the goals for minimizing or eliminating substantial risks to human health and the environment. No RAOs were identified in relation to groundwater. The primary RAOs identified for the Site are the following:



Soil

Public Health Protection RAOs

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation exposure to contaminants volatilizing from soil.

Environmental Protection RAOs

 Prevent migration of contaminants in Site soil that would result in groundwater or surface water contamination.

Soil Vapor

Public Health Protection RAOs

 Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

8.2 ALTERNATIVES SELECTION FACTORS

In addition to achieving RAOs, NYSDEC's BCP requires an evaluation of remedial alternatives in accordance with 6 NYCRR Part 375-3 and DER-10. This alternative analysis evaluates the remedial options developed for the Site against the following selection factors:

- Overall Protection of Public Health and the Environment. This criterion evaluates a
 remedy's ability to achieve the public health and environmental RAOs through the
 assessment of existing and potential exposure pathways to be eliminated, reduced, or
 mitigated through removal, treatment, or ECs/ICs.
- Compliance with SCGs. This criterion addresses whether a remedy will meet applicable environmental regulations, standards, and guidance. The SCGs applicable to this site are listed in Section 1.2.
- Long-Term Effectiveness and Permanence. This criterion evaluates the long-term effectiveness and permanence of an alternative or remedy after implementation.
- Reduction of Toxicity, Mobility or Volume with Treatment. This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of Site contamination through treatment. Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the contamination at the Site.
- Short-Term Effectiveness. This criterion evaluates the potential short-term impacts to
 human health and the environment during remediation, including control measures of
 adverse conditions and their effectiveness (e.g., stormwater controls, dust controls,
 etc.). The length of time needed to achieve the RAOs and sustainability is also
 evaluated.
- Implementability. This criterion evaluates the technical and administrative feasibility
 of implementing the remedy including the difficulties associated with construction and
 monitoring the effectiveness of the remedy. The availability of labor, equipment, and
 material is evaluated in addition to operational approvals, logistics, permitting, etc.
- Cost. This criterion evaluates the overall cost of an alternative.
- **Community Acceptance**. This criterion evaluates the public's comments, concerns, and overall perception of the alternative.



8.3 LAND USE EVALUATION

The Site is located within an urbanized, mixed-use area of the City of Dunkirk, Chautauqua County, New York. Surrounding land uses include residential neighborhoods, public infrastructure, and light commercial operations. The proposed future use of the Site involves redevelopment into multi-family residential housing with associated parking areas and designated recreational or greenspace.

This land use category is appropriate considering the planned Site cover system, potential for on-site exposure, and compatibility with surrounding zoning and infrastructure. No ongoing industrial or agricultural activities are present, and no active groundwater use occurs on-site or nearby. The selected remedy must support this redevelopment scenario while addressing all SCGs related to soil, groundwater, and vapor intrusion.

8.4 SELECTION OF ALTERNATIVES FOR EVALUATION

In accordance with DER-10 and the applicable NYSDEC regulations under 6 NYCRR Part 375, remedial alternatives must be developed and evaluated based on the findings of the Remedial Investigation, intended site use, and the extent of contamination. The primary objective of this section is to identify reasonable and applicable cleanup options that align with the future use of the site and ensure the protection of public health and the environment. Two alternatives have been selected for detailed evaluation.

8.4.1 ALTERNATIVE 1: TRACK 4: RESTRICTED RESIDENTIAL REMEDIATION

A Track 4 cleanup generally involves removing all Site soils exceeding restricted residential criteria to specified depth and the creation of a cover system to meet Part 375 3.8 and 6.8(b) restricted residential use SCOs. Removal includes all soils above final grade requirements and an additional 2 feet of removal in non-hardscaped areas. The hardscaped areas (i.e., building footprint, parking lot and sidewalks) would be composed of approximately one foot of material which would function as a component of the cover system. All non-hardscaped/greenspace areas would be covered with 2 feet of clean imported fill meeting the provisions of NYSDEC DER-10 Subdivision 5.4(e) Appendix 5 (see **Figure 9**). Details of this alternative include the following:

- Concrete slabs and other hardscape are to be removed within the BCP boundary to accommodate new development. The top two feet of surface soils beneath the removed slabs/hardscape and in the remaining open areas that are not otherwise to be covered by components of the new development (e.g. buildings, pavement) shall not exceed Restricted Residential SCOs.
- All soils across the Site above final grade requirements and an additional 2 feet of
 material in future non-hardscape/greenspace areas will be removed and disposed of at
 an approved landfill. The estimated total volume of soil requiring removal is 6,300 tons.
- 3. Approximately 5,200 tons of clean fill will be imported to the Site to provide a 2-foot cover system in greenspace areas.
- 4. Confirmatory samples will be conducted after the excavation of on-site soils. A figure with proposed sampling locations will be included in the RAWP.
- 5. During RI sampling, specific borings were identified that did not appear to have Restricted Residential SCO exceedances. The general areas around these borings are delineated on Figure 9. Although unlikely due to the observed urban fill layer found across the site ranging from 0 to 7 feet bgs, soils excavated in this area may be suitable



- for reuse. Final determination will be made during excavation by the onsite QEP in accordance with 6 NYCRR Parts 360 and 375.
- An SVI investigation during the heating season will be completed after the proposed building is complete to assess potential soil vapor intrusion concerns Details of the SVI investigation will be provided in the RAWP.
- 7. Upon completion of remediation, provisions for managing the Site will be provided through an Environmental Easement (EE) which outlines Institutional Controls (ICs) and Engineering Controls (ECs).
- 8. Imposition of an IC in the form of an EE for the controlled party includes the following:
 - a. The remedial party or site owner must complete and submit a periodic certification of IC/EC in accordance with NYSDEC Part 375-1.8(h)(3).
 - b. Allows the use and development of the controlled property for restricted residential, commercial, and industrial uses as defined by Part 375-1.8(g)., although land use is subject to local zoning laws.
 - c. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH.
 - d. Requires compliance with the approved Site Management Plan.
- 9. An SMP is required that includes the following:
 - a. An IC/EC plan that identifies all use restrictions and ECs for the Site and details the steps and media specific requirements necessary to ensure the IC and/or ECs remain in place and effective. The ICs are as discussed above, and the only EC is a soil cover system.
 - b. An Excavation Plan which details provisions for management of future excavations in areas of remaining contamination.
 - c. Descriptions of the provisions of the EE including any land use or groundwater use restrictions.
 - d. Provisions for the management and inspection of the identified ECs.
 - e. Maintaining site access controls and NYSDEC notifications.
 - f. The steps necessary for the periodic reviews and certifications of the IC/ECs.

Overall Protection of Public Health and the Environment – Alternative 1 is protective of human health and the environment with the removal of two feet of impacted soil from open areas external to the building and backfilling with two feet of clean soil or hardscape. The clean soil and hardscape covered areas will be incorporated into the SMP as an EC for the Site and IC/ECs will be implemented to prevent more restrictive forms of future site use (e.g., unrestricted and residential) and restrict any use of the groundwater at the Site. Under ICs/ECs, the cover system will be inspected, monitored and maintained. The SMP Excavation Work Plan (EWP) will apply to any future disturbance of soils beneath the cover system. The SMP also requires the implementation of an approved HASP for all future work.

Compliance with SCGs – Alternative 1 is a Part 375 Track 4 remedy with some soils exceeding the restricted residential SCOs remaining below an approved cover system.

Long-Term Effectiveness and Permanence – The removal of the open area impacted fill soils to meet restricted residential SCOs and backfilling with clean fill and hardscape meets the RAOs for soil in this area. Although groundwater contamination is not a concern, there will be a restriction on the use of groundwater at the Site. The SMP requires periodic inspection and monitoring of the cover system for the Site to assure its integrity and the SMP EWP will apply to any future disturbance of the remaining impacted soils including the requirement to prepare an approved HASP for all work.



Reduction of Toxicity, Mobility, or Volume with Treatment – The remedial measure will either permanently or significantly reduce the mobility of contamination in the soils at the Site through the cover system. The volume of impacted soil will be reduced at the Site by excavation and offsite disposal of the top two feet of impacted soil across open areas and one foot in areas to be hardscaped.

The SMP will include an EWP to address any impacted soil/fill encountered during future development and/or maintenance activities and include a site-wide Inspection program to assure that the ICs/ECs placed on the Site have not been altered and remain effective. This alternative will not, however, reduce the toxicity of the soil contaminants left in place upon completion of the remedial measure. Therefore, this alternative partially satisfies this criterion.

Short-Term Effectiveness – Although minimal, potential short-term adverse impacts and human exposures may occur during construction (remediation and new development). A RAWP will be implemented prior to remediation which will require the contractor to prepare and implement a site-specific HASP to cover all workers. Periodic inspections of the cover system per the SMP requirements will prevent ingestion/direct contact with contaminated soil and prevent inhalation of contaminants in soil that may remain below the cover system. This alternative is sustainable through the EE and implementation of the SMP.

Implementability – There are no implementation issues related to the proposed remediation or related to the ICs/ECs placed on the Site under this alternative.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to fact sheets, public comment periods, and other planned citizen participation activities. Currently, no public comments have been received regarding the BCP activities at the Site.

Cost – The values used in estimating alternatives are order-of-magnitude estimates for comparing alternatives and are not meant to be a specific remedial criterion. The estimated cost for Alternative 1 – Track 4 Restricted Residential Use Alternative is approximately \$1.3 million. The associated cost summary is provided in **Appendix I**.

Green Remediation – This alternative will follow a shorter remedial timeline as there will be less excavation and disposal of impacted materials. A shorter remedial timeline implies less total energy use and less emissions. Less excavation and disposal implies reduced waste/landfilling, use of heavy equipment, truck travel, localized noise, vibration and wear and tear on roads. Some additional efforts will be required to import clean fill to compose the required cover system.

8.4.2 ALTERNATIVE 2: TRACK 1: UNRESTRICTED USE REMEDIATION

A Track 1 cleanup involves removal of all Site soils exceeding unrestricted criteria to meet Part 375 3.8 and 6.8(a) unrestricted use SCOs. Based on the RI, all Site soils exceed unrestricted criteria and therefore excavation to bedrock across the entire Site would be required. Details of this alternative include the following:

1. All soils across the entire Site will be removed to approximately 8 feet bgs. The removal of impacted soil will include the removal of all existing building slabs and hardscape areas and backfill all areas with clean soil to meet new development grades. The



- approximate volume of soil amounts to 17,000 tons.
- 2. Clean fill meeting the provisions of NYSDEC DER-10 Subdivision 5.4(e) Appendix 5 will be imported to the Site to meet final grade requirements. The approximate volume of soil/stone amounts to 15,500 tons.

Overall Protection of Public Health and the Environment – This alternative would achieve the corresponding Part 375 SCOs, which are designed to be protective of human health under any reuse scenario.

Compliance with SCGs – This alternative would comply with SCOs, as all non-compliant material would be removed from the Site.

Long-Term Effectiveness and Permanence – This alternative would achieve removal of all contaminant sources and residual impacted soil. No soil exceeding the unrestricted SCOs would remain on the Site. As such, this alternative would provide long-term effectiveness and permanence. Post-remedial monitoring and controls would not be required.

Reduction of Toxicity, Mobility, or Volume with Treatment – This alternative would permanently reduce the toxicity and mobility of Site contamination through the removal of impacted Site soils. Although this is not considered a treatment technology and the volume of contamination would remain the same, removal is very effective in eliminating toxicity and mobility.

Short-Term Effectiveness – The short-term effectiveness of this alternative to the community, workers, and environment during implementation of the unrestricted use alternative would be marginal. The exposure time to community, workers, and the environment from possible fugitive dust or other migration pathways would increase during the excavation, packaging, and offsite disposal of significant quantities of soil and debris. However, within approximately 6 months, the site would be remediated of all soil contamination.

Implementability – Technical implementability of the unrestricted use alternative is high. Demolition, remediation, excavation, and removal activities are associated with standard construction techniques, but impacted soil removal may require excavation below the groundwater table.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to fact sheets, public comment periods, and other planned citizen participation activities. Currently, no public comments have been received regarding the Site.

Cost – The cost of implementing a Track 1 Unrestricted Use alternative is estimated at approximately \$3.6 million. (Refer to **Appendix I**).

Green Remediation –This alternative will follow a longer remedial timeline as there will be more excavation and disposal of impacted materials. A longer remedial timeline implies more total energy use and more emissions. More excavation and disposal implies additional waste/landfilling, use of heavy equipment, truck travel, localized noise, vibration and wear and tear on roads. This alternative will address the source of contamination more aggressively (i.e., complete removal of impacted materials), which will reduce long-term operation and maintenance of treatment or containment systems (i.e., a cover system).



8.5 RECOMMENDED REMEDIAL ALTERNATIVE

The evaluation of remedial alternatives for the Site considered key selection factors outlined in DER-10, including protection of public health and the environment, compliance with Standards, Criteria, and Guidance (SCGs), long-term effectiveness, short-term impacts, implement ability. and cost. Both Track 1 (Unrestricted Use) and Track 4 (Restricted Residential Use) are protective of human health and the environment; however, Track 1 requires full attainment of the most stringent SCOs and complete contaminant removal, which is not feasible due to widespread exceedances of metals and SVOCs in subsurface soils and the substantial cost and disruption associated with deep excavation and disposal. While Track 1 would eliminate the need for long-term management, Track 4 remains fully protective by employing a compliant site cover system, institutional controls, and a Site Management Plan (SMP), thereby effectively isolating contaminants and mitigating exposure risks. Track 4 also aligns with the intended residential redevelopment and is more readily implementable, with lower short-term construction risks and fewer logistical challenges. Additionally, groundwater exceedances of naturally occurring elements such as sodium, iron, magnesium and manganese do not indicate off-site migration of contaminants of concern, further supporting a Track 4 approach. Therefore, while both alternatives satisfy regulatory requirements, Track 4 is the preferred remedy due to its balance of protectiveness, practicality, cost-effectiveness, and compatibility with proposed site use.

9.0 **CONCLUSIONS AND RECOMMENDATIONS**

The Remedial Investigation was completed in accordance with the July 2025 NYSDECapproved RI Work Plan, with minor deviations documented and communicated appropriately. Analytical data confirm the presence of contamination across the Site that exceeds applicable SCGs, including metals and PAHs. Groundwater monitoring identified elevated concentrations of naturally occurring constituents such as sodium, iron, magnesium and manganese. An elevated concentration of Heptane was noted in one vapor point located within the existing building on Site. The vapor point is currently covered by existing hardscape (i.e. concrete slab) and will continue to be covered by hardscape after redevelopment. Although not required as a component on the BCP, an SSDS is included in Site plans with the primary purpose of mitigating radon which will also mitigate potential soil vapor intrusion.

Given the proposed redevelopment of the Site for multi-family residential use with associated green space and parking, and considering the nature and extent of contamination, full unrestricted cleanup under Track 1 is not practical. Instead, Track 4 - Restricted Residential Use with a site cover system, institutional controls, and long-term management - is recommended. This remedial approach meets the objectives of protecting human health and the environment, complies with SCGs, and supports the future use of the property while minimizing unnecessary disturbance and cost.



Tables



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

																	ADVEDES D	775 C-11 Cl	NI	
		T	1 1		1	Sample Id	entification, S	Sample Depth	and Sample	Collection Da	te	1	1	1			NYSDEC Part 3	375 Soil Cleanup C	Objectives (SCOs)	
Analyte	RI-BH-1	RI-BH-1	RI-BH-2	RI-BH-2	RI-BH-3	RI-BH-4	RI-BH-5	RI-BH-6	RI-BH-6	RI-BH-7	RI-BH-7	RI-BH-8	RI-BH-8	RI-BH-9	RI-BH-9			Restricted		
	0-3'	6-9'	1-4'	5-8'	1-4'	1-4'	2-4'	0-3'	6-9'	0-3'	6-10'	0-3'	4-6'	1-3'	6-10'	Unrestricted	Residential	Restricted Residential	Commercial	Industrial
			3/2025			/2025	8/11/2025		5/30	/2025			2025		/2025					
Aluminum	3300	7440	5150	20400	2400	19700	4070	METALS (ppm) 18200	6660	17600	2670	11900	477000	0000	NS	NS	NS	NS	NS
Antimony	1.2	1.3	4.1	1.2	3100 0.79	1.5	4070 ND	2.0	0.86	39.4	1.5	2670	0.78	17000 3.3	9660 2.1	NS NS	NS NS	NS NS	NS NS	NS NS
Arsenic	9.5	9.2	16.2	6.9	6.0	15.5	2.0	8.9	7.0	93.8	7.7	9.2	6.0	16.5	17.7	13	16	16	16	16
Barium	25.9 0.62	95.7 0.50	109	117	17.4 0.18	216	15.2 0.38	162	178	121	145 0.94	45.5	105 0.59	97.5	270 0.80	350	350	400	400 590	10000
Beryllium Cadmium	0.62	0.50	0.87	0.23	0.18	0.85	0.38	0.37	0.85	0.85 1.0	0.40	0.21	0.59	0.69	0.80	7.2 2.5	14 2.5	72 4.3	9.3	2700 60
Calcium	1520	6300	5200	16700	5750	3330	1460	7160	1330	2370	5400	3080	11800	57700	15300	NS	NS	NS	NS	NS
Chromium	8.2	10.6	9.2	28.5	4.3	24.5	3.9	15.7	22.3	19.5	23.4	16.2	15.6	30.5	16.9	1	22	110	400	800
Cobalt Copper	3.3 13.0	6.8 50.0	8.0	13.7 25.0	4.4 12.1	13.6	4.0 26.4	4.7 26.1	13.4	23.2	19.8 27.5	6.0 265	8.7 25.2	5.4 23.8	7.8 95.9	NS 50	NS 270	NS 270	NS 270	NS 10000
Iron	14500	19800	31300	29800	8400	35700	5930	37400	26800	107000	32600	53400	20300	120000	24900	NS NS	NS NS	NS NS	NS NS	NS
Lead	40.3	105	123	14.3	17.6	108	4.4	157	18.8	658	29.0	58.9	60.3	31.6	711	63	400	400	1000	3900
Magnesium Manganese	291 180	2300 249	771 188	8470 373	2110 157	3760 716	520 202	1540 282	3630 271	1020 475	4570 414	312 643	3120 244	1110	2240 307	NS 1600	NS 2000	NS 2000	NS 10000	NS 10000
Nickel	7.7	17.0	17.5	37.9	8.6	24.6	3.3	14.7	23.9	35.1	33.9	15.5	20.5	4130 13.8	16.4	30	140	310	310	10000
Potassium	617	1440	656	4440	771	3010	514	821	2790	860	3100	337	2360	1880	2040	NS	NS	NS	NS	NS
Selenium	ND ND	ND ND	0.99	ND ND	ND ND	ND ND	ND ND	ND ND	1.3	1.9	1.2	ND ND	ND ND	1.8	1.8	3.9	36	180	1500	6800
Silver Sodium	ND ND	ND 110	ND 209	ND 166	ND 76.7	ND 97.5	ND 91.7	ND 130	ND ND	0.33 119	ND 94.7	ND ND	ND 86.1	0.70 435	0.32 321	2 NS	36 NS	180 NS	1500 NS	6800 NS
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS NS	NS	NS	NS NS	NS
Vanadium	11.9	15.3	18.7	33.9	7.5	36.5	7.9	14.9	33.4	28.8	32.6	22.5	23.1	55.5	19.1	NS 400	NS 2200	NS 10000	NS 40000	NS 10000
Zinc Cvanide, Total	34.2 ND	109 ND	48.8 ND	68.5 ND	45.9 ND	120 ND	19.4 ND	126 ND	95.6 ND	258 ND	81.2 ND	71.2 0.58	71.3 ND	33.0 ND	218 ND	109 27	2200 27	10000 27	10000 27	10000 10000
Mercury	0.028	0.77	0.36	0.014	0.37	1.4	ND ND	0.020	0.049	0.24	0.099	0.095	0.31	0.16	0.24	0.18	0.81	0.81	2.8	5.7
							ORGA	NOCHLORINE F	ESTICIDES (pp	m)									_	
4,4'-DDD 4.4':-DDE	ND ND	0.0013	ND ND	ND ND	ND ND	ND 0.006	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.0033	2.6 1.8	13 8.9	92 62	180
4,4'-DDT	0.0016	ND ND	ND ND	0.0012	0.0017	0.006	ND ND	0.0018	0.0019	0.0075	0.0018	0.0071	0.002	0.0016	ND ND	0.0033	1.8	7.9	47	120 94
alpha-BHC	ND	ND	ND	ND	ND	0.0012	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.097	0.48	3.4	6.8
beta-BHC	ND ND	ND	ND	ND ND	ND	0.00092	ND ND	ND ND	ND	ND ND	ND	ND	ND ND	ND ND	ND ND	0.036	0.072	0.36	3 500	14
delta-BHC Endosulfan II	ND ND	ND ND	ND ND	ND ND	ND ND	0.0013	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	2.4	100 4.8	100 24	200	1000 920
Endrin	0.00094	0.0023	ND	ND	0.0014	0.0038	ND	ND	ND	0.0059	ND	ND	0.0013	0.0012	ND	0.014	2.2	11	89	410
Endrin aldehyde	ND	ND	ND	ND	ND	0.0017	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
Endrin ketone Methoxychlor	ND ND	ND 0.001	ND 0.01	ND ND	ND 0.00087	0.013	ND ND	ND 0.00098	ND ND	ND ND	ND 0.0012	ND ND	ND 0.0011	ND ND	ND ND	NS NS	NS NS	NS NS	NS NS	NS NS
wedioxychioi	ND	0.001	0.01	ND	0.00087	0.0036	PER- & POLYF	LUOROALKYL S		FAS) (ppt)	0.0012	ND	0.0011	ND	ND	NS	NS	NS	NS	INS
Perfluorodecanoic acid (PFDA)	ND	ND	ND	ND	ND	ND	ND	0.060	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
Perfluorononanoic acid (PFNA) Perfluorooctanesulfonic acid (PFOS)	0.079 1.0	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 0.76	ND ND	ND ND	ND ND	ND 0.75	ND ND	ND 0.16	ND ND	NS 0.88	NS 8.8	NS 44	NS 440	NS 440
Perfluorooctanoic acid (PFOA)	0.13	ND ND	ND ND	ND	ND ND	ND	ND ND	0.76	ND	ND	ND ND	0.73	ND ND	ND	ND	0.66	6.6	33	500	600
							POLYCHLO			(ppm)										
Total PCBs	ND	ND	ND	ND	ND	ND	ND SEMIVOLITALE	ND ORGANIC COM	ND MPOUNDS (SVO	ND	ND	ND	ND	ND	ND	0.1	1	1	1	25
2-Methylnaphthalene	0.13	0.14	0.48	ND	0.051	ND	ND ND	0.048	ND ND	OCS) (ppm) 0.38	ND	0.53	0.13	0.089	ND	NS	NS	NS	NS	NS
Acenaphthene	ND	0.064	0.47	ND	ND	0.071	ND	ND	ND	0.3	ND	ND ND	ND	ND	ND	20	100	100	500	1000
Acenaphthylene	ND	ND	ND	ND	ND	0.062	ND	ND	ND	0.039	ND	ND	ND	ND	ND	100	100	100	500	1000
Anthracene Benzo[a]anthracene	ND ND	0.22	0.6 2.8	ND ND	0.051	0.22	ND ND	ND 0.083	ND ND	0.72	ND ND	0.39	0.067	ND ND	ND ND	100	100	100	500 5.6	1000 11
Benzo[a]pyrene	ND	0.52	3.9	ND	0.11	0.44	ND	0.065	ND	1.5	ND ND	ND	0.18	ND	ND	1	1	1	1	1.1
Benzo[b]fluoranthene	0.051	0.66	5.3	ND	0.13	0.52	ND	0.093	ND	1.9	ND	0.89	0.22	ND	0.032	1	1	1	5.6	11
Benzo[g,h,i]perylene Benzo[k]fluoranthene	0.038 ND	0.36 0.27	4.3 2.4	ND ND	0.068	0.19	ND ND	0.057 0.078	ND ND	1.1 0.92	ND ND	0.59 0.65	0.13 0.083	ND ND	ND ND	100 0.8	100	100 3.9	500 56	1000 110
Bis(2-ethylhexyl) phthalate	ND ND	ND	ND	ND	ND	ND	ND ND	0.078 ND	ND ND	0.92 ND	0.098	ND	0.083 ND	ND ND	ND ND	NS NS	NS NS	NS NS	NS NS	NS NS
Carbazole	ND	0.11	0.43	ND	ND	0.048	ND	ND	ND	0.35	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
Chrysene Dibenz(a,h)anthracene	ND ND	0.55	3.7	ND ND	0.15 ND	0.52	ND ND	0.088 ND	ND ND	1.9 0.32	ND ND	0.6 ND	0.25	ND ND	ND ND	1 0.33	1 0 33	3.9	56 0.56	110
Dibenz(a,h)anthracene Dibenzofuran	ND ND	0.11	1.2 ND	ND ND	ND ND	0.085	ND ND	ND ND	ND ND	0.32	ND ND	ND ND	0.045	ND ND	ND ND	0.33 7	0.33	0.33 59	0.56 350	1.1
Fluoranthene	0.081	1.1	4.3	ND	0.26	0.96	ND	0.14	ND	4.4	0.051	1.5	0.36	0.039	0.065	100	100	100	500	1000
Fluorene	ND ND	0.063	0.26	ND	ND 0.050	0.069	ND	ND 0.057	ND	0.28	ND ND	ND 0.54	ND 0.002	ND ND	ND	30	100	100	500	1000
Indeno[1,2,3-cd]pyrene Naphthalene	ND 0.066	0.3 ND	3.2 0.75	ND ND	0.058 ND	0.2 ND	ND ND	0.057	ND ND	0.97 0.25	ND ND	0.54 ND	0.093	ND ND	ND ND	0.5	0.5 100	0.5 100	5.6 500	11 1000
Phenanthrene	0.12	0.88	2.9	ND	0.29	0.78	ND	0.11	ND	3.4	0.048	1.4	0.33	ND	ND	100	100	100	500	1000
Pyrene	0.081	0.9	3.8	ND	0.25	0.9	ND	0.14	ND	3.5	0.052	1.5	0.32	0.034	0.062	100	100	100	500	1000
Total TICs	38.03	7.78	38.42	45.95	39.14	21	13.3 VOLITAL	44.79 F ORGANIC CO	25.2 MPOUNDS (Vo	42.9	41.2	8.6	19.12	43.94	45.04	NS	NS	NS	NS	NS
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	0.0085	ND ND	0.012	ND	0.0045	0.0056	0.014	0.12	100	100	500	1000
Acetone	0.0055	ND	0.0066	ND	0.0081	0.0079	0.0066	ND	0.049	0.012	0.059	0.011	0.029	ND	0.068	0.05	100	100	500	1000
Benzene Chloroform	ND ND	ND ND	0.00043 ND	ND ND	ND ND	ND ND	ND ND	0.0009	ND ND	ND ND	ND ND	ND ND	ND ND	0.00055 ND	ND 0.00047	0.06	2.9	4.8	44 350	89
Chloroform Ethylbenzene	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.00044 0.0012	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.00047 ND	U.37	10 30	49 41	350 390	700 780
Methylcyclohexane	ND	ND ND	ND ND	ND	ND ND	0.0014	ND	ND	ND ND	ND ND	0.0015	ND ND	ND	ND	ND ND	NS NS	NS	NS NS	NS	NS
Methylene Chloride	ND	0.43	ND	ND	0.025	0.049	ND	0.038	ND	0.013	0.0044	ND	ND	0.0054	0.011	0.05	51	100	500	1000
Styrene Totach largeth and	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NS 1.3	NS E.E.	NS 10	NS 150	NS 200
Tetrachloroethene Toluene	0.00061	ND ND	0.00049	ND ND	0.00054	ND ND	ND ND	0.0021	ND ND	ND ND	ND ND	ND ND	ND ND	0.00055	ND ND	1.3 0.7	5.5 100	19 100	150 500	300 1000
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.024	0.034	ND	0.026	ND	0.0073	0.0007	ND	ND	ND	0.0026	0.19	100	100	500	1000
Xylenes, Total	ND O	ND 454.40	ND 0.00	ND 0.00	ND 0.00	ND 0.00	ND ND	0.00098	ND 0.00	ND 0.00	ND 0.04	ND 0.05	ND 0.00	ND 0.00	ND 0.00	0.26	100	100	500	1000
Total TICs	0	154.10	0.00	0.00	0.00	0.00	ND	0.12	0.00	0.00	0.01	0.05	0.00	0.60	0.00	NS	NS	NS	NS	NS

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

				Sa	ımple Identifica	ation, Sample D	epth and Samp	le Collection Da	ate						NYSDEC Part 37	75 Soil Cleanup C	bjectives (SCOs)	
Analyte	RI-BH-10	RI-BH-10	RI-BH-11	RI-BH-11	RI-BH-12	RI-BH-12	RI-BH-13	RI-BH-13	RI-BH-14	RI-BH-14	RI-BH-15	RI-BH-15	RI-BH-16	Unrestricted	Residential	Restricted Residential	Commercial	Industrial
	0-3'	5-9'	0-3'	4-7'	0-3'	5-7'	0-3'	5-8'	1-3'	4-7'	0-3.5'	4-7'	1-3'			Residential	Commercial	mastria
						5/30	/2025						8/11/2025					
Aluminum	12000	15500	7240	11800	8120	12500	METALS (ppm) 9850	11000	11100	19900	7780	11900	20100	NS	NS	NS	NS	NS
Antimony	1.0	0.93	1.4	1.1	2.2	1.0	1.7	1.6	1.1	1.9	1.9	1.4	ND	NS	NS	NS	NS	NS
Arsenic	10.3	6.2	7.6	10.2	19.1	5.4	7.2	12.7	7.5	10	13.7	12.7	8.7	13	16	16	16	16
Barium Beryllium	74.3 0.56	170 0.71	76.2 0.98	70.3 0.60	367 0.65	108 0.78	90.1 0.52	66.0 0.68	71.6 0.49	157 0.98	366 0.70	92.2 0.60	108 0.65	350 7.2	350 14	400 72	400 590	10000 2700
Cadmium	0.18	0.71	0.31	0.44	0.31	0.15	0.23	0.31	0.45	0.25	2.2	0.45	0.3	2.5	2.5	4.3	9.3	60
Calcium	2280	122000	4510	42000	7840	1940	14200	12200	2570	24400	16000	37300	2890	NS	NS	NS	NS	NS
Chromium Cobalt	14.2 7.9	21.1 9.7	9.7 7.6	17.0 10.4	14.9 8.0	16.9 10.4	12.9 7.8	15.6 11.1	12.2 10.6	27.3 16.4	133 8.2	17.8 11.0	22.4 9.9	1 NS	22 NS	110 NS	400 NS	800 NS
Copper	27.7	20.2	7.0	32.9	57.7	27.1	57.3	47.0	71.2	24.9	119	37.1	9.9	50	270	270	270	10000
Iron	20700	20600	23700	25200	31500	22000	19800	28000	22100	35000	24300	25500	33300	NS	NS	NS	NS	NS
Lead	28.9 2310	14.9 7960	73.1 975	17.0	674	20.9 3530	110 3170	30.3	86.8	15.8	707 2230	18.9 7590	24.9 3130	63 NS	400	400	1000	3900
Magnesium Manganese	195	7960 254	9/5 231	7550 305	1210 446	200	3170 297	5230 234	2860 430	7370 356	303	7590 311	3130 1110	1600	NS 2000	NS 2000	NS 10000	NS 10000
Nickel	19.0	27.4	14.3	30.0	16.4	26.9	17.4	31.6	21.1	43.3	95.4	30.2	15.5	30	140	310	310	10000
Potassium	1790	3960	827	2410	1230	3020	1800	2590	1530	3530	1120	2410	2820	NS	NS	NS	NS	NS
Selenium Silver	1.7 ND	1.7 ND	1.6 ND	1.2 ND	1.1 ND	1.3 ND	1.0 ND	1.3 ND	ND ND	ND ND	1.5 0.28	ND ND	2.6 0.29	3.9	36 36	180 180	1500 1500	6800 6800
Sodium	76.0	150	96.2	152	230	90.9	101	88.2	300	178	153	153	127	NS NS	NS NS	NS NS	NS NS	NS
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
Vanadium Zinc	21.9 65.7	27.8 56.9	16.4 98.3	23.2 77.1	26.8 249	21.5 67.7	22.2 105	21.9 88.3	18.0 140	33.6 65.7	23.9 542	24.7 80.0	42.1 63.3	NS 109	NS 2200	NS 10000	NS 10000	NS 10000
Cyanide, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	27	27	27	10000
Mercury	0.40	0.019	0.20	0.017	0.43	0.021	0.69	0.018	0.55	0.018	0.43	0.017	0.053	0.18	0.81	0.81	2.8	5.7
		I					ORINE PESTICID			T		· · · -	1					
4,4'-DDD 4,4'-DDE	0.0015 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.00081 ND	ND ND	ND ND	ND ND	ND 0.0029	0.0033	2.6 1.8	13 8.9	92 62	180 120
4,4'-DDT	0.0017	0.0031	0.0031	ND	0.0031	ND	0.0032	ND	ND	ND	0.034	ND	0.0023	0.0033	1.7	7.9	47	94
delta-BHC	0.00099	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	100	100	500	1000
Endosulfan II Endosulfan sulfate	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.00086 ND	ND ND	ND 0.0014	ND 0.0012	ND ND	ND ND	ND ND	2.4	4.8	24 24	200	920 920
Endrin	0.0016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.014	2.2	11	89	410
Endrin ketone	ND	ND	ND	ND	ND	ND	0.0027	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
Methoxychlor	ND	ND	0.0032	ND	ND PER	ND - & POLYFLUORO	0.0061 OALKYL SUBSTAN	0.0039 CES (PEAS) (ppt)	ND	ND	ND	ND	0.0016	NS	NS	NS	NS	NS
Perfluorobutanoic acid (PFBA)	ND	ND	ND	ND	ND	ND	0.30	0.32	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS
Perfluorooctanesulfonic acid (PFOS)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.88	8.8	44	440	440
Perfluorooctanoic acid (PFOA)	ND	ND	ND	ND	ND	ND ND	ND TED BIPHENYLS (ND PCBS) (ppm)	ND	ND	ND	ND	ND	0.66	6.6	33	500	600
Total PCBs	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	0.1	1	1	1	25
						IVOLITALE ORGA)									
2-Methylnaphthalene	0.038	ND ND	0.19 ND	ND	ND 0.000	ND	0.33	ND	ND	ND	0.52	ND	ND ND	NS 20	NS 100	NS	NS 500	NS 4000
Acenaphthene Anthracene	ND 0.048	ND ND	0.084	ND ND	0.099	ND ND	ND 0.038	ND ND	ND ND	ND ND	ND 0.96	ND ND	ND 0.054	20 100	100 100	100 100	500 500	1000 1000
Benzo[a]anthracene	0.27	ND	0.26	ND	0.44	ND	0.16	ND	ND	ND	2.1	ND	0.12	1	1	1	5.6	11
Benzo[a]pyrene	0.18	ND ND	0.21	ND ND	0.35	ND ND	0.12	ND	ND 0.034	ND ND	1.9	ND ND	0.11	1	1	1	1	1.1
Benzo[b]fluoranthene Benzo[g,h,i]perylene	0.18 0.11	ND ND	0.35 0.17	ND ND	0.47	ND ND	0.22 0.085	ND ND	0.034 ND	ND ND	2.4 1.3	ND ND	0.13 0.063	1 100	100	100	5.6 500	11 1000
Benzo[k]fluoranthene	0.15	ND	0.14	ND	0.19	ND	0.068	ND	ND	ND	1.4	ND	0.084	0.8	1	3.9	56	110
Biphenyl	ND ND	ND ND	ND ND	ND ND	ND 0.054	ND ND	0.039	ND	ND ND	ND ND	ND ND	ND ND	ND ND	NS NC	NS NC	NS NC	NS NC	NS NC
Carbazole Chrysene	ND 0.21	ND ND	ND 0.34	ND ND	0.054 0.46	ND ND	ND 0.21	ND ND	ND ND	ND ND	ND 1.9	ND ND	ND 0.14	NS 1	NS 1	NS 3.9	NS 56	NS 110
Dibenz(a,h)anthracene	ND	ND	0.048	ND	0.056	ND	ND	ND	ND	ND	0.48	ND	ND	0.33	0.33	0.33	0.56	1.1
Dibenzofuran	ND 0.20	ND ND	0.091	ND	0.051	ND	0.1	ND	ND 0.044	ND	ND 5.7	ND	ND 0.25	7	14	59	350	1000
Fluoranthene	0.28 ND	ND ND	0.64 ND	ND ND	0.082	ND ND	0.28 ND	ND ND	0.041 ND	ND ND	5.7 ND	ND ND	0.26 ND	100 30	100 100	100 100	500 500	1000 1000
Indeno[1,2,3-cd]pyrene	0.12	ND ND	0.12	ND	0.082	ND	0.068	ND	ND ND	ND ND	1.2	ND ND	0.047	0.5	0.5	0.5	5.6	11
Naphthalene	ND	ND	0.13	ND	0.033	ND	0.21	ND	ND	ND	0.38	ND	ND	12	100	100	500	1000
Phenanthrene Pyrene	ND 0.24	ND ND	0.59 0.55	ND ND	0.85	ND ND	0.39	ND ND	ND 0.043	ND ND	4.5 4.1	ND ND	0.25 0.25	100 100	100 100	100 100	500 500	1000 1000
Total TICs	25.66	28.61	16.79	27.8	16.69	58.08	28.49	31.99	46.01	16.73	0	16.3	109.6	NS NS	NS NS	NS NS	NS NS	NS NS
		,	Ť			VOLITALE ORG		IDS (VOCS)	i	,	Ť					1		
2-Butanone (MEK)	ND ND	ND 0.0053	0.0097	ND ND	ND ND	ND 0.0000	ND ND	ND 0.0098	ND 0.036	ND ND	ND ND	ND ND	ND ND	0.12	100	100 100	500 500	1000
Acetone Chloroform	ND ND	0.0053 ND	0.085 ND	ND ND	ND ND	0.0089 ND	ND ND	0.0098	0.026 0.00038	ND ND	0.00043	ND ND	ND ND	0.05 0.37	100 10	100 49	350	1000 700
Methylcyclohexane	ND	ND	ND	ND	NĐ	ND	ND	ND	ND	0.0014	ND	ND	ND	NS	NS	NS	NS	NS
Methylene Chloride	0.023	0.031	0.007	0.019	ND 0.0044	ND	0.0062	0.032	0.023	0.01	0.022	0.072	ND ND	0.05	51	100	500	1000
trans-1,2-Dichloroethene Total TICs	0.016	0.021	0.0021	0.011	0.0011	0.0011	0.0033	0.018	0.0097	0.0078	0.013	0.05	ND 0	0.19 NS	100 NS	100 NS	500 NS	1000 NS
TOTAL TIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	U	143	143	19.3	143	143

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

		Sa	imple Identification,	Sample Depth and	Sample Collection D	ate			NYSDEC Part 37	75 Soil Cleanup O	biectives (SCOs)	
	D1 2 2 1 4	RI-MW-2		RI-MW-3	RI-MW-3 DUP	RI-MW-4	D. 400.5					
Analyte	RI-MW-1		RI-MW-2 DUP				RI-MW-5	Unrestricted	Residential	Restricted Residential	Commercial	Industrial
	8-11'	9-12'	9-12'	4-8' 5/30/2025	4-8'	4-8'	4-8'			Residential		
				METALS (ppm)								
Aluminum	11400	13500	14800	15500	20800	10400	10400	NS	NS	NS	NS	NS
Antimony	1.3	1.4	0.81	1.1	1.4	ND	1.3	NS	NS	NS	NS	NS
Arsenic Barium	7.4 127	10.6 192	8.2 191	8.3 669	4.3 303	8.9 97.8	13.4 73.5	13 350	16 350	16 400	16 400	16 10000
Beryllium	0.73	0.80	0.71	0.75	1.0	0.51	0.55	7.2	14	72	590	2700
Cadmium	0.14	0.33	0.38	0.30	0.32	0.38	0.41	2.5	2.5	4.3	9.3	60
Calcium	1250	5470	12400	36300	2230	29400	17200	NS	NS	NS	NS	NS
Chromium Cobalt	16.6 11.8	23.0 12.8	20.1 12.4	21.7 12.8	28.5 16.7	15.4 11.2	15.3 12.5	NS NS	NS NS	NS NS	NS NS	NS NS
Copper	41.0	81.4	34.7	32.4	22.1	35.8	43.3	50	270	270	270	10000
Iron	19800	26800	25100	26500	29500	23200	28100	NS	NS	NS	NS	NS
Lead	26.2	70.8	50.1	15.5	13.3	15.6	25.4	63	400	400	1000	3900
Magnesium Manganese	3960 132	3590 520	5240 286	8880 405	6110 280	8000 286	6420 309	NS 1600	NS 2000	NS 2000	NS 10000	NS 10000
Nickel	33.4	28.8	30.4	34.0	45.5	29.8	36.5	30	140	310	310	10000
Potassium	2510	2610	2890	3020	3020	2120	2080	NS	NS	NS	NS	NS
Selenium	2.8	ND	ND	ND	1.5	ND	1.2	3.9	36	180	1500	6800
Silver	ND 72.5	ND 90.1	ND 113	ND 175	ND 121	ND 124	ND 91.5	2 NS	36 NS	180 NS	1500 NS	6800 NS
Sodium Thallium	72.5 ND	90.1 ND	ND	ND	ND	ND	91.5 ND	NS NS	NS NS	NS NS	NS NS	NS NS
Vanadium	18.5	28.0	26.7	29.0	33.9	20.4	19.6	NS	NS	NS	NS	NS
Zinc	75.5	124	127	68.2	73.0	86.1	115	109	2200	10000	10000	10000
Cyanide, Total Mercury	ND 0.015	ND 1.6	ND 0.49	ND 0.012	ND 0.028	ND 0.023	ND 0.018	27 0.18	27 0.81	27 0.81	27 2.8	10000 5.7
ivier cui y	0.015	1.0	ORGANO	OCHLORINE PESTICID	0.028 ES (ppm)	0.023	0.018	0.18	0.81	0.81	2.8	3.7
4,4'-DDT	ND	0.002	0.0019	ND	ND	ND	ND	0.0033	1.7	7.9	47	94
delta-BHC	ND	ND	0.0011	ND	ND	ND	ND	0.04	100	100	500	1000
Endosulfan sulfate	ND ND	ND 0.0017	ND 0.0014	ND ND	0.0012 ND	ND ND	ND ND	2.4	4.8	24	200	920
Endrin Methoxychlor	ND ND	0.0017 ND	0.0014	ND ND	ND ND	ND ND	ND ND	0.014 NS	2.2 NS	11 NS	89 NS	410 NS
INIETHOXYCHIOI	NB	ND		OROALKYL SUBSTAN		NB	ND	143	143	N3	N3	INS
Perfluorooctanesulfonic acid (PFOS)	ND	ND						_				440
			ND	ND	ND	ND	ND	0.88	8.8	44	440	
Perfluorooctanoic acid (PFOA)	ND	ND ND	ND	ND	ND	ND ND	ND ND	0.88 0.66	8.8 6.6	44 33	440 500	600
	ND	ND	ND POLYCHLOR	ND INATED BIPHENYLS (ND PCBS) (ppm)	ND	ND	0.66	6.6	33	500	600
Perfluorooctanoic acid (PFOA) Total PCBs			ND POLYCHLOR ND	ND	ND PCBS) (ppm) ND							
	ND	ND ND 0.57	ND POLYCHLOR ND	ND INATED BIPHENYLS (ND	ND PCBS) (ppm) ND	ND	ND	0.66	6.6	33	500	600
Total PCBs 2-Methylnaphthalene 4-Methylphenol	ND ND ND ND	ND ND 0.57 0.046	ND POLYCHLOR ND SEMIVOLITALE C	ND INATED BIPHENYLS (ND RGANIC COMPOUNI ND ND	ND PCBS) (ppm) ND OS (SVOCS) (ppm) ND ND	ND ND ND ND	ND ND ND ND	0.66 0.1 NS 0.33	6.6 1 NS 34	33 1 NS 100	500 1 NS 500	25 NS 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthene	ND ND ND ND ND ND ND	ND ND 0.57 0.046 0.53	ND POLYCHLOR ND SEMIVOLITALE C ND ND ND ND	ND INATED BIPHENYLS (ND RGANIC COMPOUNI ND ND ND ND ND	ND PCBS) (ppm) ND OS (SVOCS) (ppm) ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND	0.66 0.1 NS 0.33 20	6.6 1 NS 34 100	33 1 NS 100 100	500 1 NS 500 500	000 25 NS 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol	ND ND ND ND ND ND ND ND ND	ND ND 0.57 0.046	ND POLYCHLOR ND SEMIVOLITALE C ND ND ND ND ND	ND INATED BIPHENYLS (ND RGANIC COMPOUNI ND ND	ND PCBS) (ppm) ND OS (SVOCS) (ppm) ND ND	ND ND ND ND	ND ND ND ND ND ND ND ND ND	0.66 0.1 NS 0.33 20 100	0.6 1 NS 34 100 100	NS 100 100 100	500 1 NS 500 500 500	25 NS 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene	ND N	ND ND 0.57 0.046 0.53 0.34 1.5 1.9	ND POLYCHLOR ND SEMIVOLITALE C ND	ND ND NATED BIPHENYLS (ND RGANIC COMPOUNI ND	ND PCBS) (ppm) ND ND S (SVOCS) (ppm) ND	ND N	ND	0.66 0.1 NS 0.33 20 100 100 1	6.6 1 NS 34 100 100 100 1	33 1 NS 100 100 100 100 1	500 1 NS 500 500 500 500 500 500 5.6	NS 1000 1000 1000 111
Total PCBs 2-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4	ND POLYCHLOR ND SEMIVOLITALE C ND	ND INATED BIPHENYLS ND RGANIC COMPOUNI ND	ND PCBS) (ppm) ND ND SS (SVOCS) (ppm) ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1	6.6 NS 34 100 100 100 1	33 1 NS 100 100 100 100 11 1	500 1 NS 500 500 500 500 500 500 1	NS 1000 1000 1000 111 1.1
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Benzo[a]anthracene Benzo[a]pyrene Benzo[a]byrene Benzo[b]Horoanthene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7	ND POLYCHLOR ND SEMIVOLITALE C ND	ND ND INATED BIPHENYLS ND RGANIC COMPOUNI ND	ND PCBS) (ppm) ND ND SS (SVOCS) (ppm) ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1	6.6 1 NS 34 100 100 100 1 1 1	33 1 NS 100 100 100 100 100 1 1 1	500 1 NS 500 500 500 500 500 500 5.6 1 5.6	NS 1000 1000 1000 111 1.1 11
Z-Methylnaphthalene 4-Methylphenol 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77	ND POLYCHLOR ND SEMIVOLITALE C ND	ND INATED BIPHENYLS (ND RGANIC COMPOUNI ND	ND PCBS (ppm) ND S (SVOCS) (ppm) ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 100	6.6 NS 34 100 100 100 1	33 1 NS 100 100 100 100 11 1 1 100	NS 500 500 500 500 5.6 1 1 5.6 500	S NS 1000 1000 1000 11 1.1 11 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Benzo[a]anthracene Benzo[a]pyrene Benzo[a]byrene Benzo[b]Horoanthene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77 0.87 0.1	ND POLYCHLOR ND SEMIVOLITALE C ND	ND NATE BIPHENYLS ND RGANIC COMPOUNI ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 0.8 NS	0.66 NS	33 1 NS 100 100 100 100 100 1 1 1	500 1 NS 500 500 500 500 500 500 5.6 1 5.6	S NS 1000 1000 1000 1000 11 1.1 11 1000 110 NS
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo [a] anthracene Benzo [a] pyrene Benzo [b] fluoranthene Benzo [k] fluoranthene	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.7 0.87 0.1 0.35	ND POLYCHLOR ND SEMIWOUTALE C ND	ND INATED BIPHENYLS (ND RGANIC COMPOUNT ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 11 1 1 100 0.8 NS NS	6.6 1 NS 34 100 100 100 1 1 1 1 100 1 NS NS	33 1 NS 100 100 100 100 1 1 1 100 3.9 NS NS	\$500 1 NS 500 500 500 500 5.6 1 1 500 500 5.6 500 500 500 500 500 500 500 50	NS 1000 1000 1000 1000 111 1.1 11000 110 NS NS
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzolajanthracene Benzolajpyrene Benzolajpyrene Benzolghfloranthene Benzolghfloranthene Benzolghfloranthene Benzolghfloranthene Benzolghracene Benzolghfloranthene Benzolchracene	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.4 1.7 0.77 0.87 0.1 0.35	ND	ND INATE DIPHENYLS (ND RGANIC COMPOUN) ND	ND PCES) (ppm) ND ND S (SVOCS) (ppm) ND	ND	ND	0.66 0.1 NS 0.33 20 100 11 1 100 0.8 NS NS	0.66 1 NS 34 100 100 100 1 1 1 1 100 1 NS NS NS 1	33 1 NS 100 100 100 100 100 11 1 100 100 100 1	500 1 NS 500 500 500 500 500 5.6 1 1 5.6 500 NS NS NS	500 25 NS 1000 1000 1000 1000 111 11 11000 110 NS NS NS 110
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[g,h,i]perylene Benzo[k]fluoranthene Benzol k]fluoranthene Benzol k]fluoranthene Benzol k]fluoranthene Benzol k]fluoranthene	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.7 0.87 0.1 0.35	ND POLYCHLOR ND SEMIWOUTALE C ND	ND INATED BIPHENYLS (ND RGANIC COMPOUNI ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 11 1 1 100 0.8 NS NS	1 NS 34 100 100 100 1 1 1 1 1 NS NS NS NS 1 1 333 34 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NS 100 100 100 100 1 1 1 1 1 1 1 1 1 1 1	500 1 NS 500 500 500 500 500 5.6 1 5.6 500 56 NS NS NS 56 0.56	500 NS 1000 1000 1000 1000 11 1.1 11 1000 110 NS NS 110 1.1
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzolajanthracene Benzolajpyrene Benzolajpyrene Benzolghfloranthene Benzolghfloranthene Benzolghfloranthene Benzolghfloranthene Benzolghracene Benzolghfloranthene Benzolchracene	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.7 0.77 0.11 0.35 2 0.29 0.57 4.1	ND	ND NATE DIPHENYLS (ND RGANIC COMPOUN) ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 100 0.8 NS NS NS 1 1 0.33 7	0.66 1 NS 34 100 100 100 1 1 1 1 NS NS NS NS 1 1 100 100	33 1 NS 100 100 100 100 100 11 1 1 100 3.9 NS NS NS 0.33 59 100	500 1 NS 500 500 500 500 500 5.6 1 5.6 500 80 NS NS NS NS 56 0.56 350 500	SECTION NS NS NS NS 11000 1100 1100 NS NS NS 11000 1100 11
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Biphenyl Carbazole Chrysene Dibenzo(h)anthracene Dibenzo(h)anthracene Dibenzo(h)anthracene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.7 0.87 0.1 0.35 2 0.29 0.57 4.1	ND	ND INATED BIPHENYLS (ND RGANIC COMPOUNT ND	ND	ND N	ND N	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 00 0.8 NS NS 1 1 0.33 7 100 30	1 NS 34 100 100 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33 1 NS 100 100 100 100 11 1 1 100 3.9 NS NS NS 9 0.33 59 100	500 1 NS 500 500 500 500 5.6 1 5.6 500 56 NS NS 56 0.56 350 500 500	500 25 NS 1000 1000 1000 1100 11 11 11 110 NS NS 110 111 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pryene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b,h)perylene Benzo(b,h)perylene Benzo(k)fluoranthene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Dibenz(an) Fluoranthene Fluoranthene Fluoranthene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.87 0.1 2 0.29 0.29 0.57 4.1 1 0.62	ND	ND INATE DIPHENYLS (ND RGANIC COMPOUN ND	ND	ND N	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 0.08 NS NS 1 0.33 7 100 30 0.5	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	33 1 NS 100 100 100 100 11 1 1 100 3.9 NS NS 3.9 0.33 59 100 100 100 100	500 1 NS 500 500 500 500 5.6 1 1 5.6 500 NS NS NS S6 0.56 350 500 500 500 500 500	500 25 NS 1000 1000 1000 1100 11 1.1 11 1000 110 NS NS 110 1.1 1.1 1000 11000 111 11000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo [a]anthracene Benzo [a]pyrene Benzo [a]pyrene Benzo [k]fluoranthene Fluorene Indexno [1,2,3-d]pyrene Indexno [1,2,3-d]pyrene Indexno [1,2,3-d]pyrene Indexno [1,2,3-d]pyrene Indexno [1,2,3-d]pyrene Indexno [1,2,3-d]pyrene Inaphthalene	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.4 1.7 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62	ND	ND INATED BIPHENYLS I ND RGANIC COMPOUNI ND	ND	ND N	ND	0.66 0.1 NS 0.33 20 100 100 11 1 1 100 0.8 NS NS 1 1 0.33 7 100 30 0.55	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 100 100 1 1 1 1 100 3.9 NS NS 3.9 100 100 100 100 100 100 100 100 100 10	500 1 NS 500 500 500 500 500 500 5.6 1 5.6 500 56 NS NS NS 56 50 500 500 500 500	500 NS 1000 1000 1000 111 1.1 1100 NS NS 1100 1100 1100 1100 111 11000 11000 11000 11000 11000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene Biphenyl Carbazole Chrysene Dibenzofuran Fluoranthene Fluorene Indeno[1,2,3-dipyrene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62 0.63 4.8 3.3	ND	ND INATED BIPHENYLS I ND RGANIC COMPOUNI ND	ND	ND N	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 100 0.8 NS NS 1 0.33 7 100 30 0.5 12 100 100	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 11 1 1 100 3.9 NS NS 0.93 0.93 100 100 100 100 100 100 100 100 100	500 1 NS 500 500 500 500 500 5.6 1 5.6 500 56 NS NS 0.56 350 500 500 500 500 500 500	500 NS 1000 1000 1000 111 1.1 110 1000 1100 110 NS NS 110 1.1 1000 1000 1000 1000 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Dibenzofuran Fluoranthene Fluoranthene Fluoranthene Indeno[1,2,3-cd]pyrene Naphthalene Naphthalene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77 0.87 0.1 0.35 2 0.29 0.57 4.1 1.6.2 0.62 0.63	ND	IND INATED PHENYLS (ND PHENYLS	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 0.8 NS NS 1 1 0.33 7 100 0.5 12	1 NS 34 100 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33 1 NS 100 100 100 100 11 1 1 1 100 3.9 NS NS 3.9 0.33 59 100 0.5 100 100	500 1 NS 500 500 500 500 5.6 1 5.6 NS NS 56 NS 56 350 500 500 5.6 500 500 500	500 25 NS 1000 1000 1000 11000 11 1.1 11 11000 110 NS NS 110 1.1 1000 1000 1000 11 1000 1000 10
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pryene Benzo(a)pryene Benzo(b)fluoranthene Benzo(b,h)perylene Benzo(b,h)perylene Benzo(k)fluoranthene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Fluorene Fluorene Fluorene Naphthalene Phenanthrene Pyrene Pyrene Total TICS	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62 0.63 4.8 3.3 2.9.82	ND	ND INATED BIPHENYLS IN PIPE MY PER PIPE MY	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 0.8 NS NS 1 0.33 7 100 0.8 NS 1 0.33 7 100 0.8 NS	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 11 1 1 1 100 3.9 NS NS 3.9 0.33 59 100 0.5 100 100 NS	500 1 NS 500 500 500 500 500 5.6 1 1 5.6 5.6 NS NS 56 0.56 0.56 500 500 500 NS	Section 1000 1000 1000 1000 1000 1000 1000 10
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]byrene Benzo[g,h,i]perylene Benzo[g,h,i]perylene Benzo[k]fluoranthene Biphenyl Carbazole Chrysene Dibenzofuran Fluoranthene Fluorene Indenof1,2,3-cd pyrene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62 0.63 4.8 3.3	ND	ND INATED BIPHENYLS I ND RGANIC COMPOUNI ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 11 1 1 100 0.8 NS NS 1 1 0.33 7 100 30 0.5 12 100 NS	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 100 11 1 100 3.9 NS NS 0.33 0.33 59 100 100 100 NS	500 1 NS 500 500 500 500 500 5.6 1 5.6 500 56 NS NS NS 56 500 500 500 500 500 500 500	500 NS 1000 1000 1000 11 1.1 1100 1100 NS NS 1100 1000 1000 11000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pryene Benzo(a)pryene Benzo(b)fluoranthene Benzo(b,h)perylene Benzo(b,h)perylene Benzo(k)fluoranthene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Fluorene Fluorene Fluorene Naphthalene Phenanthrene Pyrene Pyrene Total TICS	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.4 1.7 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62 4.8 3.3 29.82	ND	ND INATED BIPHENYLS IN PIPE MY PER PIPE MY	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 0.8 NS NS 1 0.33 7 100 0.8 NS 1 0.33 7 100 0.8 NS	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 11 1 1 1 100 3.9 NS NS 3.9 0.33 59 100 0.5 100 100 NS	500 1 NS 500 500 500 500 500 5.6 1 1 5.6 5.6 NS NS 56 0.56 0.56 500 500 500 NS	Section 1000 1000 1000 1000 1000 1000 1000 10
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Benzolaphthylene Benzolaphtylene Benzolaphtylene Benzolaphtylene Benzolglifluoranthene Benzolglifluoranthene Benzolglifluoranthene Benzolglifluoranthene Benzolglifluoranthene Benzolglifluoranthene Biphenyl Carbazzole Chrysene Dibenz(a,h)anthracene Dibenzolanthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Pluorene Indenol_1,2,3-cd)pyrene Naphthalene Phenanthrene Phenanthrene Phenanthrene Pyrene Total TICS 2-Butanone (MEK) Acetone Benzene Benzene	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.4 1.7 0.77 0.87 0.1 0.35 2 0.29 0.57 4.1 1.0 1.0 0.62 0.63 4.8 3.3 3.3 2.8.82 0.0047 0.02 0.0042	ND	ND INATED BPHENYLS (ND REANIC COMPOUNT ND	ND	ND	ND N	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 1 00 0.8 NS 1 1 0.33 7 100 0.5 12 100 100 100 100 100 100 0.8 NS 0.33 7 100 0.5 0.5 0.06	1 NS 34 100 100 100 1 1 1 1 1 1 1 1 1 1 1 1 1	33 1 NS 100 100 100 100 11 1 100 3.9 NS NS 0.33 59 100 100 100 100 100 100 100 100 100 10	500 1 NS 500 500 500 500 5.6 1 5.6 500 56 NS NS 56 0.56 350 500 5.6 500 500 500 500 500 5	500 25 NS 1000 1000 1000 11 11 11 1000 1100 11
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthene Acenaphthylene Acenaphthylene Anthracene Benzolajantracene Benzolajpyrene Benzolgihuoranthene Benzolgihuoranthene Benzolgihuoranthene Benzolgihuoranthene Benzolkihuoranthene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Dibenzoluranthene Fluorene Indenol1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene Total TiCs 2-Butanone (MEK) Acetone Benzene Chioroform dist,3-chilotroethene	ND	ND ND ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62 0.63 4.8 3.3 29.82 0.0047 0.002 0.0042 0.00046 ND	ND	ND N	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 1 0.8 NS NS 1 0.33 7 100 0.5 12 100 0.5 0.5 0.5 0.05 0.05 0.06 0.37 0.25	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 11 1 1 1 1 100 3.9 NS NS 3.9 0.33 9 100 0.5 100 100 100 100 100 100 100 100 100 10	500 1 NS 500 500 500 500 5.6 1 1 5.6 5.6 NS NS 56 0.56 350 500 5.6 500 500 500 500 500 5	500 25 NS 1000 1000 1000 1100 11 11 11 11000 1100 110 NS NS 110 1.1 11000 1000 1000 1000 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]byrene Benzo[a]byrene Benzo[b]flooranthene Benzo[b]flooranthene Benzo[b,h]perylene Benzo[k]flooranthene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenzofuran Fluoranthene Fluorene Indeno[1,2,3-d]pyrene Naphthalene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Coulombreae Coulom	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.4 1.7 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62 4.8 3.3 29.82 0.0047 0.02 0.0046 ND 0.19	ND ND SEMIVOLITALE O ND	ND INATED BIPHENYLS I ND RGANIC COMPOUNI ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 1 100 0.8 NS NS 1 1 0.33 7 100 30 0.5 12 100 NS 0.5 12 100 0.5 12 100 0.5 12 100 0.5 12 100 0.5 0.7 0.7 0.7 0.7 0.7 0.8	1 NS 34 100 100 100 11 1 1 100 100 100 100 100	33 1 NS 100 100 100 100 100 11 1 1 100 3.9 NS NS NS 0.93 0.93 0.93 0.90 100 100 100 100 100 100 100 100 100 1	500 1 NS 500 500 500 500 500 5.6 1 5.6 500 56 NS NS 56 56 500 500 500 500 500 500 500 500 5	500 NS 1000 1000 1000 11 1.1 11 1000 1100 NS NS 110 1000 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b,h)lperylene Benzo(b,h)lperylene Benzo(b,h)lperylene Benzo(b,h)lperylene Benzo(b,h)lperylene Benzo(b,h)lperylene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenz(a,h)anthracene Dibenzofuran Fluoranthene Fluorane Indeno[1,2,3-cd]pyrene Naphthalene Naphthalene Pyrene Total TICs 2-Butanone (MEK) Acetone Benzene Chiloroform cis-1,2-Dichloroethene Cyclohexane	ND	ND ND ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77 0.87 0.1 0.35 2 0.29 0.57 4.1 1 0.62 0.63 4.8 3.3 29.82 0.0047 0.002 0.0042 0.00046 ND	ND	ND N	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 1 0.8 NS NS 1 0.33 7 100 0.5 12 100 0.5 0.5 0.5 0.05 0.05 0.06 0.37 0.25	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 11 1 1 1 1 100 3.9 NS NS 3.9 0.33 9 100 0.5 100 100 100 100 100 100 100 100 100 10	500 1 NS 500 500 500 500 5.6 1 1 5.6 5.6 NS NS 56 0.56 350 500 5.6 500 500 500 500 500 5	500 25 NS 1000 1000 1000 1100 11 11 11 11000 1100 110 NS NS 110 1.1 11000 1000 1000 1000 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]byrene Benzo[a]byrene Benzo[b]flooranthene Benzo[b]flooranthene Benzo[b,h]perylene Benzo[k]flooranthene Biphenyl Carbazole Chrysene Dibenz(a,h)anthracene Dibenzofuran Fluoranthene Fluorene Indeno[1,2,3-d]pyrene Naphthalene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Coulombreae Coulom	ND	ND ND 0.57 0.046 0.53 0.34 1.5 1.4 1.7 0.77 0.87 0.1 0.35 2 0.29 0.57 4.1 1.0 1.0 0.62 0.02 0.0042 0.0042 0.0042 0.0042 0.002 0.019 0.02 0.019 0.02	ND	ND INATED BIPHENYLS I BIPHENYL	ND	ND	ND N	0.66 0.1 NS 0.33 20 100 100 1 1 1 1 1 00 0.8 NS NS 1 1 0.03 0.33 7 100 0.5 12 100 100 100 100 100 100 100 100 100	1 NS 34 100 100 100 1 1 1 1 1 1 1 1 1 1 1 1 1	33 1 NS 100 100 100 100 100 11 1 1 10 3.9 NS NS 3.9 NS 0.33 59 100 100 100 100 100 100 100 100 100 10	500 1 NS 500 500 500 500 5.6 1 5.6 500 56 NS NS 56 350 500 5.6 350 500 500 500 500 500 500 50	500 25 NS 1000 1000 1000 1000 11 1.1 11 1000 1100 110 NS NS 110 1.1 1000 1000 1000 1000 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Benzolaphtracene Benzolaphrene Benzolplfluoranthene Benzolplfluoranthene Benzolplfluoranthene Benzolplfluoranthene Benzolplfluoranthene Benzolplfluoranthene Benzolplfluoranthene Biphenyl Carbaziole Chrysene Dibenz(An)lanthracene Dibenz(An)lanthracene Dibenzioran Fluoranthene Fluorene Indenol1,2,3-edjpyrene Naphthalene Phenanthrene Pyrene Total TICs 2-Butanone (MEK) Acetone Benzene Chloroform dis-1,2-Dichloroethene Cyclohexane Ethylbenzene Isopropulbenzene Boptopulbenzene Methyleyclohexane Methylene Chloride	ND	ND ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77 0.87 0.1 0.35 2 0.057 4.1 1.0 0.52 0.63 4.8 3.3 29.82 0.0047 0.002 0.0042 0.0046 ND 0.19 0.02 0.012 0.024 0.0012 0.024 0.0035	ND	ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 11 1 1 1 00 0.8 NS NS 1 1 0.33 7 100 0.5 12 100 100 100 0.5 12 100 100 100 NS NS 11 100 100 100 100 NS NS NS NS 0.05 0.06 0.07 NS NS NS	1 NS 34 100 100 100 1 1 1 1 1 1 1 1 1 1 1 1 1	33 1 NS 100 100 100 100 100 11 1 1 1 100 3.9 NS NS 3.9 0.33 9 100 0.5 100 100 100 100 NS	500 1 NS 500 500 500 500 5.6 1 1 5.6 5.6 NS NS 56 0.56 0.56 0.56 NS NS 500 500 500 NS 500	500 25 NS 1000 1000 1000 11000 11 1.1 11 11000 110 NS NS 110 1.1 11000 1000 1000 1000 1000 1000
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]byrene Benzo[a]byrene Benzo[a,h]perylene Benzo[b]fluoranthene Benzo[b,h]perylene Benzo[k]fluoranthene Biphenyl Carbazole Chrysene Dibenzofuran Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Chloroform Cis-1,2-Dichloroethene Chloroform Cis-1,2-Dichloroethene Chloroform Cis-1,2-Dichloroethene Chloroform Cis-1,2-Dichloroethene Chylohexane Ethylbenzene Boppropylbenzene Methylcyclohexane Methylenechloride Totoluene Methylcyclohexane Methylenechloride Totoluene Methylcyclohexane Methylenechloride Totoluene Methylcyclohexane Methylenechloride Totoluene	ND	ND ND 0.57 0.046 0.53 1.5 1.9 1.4 1.7 0.87 0.11 0.35 2 0.29 0.57 4.1 1 0.62 0.63 4.8 3.3 29.82 0.0047 0.02 0.0046 ND 0.19 0.02 0.012 0.044	ND ND SEMIVOLITALE O ND	ND INATED BIPHENYLS I ND PHENYLS I ND PHENYLS I ND N	ND	ND N	ND	0.66 0.1 NS 0.33 20 100 100 11 1 1 1 100 0.8 NS NS 1 1 0.03 0.33 7 100 0.05 0.05 0.05 0.06 0.37 0.25 NS 1 NS NS 1 NS NS 0.33	1 NS 34 100 100 100 100 100 100 100 100 100 10	33 1 NS 100 100 100 100 100 100 11 1 1 100 3.9 NS NS 3.9 100 100 100 100 100 100 100 100 100 10	500 1 NS 500 500 500 500 500 5.6 1 5.6 500 56 NS NS NS 56 500 500 500 500 500 500 500	500 NS 1000 1000 1000 11 1.1 110 1000 1100 11
Total PCBs 2-Methylnaphthalene 4-Methylphenol Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Benzolaphyrene Benzolaphyrene Benzolpifluoranthene Benzolpifluoranthene Benzolpifluoranthene Benzolpifluoranthene Benzolpifluoranthene Benzolpifluoranthene Benzolpifluoranthene Biphenyl Carbazole Chrysene Dibenzidanianthracene Dib	ND	ND ND ND 0.57 0.046 0.53 0.34 1.5 1.9 1.4 1.7 0.77 0.87 0.1 0.35 2 0.057 4.1 1.0 0.52 0.63 4.8 3.3 29.82 0.0047 0.002 0.0042 0.0046 ND 0.19 0.02 0.012 0.024 0.0012 0.024 0.0035	ND	ND	ND	ND	ND	0.66 0.1 NS 0.33 20 100 100 11 1 1 1 00 0.8 NS NS 1 1 0.33 7 100 0.5 12 100 100 100 0.5 12 100 100 100 NS NS 11 100 100 100 NS NS NS 0.05 0.05 NS NS NS NS	1 NS 34 100 100 100 1 1 1 1 1 1 1 1 1 1 1 1 1	33 1 NS 100 100 100 100 100 11 1 1 1 100 3.9 NS NS 3.9 0.33 9 100 0.5 100 100 100 100 NS	500 1 NS 500 500 500 500 5.6 1 1 5.6 5.6 NS NS 56 0.56 0.56 0.56 NS NS 500 500 500 NS 500	500 25 NS 1000 1000 1000 11000 11 1.1 11 11000 110 NS NS 110 1.1 11000 1000 1000 1000 1000 1000

TABLE 2 SURFACE AND STEP-OUT SOIL SAMPLE ANALYTICAL RESULTS

Sample Identification, Sample Depth and Sample Collection Date								NYSDEC Part 375 Soil Cleanup Objectives (SCOs)					
										1413BECT dit 37	5 5011 Cicanap C	bjectives (Seos)	
Analyte	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8			Restricted		
	0.17-0.5'	0.17-0.5'	0.17-0.5'	0.17-0.5'	0.17-0.5'	0.17-0.5'	0.17- 0.5'	0.17-0.5'	Unrestricted	Residential	Residential	Commercial	Industrial
				8/7/202	5		0.5						
				MET	ALS (ppm)								
Aluminum	10400	9650	9290	9330	11900	6170	11800	12800	-	-	-	-	-
Antimony	ND 12.6	ND 12.7	ND 15.7	ND 9.6	ND 10.5	ND 6.2	ND 0.4	ND 13.9	13	16	16	16	16
Arsenic Barium	130	135	80.8	9.6	137	39.3	8.4 127	200	350	350	400	400	10000
Beryllium	0.61	0.55	0.55	0.6	0.6	0.3	0.67	0.64	7.2	14	72	590	2700
Cadmium	0.43	0.56	0.35	0.5	0.48	0.35	2.7	0.41	2.5	2.5	4.3	9.3	60
Calcium	1980	21500	2280	5090	3360	41000	17900	4650	-	-	-	-	-
Chromium	22.5	39.8	23.5	20.1	22.7	15.1	19.2	19.8	1	22	110	400	800
Cobalt Copper	8.6 35.8	6.5 50.4	9.6 52.3	8.9 53.6	8.6 36.6	5.7 18.2	6.6 36.6	9.5 43.8	50	270	270	270	10000
Iron	22700	39000	47100	28000	22800	18200	30900	26700	-	-	-	-	-
Lead	187	209	96.4	206	276	21.7	208	353	63	400	400	1000	3900
Magnesium	2200	1880	1940	2160	2570	8860	1670	2520	=	=	9	=	=
Manganese	311	1710	384	423	272	445	1280	648	1600	2000	2000	10000	10000
Nickel Potassium	26.9	1200	29.1	24.4	25.3	22.5	22.4	25.2	30	140	310	310	10000
Potassium Selenium	1770 ND	1290 1.8	1630 ND	1710 1.1	2300 ND	1210 ND	1920 1.5	2280 0.95	3.9	36	180	1500	6800
Silver	ND	0.28	ND	ND	ND	ND	0.24	0.33	2	36	180	1500	6800
Sodium	85.3	182	ND	87	79	96.7	183	110	-	-	-	-	-
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
Vanadium	20.9	31.2	18.9	21.1	22.5	15.9	26.6	26.2	-	-	-	-	-
Zinc Cyanide, Total	142 ND	175 2.2	2.2	177 0.69	285 0.54	118 ND	178 5.1	168 ND	109 27	2200 27	10000 27	10000 27	10000 10000
Mercury	0.12	0.049	0.21	0.89	0.34	0.011	0.18	0.59	0.18	0.81	0.81	2.8	5.7
				ANOCHLOR			3123		3.10	3.02	0.02		
4,4'-DDD	-	ND	-	-	-	ND	ND	0.0071	0.0033	2.6	13	92	180
4,4'-DDE	-	ND	-	-	-	ND	ND	0.015	0.0033	1.8	8.9	62	120
4,4'-DDT	-	ND	-	-	-	0.014	0.016	0.015	0.0033	1.7	7.9	47	94
Aldrin alpha-BHC	-	ND 0.015	-	-	-	ND ND	ND ND	ND ND	0.005	0.019 0.097	0.097 0.48	0.68 3.4	1.4 6.8
Endrin	-	0.029	_	-	-	0.014	0.013	ND	0.014	2.2	11	89	410
			PER- & POLY	FLUOROAL	(YL SUBSTA								
Perfluorobutanoic acid (PFBA)	-	ND	-	-	-	ND	0.25	0.18	-	-		-	-
Perfluorodecanesulfonic acid (PFDS)	-	ND	-	-	-	ND	ND	ND	-	-	-	-	-
Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA)	-	0.13 0.12	-	-	-	0.050 ND	0.11 ND	0.061 ND	-	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	-	ND	-	-	-	ND	0.11	0.099	-	-	-	-	-
Perfluorohexanoic acid (PFHxA)	-	ND	-	-	-	ND	ND	0.10	-	-	-	-	-
Perfluorononanoic acid (PFNA)	-	0.089	-	-	-	0.062	0.22	0.16	-	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	-	0.37	-	-	-	0.25	0.89	0.28	0.88	8.8	44	440	440
Perfluorooctanoic acid (PFOA)	-	0.078	-	-	-	ND	0.38	0.17	0.66	6.6	33	500	600
Perfluoropentanoic acid (PFPeA) Perfluorotridecanoic acid (PFTrDA)	-	ND 0.087		-	-	ND ND	ND ND	0.059 ND	-	-	-	-	-
Perfluoroundecanoic acid (PFUnA)	-	0.22	-	-	-	ND	0.11	0.052	-	-	-	-	-
			POLYCH	LORINATED	BIPHENYLS	(PCBS) (ppr	n)						
Total PCBs	ND	-		-	ND	ND	ND	-	0.1	1	1	1	25
2 Mathylasahthalana	0.40	1.2	SEMIVOLITA		COMPOUN			ND	NC	NC	NC	NC	NC
2-Methylnaphthalene Acenaphthene	0.49 ND	1.3 ND	0.95 1	0.75 ND	-	ND ND	0.59 ND	ND ND	NS 20	NS 100	NS 100	NS 500	NS 1000
Acenaphthylene	0.96	0.18	0.14	0.19	-	ND	ND	ND	100	100	100	500	1000
Acetophenone	ND	ND	0.083	ND	-	ND	ND	ND	NS	NS	NS	NS	NS
Anthracene	0.74	0.16	2.1	ND	-	ND	0.26	0.36	100	100	100	500	1000
Benzo[a]anthracene	3.6	0.8	4.3	0.82	-	0.073	0.71	0.56	1	1	1	5.6	11
Benzo[a]pyrene Benzo[b]fluoranthene	3 4	0.91 1.4	3.6 4.5	0.89 1.3	-	0.11	0.84	0.65	1	1	1	1 5.6	1.1
Benzo[b]fluoranthene Benzo[g,h,i]perylene	2.1	0.68	2.8	0.77	-	0.18	1.1 0.7	0.73	100	100	100	5.6	1000
Benzo[k]fluoranthene	2.8	0.48	2.4	0.71	-	0.061	0.61	0.38	0.8	1	3.9	56	110
Biphenyl	ND	ND	0.09	ND	-	ND	ND	ND	NS	NS	NS	NS	NS
Carbazole	ND	ND	1.7	ND	-	ND	ND	ND	NS	NS	NS	NS	NS
Chrysene	3.4	1.2	4.1	1.1	-	0.13	0.84	0.68	1	1	3.9	56	110
Dibenz(a,h)anthracene Dibenzofuran	0.68 ND	ND 0.33	0.78 0.72	ND 0.16	-	ND ND	ND ND	ND ND	0.33 7	0.33 14	0.33 59	0.56 350	1.1
Fluoranthene	6.9	1.6	11	1.6	-	0.21	1.7	1.5	100	100	100	500	1000
Fluorene	0.27	ND	0.82	ND	-	ND	ND	0.17	30	100	100	500	1000
Indeno[1,2,3-cd]pyrene	1.8	0.59	2.3	0.63	-	0.088	0.54	0.37	0.5	0.5	0.5	5.6	11
Naphthalene	0.32	0.91	0.61	0.5	-	ND	ND	ND	12	100	100	500	1000
Phenanthrene	3.4	1.4	10	1	-	ND 0.18	1.1	1.3	100	100	100	500	1000
Pyrene Total TICs	5.4 57.4	1.4 10.3	8.7 40.74	1.5 35.2	-	0.18 12.34	1.4 77.6	1.1 28.9	100	100	100	500	1000
			70.74	JJ.2		14.34	//.0	20.3					-

TABLE 2 SURFACE AND STEP-OUT SAMPLE ANALYTICAL RESULTS

						Sample	Identificatio	n, Sample D	epth and Sa	mple Collec	tion Date						N	YSDEC Part 37	Soil Cleanup (Objectives (SCO	s)
	STP-1 E	STP-1 N	STP-1 S	STP-1 W	STP-2 E	STP-2 N	STP-2 S	STP-2 W	STP-3 E	STP-3 N	STP-3 S	STP-3 W	STP-4 E	STP-4 N	STP-4 S	STP-4 W					
Analyte	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	1-2'	Unrestricted	Residential	Restricted Residential	Commercial	Industrial
								8/11	2025												
								MET	ALS (ppm)												
Aluminum	6250	8710	10200	12700	12800	7980	19300	7430	5140	9570	4780	4970	10000	16100	16500	15200	-		,	-	-
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-		,	-	-						
Arsenic	19	19.2	9.3	29.5	9.2	11.9	14.2	19.3	10.7	6.9	15.8	11.7	9.8	12.9	13.7	13.2	13	16	16	16	16
Barium	417	574	114	150	150	103	190	144	83.1	116	80.5	56.9	411	491	537	403	350	350	400	400	10000
Beryllium	0.68	1.6	0.77	1.3	0.8	0.61	1.1	0.65	0.81	0.49	1.1	0.77	0.59	0.97	0.99	1.2	7.2	14	72	590	2700
Cadmium	0.65	0.95	0.47	0.25	0.35	0.44	0.4	0.41	0.26	0.75	0.13	0.18	0.79	1.6	0.99	1.1	2.5	2.5	4.3	9.3	60
Calcium	4500	7110	6460	5330	10300	18000	3390	16700	4820	25500	3480	3500	9950	10900	7350	8650	-	-	-	-	-
Chromium	19.3	19.9	17.3	18.9	18.1	16.5	25.7	21.3	11.1	13.3	8.4	9.3	28.1	42.7	168	39.6	1	22	110	400	800
Cobalt	7	9.6	11.3	8.1	8.8	6.8	13.9	6.1	7	6.4	8.2	8.1	8.2	11.8	13.4	11.6	-	-	-	-	-
Copper	82.8	80.3	24.9	29.1	34.6	87.8	39.3	202	74	33.3	60.7	69.9	56.6	761	91.4	107	50	270	270	270	10000
Iron	29500	22300	31300	27800	21600	25300	31800	32700	29000	31500	31000	37800	21300	26900	37600	31600	-	-	-	-	-
Lead	399	656	131	249	154	101	177	267	226	140	37.9	95.9	1180	1090	1120	2460	63	400	400	1000	3900
Magnesium	645	1110	1190	460	2460	999	4170	1230	567	2910	238	203	2110	2970	3500	3040	-	-	-	-	-
Manganese	211	240	987	52.2	866	1520	380	1120	128	445	61.4	95.1	270	330	430	402	1600	2000	2000	10000	10000
Nickel	61.3	24.5	17.4	19.1	23	16.7	39.7	23.8	15.9	20.6	17.9	16.8	22.2	37.7	39.8	37.9	30	140	310	310	10000
Potassium	692	859	1420	1440	2040	1020	3530	1010	622	1110	485	339	2110	2900	3390	2950	-	-	-	-	-
Selenium	2.3	0.93	1.3	ND	1.4	2.8	1.1	2.4	1	1.3	1.6	ND	1.1	1.4	1.3	1.8	3.9	36	180	1500	6800
Silver	ND	0.22	ND	ND	0.22	0.22	0.35	0.22	ND	ND	ND	ND	0.4	0.79	0.85	0.68	2	36	180	1500	6800
Sodium	244	386	138	651	186	208	173	248	113	117	105	101	153	220	222	145	-	-	-	-	-
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-						
Vanadium	19	26.9	24.9	33	26.5	18.6	40.5	19.9	18.1	23.4	20.2	19	20.2	32.3	32.2	30.5	-	-	-	-	-
Zinc	435	731	123	56.4	146	159	154	186	79.4	240	37.4	47.3	595	1180	686	652	109	2200	10000	10000	10000
Cyanide, Total	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.91	0.59	27	27	27	27	10000
Mercury	0.18	0.17	0.079	0.033	0.19	0.078	0.13	0.098	0.18	0.17	0.11	0.051	2.4	0.8	2.3	1.7	0.18	0.81	0.81	2.8	5.7

TABLE 3 GROUNDWATER SAMPLE ANALYTICAL RESULTS

	Sa	mple Identificat	tion and Sample	Date	NYSDEC Division of Water	
Parameter Tested	RI-MW-2	RI-BW-1	RI-BW-2	RI-BW-3	Technical and Operational Guidance Series (1.1.1)	
		8/1	5/2025			
	METALS (ug/L)					
Aluminum	ND	610	820	310	NS	
Antimony	ND	ND	ND	ND	3	
Arsenic	ND	ND	ND	ND	25.0	
Barium	190	99	120	570	1000	
Beryllium	ND	ND	ND	ND	3	
Cadmium	ND	ND	ND	ND	3	
Calcium	115000	161000	55000	115000	NS	
Chromium	ND	1.2	ND	ND	50	
Cobalt	2.9	1.2	0.65	ND	NS	
Copper	3.6	2.8	1.8	1.7	200	
Cyanide, Total	8	11	8	6	200	
Iron	2500	1400	140	330	300	
Lead	ND	ND	ND	ND	25.0	
Magnesium	9400	24000	19500	30500	35,000	
Manganese	590	100	350	280	300.0	
Mercury	ND	ND	ND	ND	0.7	
Nickel	2.5	5.4	1.3	1.7	100.0	
Potassium	4600	8900	21400	4100	NS	
Selenium	ND	ND	ND	9.4	10.0	
Silver	ND 10	ND	ND	ND	50.0	
Sodium	10	130000	34100	73700	20,000	
Thallium	ND	ND	ND	ND	0.5	
Vanadium	ND 21	2.3	2.4	ND ND	NS 2.000	
Zinc	SVOCS (ug/L)	3.5	ND	ND	2,000	
4.4.0:		ND	0.40	NB	0.25	
1,4-Dioxane	ND	ND	0.18	ND	0.35	
2-Methylnaphthalene	ND 75.4	ND 84.6	0.66 276.3	ND 03.1	NS NS	
Total TICs		84.6	2/6.3	92.1	NS	
	VOCS (ug/L)	ND	F 0	NB	1	
Acetone	ND	ND	5.8	ND	50	
Benzene	ND	ND C.F.	0.79	1.1	1	
Cyclohexane	ND	6.5	5.9	5.7	NS	
Ethylbenzene Mathylpusiahayana	ND	0.84	1.2	1 6.2	5 NC	
Methylcyclohexane	ND ND	7.1	5.4	6.2	NS	
m,p-Xylene	ND	3.6	5	2.2	5	
o-Xylene Total TICs	ND 0	1.7 29.2	2.7 29.6	26.4	5 NG	
Tetrachloroethene	ND	29.2 ND	29.6 ND	20.4 ND	NS NS	
Toluene	ND ND	2.7	3.5	3.8	NS NS	
Tolderie	PFAS (ng/L)	2.7	5.5	3.0	143	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)		ND	ND	ND	NS	
Perfluorobutanesulfonic acid (PFBS)	5.5 2.0	ND ND	ND ND	ND ND	NS NS	
Perfluorobutanoic acid (PFBA)	2.0	2.3	ND ND	1.6	NS NS	
Perfluorobutanoic acid (PFBA) Perfluoroheptanoic acid (PFBA)	3.1	ND	ND ND	ND	NS NS	
Perfluorohexanoic acid (PFHxA)	33	ND ND	ND ND	ND	NS NS	
Perfluorooctanesulfonic acid (PFOS)	11	ND ND	ND ND	ND	2.7	
Perfluorooctanoic acid (PFOA)	8.1	ND ND	ND ND	ND	6.7	
Perfluoropentanoic acid (PFPeA)	39	1.5	ND ND	0.94	NS	
- Chiaoropentanoic acia (111 CA)	PCBS (ug/L)	1.3	IAD	0.34	INS	
Total PCBs	ND	ND	ND	ND	0.09	
	GANOCHLORINE PESTICIDES		טאו	ND	0.09	
	ND		ND	0.042	0.2	
4,4'-DDT Heptachlor epoxide	ND ND	0.032 ND	ND 0.0086	0.043 ND	0.2 0.03	
ricptacinor epoxiae	Notes:	ואט	0.0000	ND	0.05	

Notes:

ND Not Detected

NS No Standard

TICs Tentatively Identified Compounds

Exceeds TOGs

TABLE 4
VAPOR SAMPLE ANALYTICAL RESULTS

		Sample Identification, Type of Sample, and Date Analyzed										
	RI-VP-1	RI-VP-2	RI-VP-3	RI-VP-4	RI-VP-5	RI-VP-6	RI-VP-7	RI-VP-8	Table 3.1 NYSDOH Indoor Air Guideline			
				6/5	/2025	<u>' </u>			Values			
Contaminants		Volatile Organic Compounds (TO-15)										
1,2,4-Trimethylbenzene	ND	ND	ND	ND	110	110	25	69	-			
1,3-Butadiene	12	4.8	2.7	4.0	1.9	1.8	ND	4.1	-			
1,3,5-Trimethylbenzene	ND	ND	ND	ND	30	30	8.0	19	-			
2,2,4-Trimethylpentane	35	ND	14	11	ND	150	28	29	-			
4-Ethyltoluene	ND	ND	ND	ND	35	36	ND	26	-			
4-Isopropyltoluene	ND	ND	ND	ND	7.1	9.1	ND	4.8	-			
Acetone	53000	9200	7400	18000	5300	3100	4700	4400	-			
Benzene	ND	5.1	3.4	ND	4.3	6.1	4.4	3.6	-			
Carbon disulfide	ND	ND	53	ND	160	56	24	85	-			
Cumene	ND	ND	13	ND	12	13	ND	8.9	-			
Cyclohexane	260	55	45	35	1600	660	890	480	-			
Ethylbenzene	23	ND	26	15	42	39	14	36	-			
Isopropyl alcohol	1400	ND	ND	460	98	ND	ND	ND	-			
m,p-Xylene	40	6.2	48	44	100	96	28	84	-			
Methyl Butyl Ketone (2-Hexanone)	410	450	49	42	72	ND	ND	50	-			
Methyl Ethyl Ketone (2-Butanone)	7400	17000	540	780	280	160	130	130	-			
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	60			
n-Butane	730	150	2700	430	1100	190	98	1400	-			
n-Butylbenzene	ND	ND	ND	ND	13	16	ND	9.7	-			
n-Heptane	920	100	500	54	3600	2200	150	44	-			
n-Hexane	2100	190	1500	150	3000	2400	58	130	-			
n-Propylbenzene	ND	ND	ND	ND	30	29	ND	22	-			
Naphthalene	ND	ND	ND	ND	ND	13	14	ND	-			
o-Xylene	ND	ND	21	13	50	47	14	38	-			
sec-Butylbenzene	ND	ND	ND	ND	11	12	ND	7.0	-			
tert-Butyl alcohol	ND	ND	ND	120	ND	ND	160	ND	-			
Tetrachloroethene	ND	21	9.3	97	10	ND	140	8.3	30			
Toluene	68	8.0	63	29	68	63	27	65	-			
Trichloroethene	ND	ND	3.4	ND	4.7	5.5	ND	ND	2			

Notes

- (1) All values are in micrograms per cubic meter (ug/m³)
- ND Not detected
- Not applicable/no guidance value

TABLE 5 SUMMARY OF SOIL ANALYTICAL RESULTS FEBRUARY 2023 PHASE II ESA



	BE3 Ph	ase II Report Janu	ary 2023 - Sample	Identification, Sa	mple Depth in fe	et below ground	surface (bgs), and	Sample Date		NYSDEC So	il Cleanup Object	ives (SCOs)	
Parameter Tested	BH1	BH2	BH3	BH4	BH4	BH5	BH6	BH7					
raidilletei Testeu	0-2	0-3	0-3	0-3	4-5	0-3	0-3	0-3			Restricted		
				1/1	13/2023				Unrestricted	Residential	Residential	Commerical	Industrial
						METALS/INORO	GANICS						
Arsenic	35.3	17.0	3.6	11.4	ND	44.0	10.2	32.4	13	16	16	16	16
Barium	501	221	39.5	73.0	ND	141.0	248	109	410	410	410	410	10,000
Beryllium	1.2	2.10	0.23 J	0.5	ND	0.89	0.78	1.10	4.4	8.8	43	670	750
Cadmium	1.2	0.7	0.094 J	0.3	ND	0.35	0.62	0.37	2.5	2.5	2.5	3.7	4.4
Chromium	22.3	18.7	6.1	28.1	ND	78.0	13.6	17.4	30	30	110	1,700	2,000
Copper	114.0	64.5	9.6	20.4	ND	63.7	54.6	41.0	50	280	280	280	10,000
Lead	1200	245	60.6	10.6	ND	31.6	386	90	63	400	400	1,000	3,900
Manganese	313 B	482 B	108 B	3450.0	ND	6080 B	198 B	261 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.52 B	0.23 B	0.35 B	0.04 B	ND	0.051 B	0.28 B	0.16 B	0.18	0.26	0.26	1.1	1.1
Nickel	25.8	38.0	6.1	13.9	ND	49.4	16.7	23.3	30	44	210	320	3,400
Selenium	3.0 J	ND	ND	1.5 J	ND	1.3 J	1.0 J	1.1 J	4	22	110	1,700	2,000
Silver	0.54 J	ND	ND	ND	ND	0.34 J	0.34 J	ND	2	22	110	1,700	2,000
Zinc	353	146	54.4	17.1	ND	22.7	174	91.4	109	1,300	6,600	10,000	10,000
					SEMI-VOLAT		OMPOUNDS (SVC						
Acenaphthene	0.61 J	ND	ND	ND	ND	0.38	0.11 J	ND	20	100	100	500	1,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	0.036 J	ND	100	100	100	500	1,000
Anthracene	1.2 J	1.3 J	ND	ND	ND	0.84	0.37	ND	100	100	100	500	1,000
Benzo(a)anthracene	2.9	7.5	ND	ND	ND	1.4	1.3	0.086 J	1	1	1.4	37	37
Benzo(a)pyrene	3.2	7.1	0.38 J	0.032 J	ND	1.2	1.3	0.13 J	1	1	1	3.7	3.7
Benzo(b)fluoranthene	3.3	9.9	0.47 J	0.04 J	ND	1.2	1.3	0.17 J	1	1	1.4	37	37
Benzo(g,h,i)perylene	5.4	4.2	0.31 J	0.038 J	ND	0.83	0.85	0.15 J	0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	1.4 J	4.3	0.16 J	ND	ND	0.64	0.72	0.071 J	0.8	1.2	4.9	47	78
Chrysene	3.1	9.1	0.30 J	ND	ND	1.3	1.4	0.13 J	1	1.2	4.9	47	78
Dibenz(a,h)anthracene	1.5 J	2.2	ND	ND	ND	0.24	0.27	0.047 J	0.33	0.33	0.33	3.7	3.7
Dibenzofuran	0.33 J	ND	ND	ND	ND	0.22	0.074 J	ND	2.1	4.2	18	180	290
Fluoranthene	7.0	11	0.49 J	0.029 J	ND	2.9	2.2	0.14 J	85	100	100	500	1,000
Fluorene	0.55 J	0.37 J	ND	ND	ND	0.39	0.11 J	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	2.40	4.4	0.27 J	0.034 J	ND	0.74	0.8	0.11 J	0.5	0.5	1.4	37	37
Naphthalene	ND	ND	ND	ND	ND	0.13 J	0.071 J	ND	12	84	100	500	1,000
Phenanthrene	6.0	4.5	0.27 J	0.036 J	ND	3.1	1.6	0.11 J	1.1	1.2	4.9	47	78
Pyrene	6.0	8.2	0.46 J	0.037 J	ND	3.1	2.3	0.17 J	64	100	100	500	1,000

ND Analyte not detected

- Not Applicable or sample not tested for this analyte

Analyte detected
Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

Reported concentration greater than or equal to the NYSDEC Residential SCO

Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

Reported concentration greater than or equal to the NYSDEC Commercial SCO

Reported concentration greater than or equal to the NYSDEC Industrial SCO

J Estimated Concentration

B Anaalyte detected in method blank

K Result is reported as Benzo(b)fluoranthene

E Results exceeded calibration range

T Result is Tentatively Identifies Compound and an estimated value

TABLE 5 SUMMARY OF SOIL ANALYTICAL RESULTS FEBRUARY 2023 PHASE II ESA



	BE3 Pha	se II Report Janu	ary 2023 - Sample	Identification, Sa	mple Depth in fe	et below ground	surface (bgs), and	Sample Date		NYSDEC So	il Cleanup Object	ives (SCOs)	
Parameter Tested	BH8	ВН9	BH10	BH11	BH12	BH13	BH14	BH15			Destricted		
i di dineter rested	0-3	0-3	0-2	0-2	0-2	0-2	1-2	1-2	.		Restricted		
				1/:	13/2023				Unrestricted	Residential	Residential	Commerical	Industrial
						METALS/INORO							
Arsenic	4.2	10.7	12.5	10.0	9.4	15.1	8.3	16.9	13	16	16	16	16
Barium	90.7	155	180.0	194	203	633	89.7	131	410	410	410	410	10,000
Beryllium	0.85	0.8	0.92	0.74	0.50	0.89	0.80	0.95	4.4	8.8	43	670	750
Cadmium	0.17 J	0	0.460	0.95	0.63	0.7	0.23 J	0.40	2.5	2.5	2.5	3.7	4.4
Chromium	6.5	26.8	26.6	33.1	16.5	28.2	11.0	12.9	30	30	110	1,700	2,000
Copper	31.8	32.1	33.2	58.6	30.9	70.8	49.0	84.5	50	280	280	280	10,000
Lead	47.9	104.0	281.0	393.0	447	1120	70.6	192	63	400	400	1,000	3,900
Manganese	290 B	302 B	375 B	320 B	365 B	762 B	288 B	336 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.035 B	0.15 B	0.15 B	0.32 B	1.0 B	6.7 B	0.44 B	0.27 B	0.18	0.26	0.26	1.1	1.1
Nickel	8.4	33.7	31.6	44.6	15.6	30.1	20.7	24.6	30	44	210	320	3,400
Selenium	ND	0.65 J	ND	ND	ND	1.1 J	ND	1.4 J	4	22	110	1,700	2,000
Zinc	39.8	105.0	176.0	261	284	438	93.1	99	109	1,300	6,600	10,000	10,000
					SEMI-VOLAT	ILE ORGANIC CO	OMPOUNDS (SVO	OCs)					
Acenaphthene	ND	ND	0.049 J	ND	0.42	ND	ND	ND	20	100	100	500	1,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	0.13 J	0.028 J	100	100	100	500	1,000
Anthracene	ND	ND	0.19 J	ND	0.9	ND	ND	ND	100	100	100	500	1,000
Benzo(a)anthracene	ND	ND	0.39	ND	1.5	0.093 J	0.44 J	0.28	1	1	1.4	37	37
Benzo(a)pyrene	ND	0.18 J	0.38	ND	1.2	0.13 J	0.57 J	0.27	1	1	1	3.7	3.7
Benzo(b)fluoranthene	ND	0.21 J	0.42	ND	1.1	0.15 J	0.83 J	0.34	1	1	1.4	37	37
Benzo(g,h,i)perylene	ND	ND	0.26	ND	0.740	0.095 J	0.38 J	0.16 J	0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	ND	0.14 J	0.2 J	ND	0.63	0.061 J	0.29 J	0.16 J	0.8	1.2	4.9	47	78
Chrysene	ND	ND	0.43	ND	1.5	0.14 J	0.52 J	0.3	1	1.2	4.9	47	78
Dibenz(a,h)anthracene	ND	ND	0.084 J	ND	0.18 J	ND	ND	0.051 J	0.33	0.33	0.33	3.7	3.7
Dibenzofuran	ND	ND	0.051 J	ND	0.16 J	ND	ND	0.03 J	2.1	4.2	18	180	290
Fluoranthene	3.5 J	0.39 J	0.8	6.3 J	2.9	0.250	0.61 J	0.31	85	100	100	500	1,000
Fluorene	ND	ND	0.064 J	ND	0.340	ND	ND	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	0.13 J	0.25	ND	0.69	0.095 J	0.37 J	0.16 J	0.5	0.5	1.4	37	37
Naphthalene	ND	ND	0.039 J	ND	ND	ND	ND	0.041 J	12	84	100	500	1,000
Phenanthrene	ND	0.25 J	0.77	5.8 J	3.6	0.19 J	0.2 J	0.23	1.1	1.2	4.9	47	78
Pyrene	3.2 J	0.35 J	0.83	5.0 J	3.6	0.260	0.51 J	0.35	64	100	100	500	1,000

Notes: All units in parts per million (ppm)

ND Analyte not detected

- Not Applicable or sample not tested for this analyte

J Estimated Concentration

B Anaalyte detected in method blank

κ Result is reported as Benzo(b)fluoranthene

E Results exceeded calibration range

T Result is Tentatively Identifies Compound and an estimated value

Analyte detected

Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

Reported concentration greater than or equal to the NYSDEC Residential SCO

Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

Reported concentration greater than or equal to the NYSDEC Commercial SCO

Reported concentration greater than or equal to the NYSDEC Industrial SCO

TABLE 5 SUMMARY OF SOIL ANALYTICAL RESULTS FEBRUARY 2023 PHASE II ESA



		•	3 - Sample Identification, Sample urface (bgs), and Sample Date	NYSDEC Soil Cleanup Objectives (SCOs)								
Parameter Tested	BH-16	BH-17										
	0-4	0-4				Restricted						
		1/13	/2023	Unrestricted	Residential	Residential	Commerical	Industrial				
			METALS/INOR									
Arsenic	62.2	11.5		13	16	16	16	16				
Barium	603	161		410	410	410	410	10,000				
Beryllium	0.6	1.20		4.4	8.8	43	670	750				
, Cadmium	1.6	0.45		2.5	2.5	2.5	3.7	4.4				
Chromium	145.0	51.9		30	30	110	1,700	2,000				
Copper	114.0	37.1		50	280	280	280	10,000				
Lead	714	12		63	400	400	1,000	3,900				
Manganese	1910 B	9770 B		1,600	2,000	2,000	10,000	10,000				
Mercury	0.30 B	0.008 J B		0.18	0.26	0.26	1.1	1.1				
Nickel	44.1	22.9		30	44	210	320	3,400				
Selenium	3.9 J	3.5 J		4	22	110	1,700	2,000				
Zinc	376	41.7		109	1,300	6,600	10,000	10,000				
			SEMI-VOLATILE ORGANIC CO	OMPOUNDS (SV	OCs)							
Acenaphthene	ND	ND		20	100	100	500	1,000				
Acenaphthylene	ND	ND		100	100	100	500	1,000				
Anthracene	ND	ND		100	100	100	500	1,000				
Benzo(a)anthracene	2.3 J	ND		1	1	1.4	37	37				
Benzo(a)pyrene	3.1 J	ND		1	1	1	3.7	3.7				
Benzo(b)fluoranthene	ND	ND		1	1	1.4	37	37				
Benzo(g,h,i)perylene	ND	ND		0.64	1.2	4.9	47	78				
Benzo(k)fluoranthene	ND	ND		0.8	1.2	4.9	47	78				
Chrysene	ND	ND		1	1.2	4.9	47	78				
Dibenz(a,h)anthracene	ND	ND		0.33	0.33	0.33	3.7	3.7				
Dibenzofuran	ND	ND		2.1	4.2	18	180	290				
Fluoranthene	6.0 J	0.027 J		85	100	100	500	1,000				
Fluorene	ND	ND		30	100	100	500	1,000				
Indeno(1,2,3-cd)pyrene	ND	ND		0.5	0.5	1.4	37	37				
Naphthalene	ND	ND		12	84	100	500	1,000				
Phenanthrene	4.8 J	ND		1.1	1.2	4.9	47	78				
Pyrene	4.5 J	0.027 J]	64	100	100	500	1,000				

Notes: All units in parts per million (ppm)

ND Analyte not detected

- Not Applicable or sample not tested for this analyte

J Estimated Concentration

B Analyte detected in method blank

K Result is reported as Benzo(b)fluoranthene

E Results exceeded calibration range

Analyte detected

Reported concentration greater than or equal to the NYSDEC Unrestricted SCO

Reported concentration greater than or equal to the NYSDEC Residential SCO

Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO

Reported concentration greater than or equal to the NYSDEC Commercial SCO

Reported concentration greater than or equal to the NYSDEC Industrial SCO

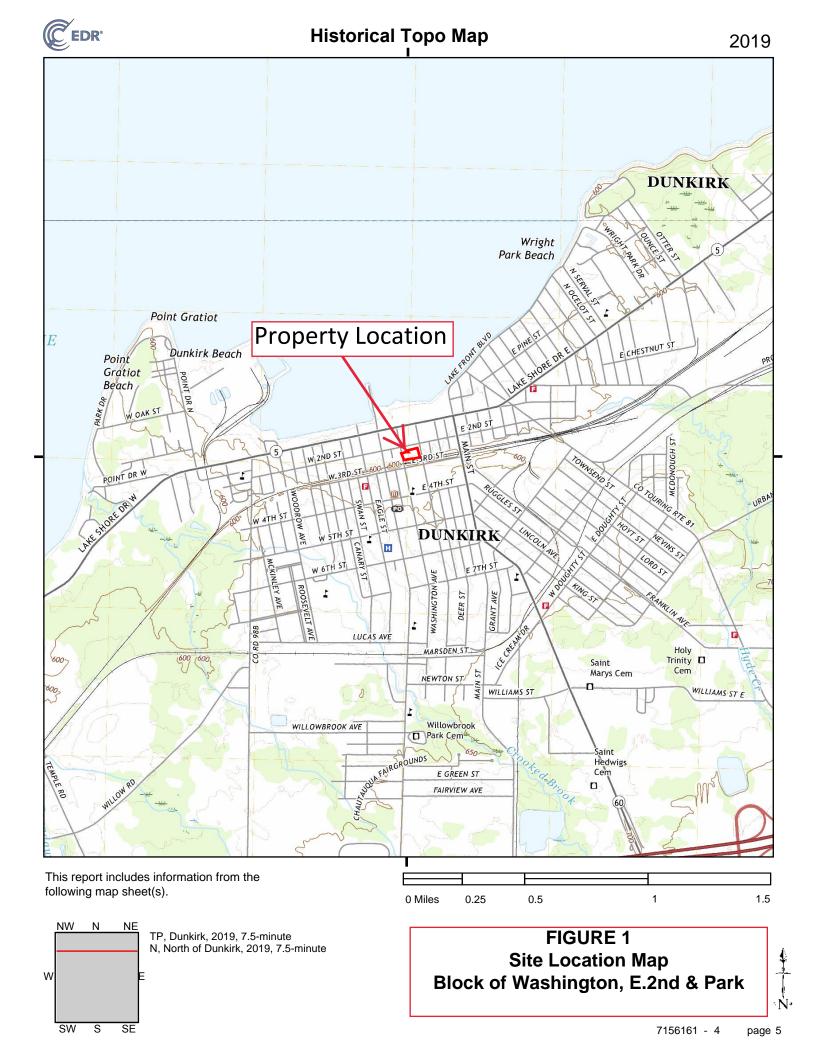
TABLE 6
BORING-MONITORING WELL-VAPOR GPS COORDINATES

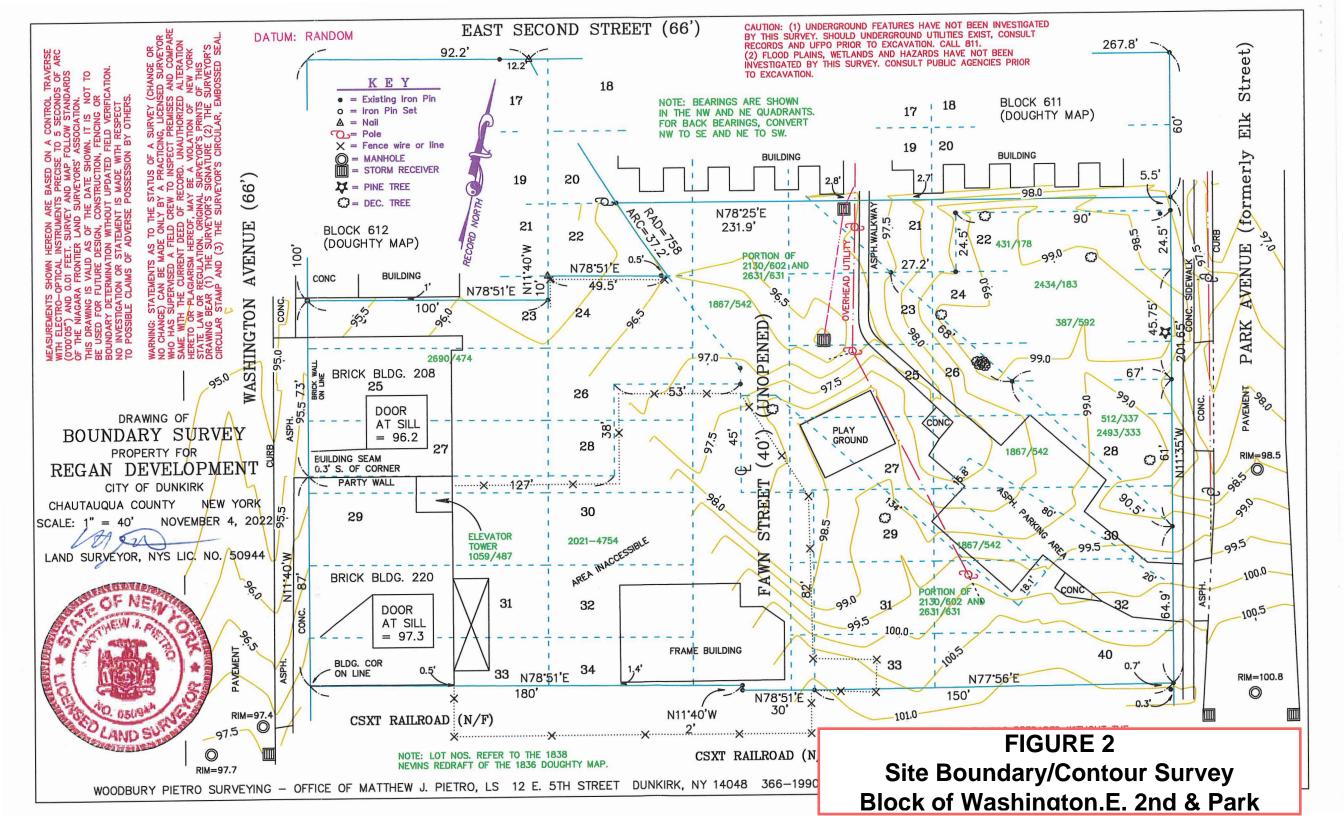
RI-BH-2	Sample Identification	Coordinates-North American Datum 1983							
RI-BH-1		Latitude	Longitude						
RI-BH-2	Borings								
RI-BH-3 42.485869 -79.333167 RI-BH-4 42.485936 -79.333192 RI-BH-5 42.485994 -79.332969 RI-BH-6 42.485906 -79.333086 RI-BH-7 42.485744 -79.333172 RI-BH-8 42.48565 -79.332753 RI-BH-9 42.485825 -79.33275 RI-BH-10 42.485931 -79.33275 RI-BH-11 42.485931 -79.33297 RI-BH-12 42.48575 -79.332247 RI-BH-13 42.485766 -79.33297 RI-BH-16 42.486017 -79.33297 RI-BH-16 42.486017 -79.3322 Surface Samples SS-1 42.486108 -79.33292 SS-2 42.485931 -79.33292 SS-3 42.485931 -79.33292 SS-4 42.485931 -79.33292 SS-5 42.486189 -79.332167 SS-5 42.486189 -79.33228 SS-7 42.48576 -79.33228 SS-7 42.48577 -79.33228 SS-7 42.485794 -79.33292 SS-7 42.485794 -79.33228 SS-7 42.485794 -79.33228 SS-7 42.485794 -79.33228 SS-7 42.486189 -79.33228 SS-7 42.486189 -79.33228 SS-7 42.486199 -79.332742 SS-9 SS-9 42.486199 -79.332742 SS-9 SS-9 42.486199 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.33314 RI-MW-2 42.485592 -79.3332794 RI-MW-3 RI-MW-4 42.486156 -79.332794 RI-MW-4 42.48653 -79.332794 RI-MW-4 42.48653 -79.332794	RI-BH-1	42.48566	-79.33304						
RI-BH-4 42.485936 -79.333192 RI-BH-5 42.485994 -79.332969 RI-BH-6 42.485906 -79.333086 RI-BH-7 42.485744 -79.333172 RI-BH-8 42.48565 -79.332753 RI-BH-9 42.485825 -79.33275 RI-BH-10 42.485067 -79.332557 RI-BH-11 42.485931 -79.332597 RI-BH-12 42.485675 -79.332247 RI-BH-13 42.48596 -79.332247 RI-BH-14 42.48596 -79.332297 RI-BH-15 42.486175 -79.332403 RI-BH-16 42.486017 -79.3322 Surface Samples SS-1 42.486189 -79.332742 SS-2 42.485794 -79.332742 SS-5 42.486189 -79.33298 SS-7 42.485767 -79.33298 SS-7 42.485794 -79.33298 SS-7 42.485794 -79.33298 SS-7 42.485794 -79.33298 STP-1 42.486108 -79.33298 STP-1 42.486189 -79.33298 SS-7 42.485794 -79.33298 SS-7 42.485794 -79.33298 SS-7 42.485795 -79.33258 STP-1 42.486108 -79.33298 STP-1 42.486189 -79.33258 STP-2 42.485767 -79.33258 STP-1 42.486189 -79.33258 STP-2 42.485931 -79.33258 STP-2 42.485931 -79.33258 STP-1 42.486189 -79.33258 STP-1 42.486189 -79.33258 STP-2 42.48595 -79.332167 STP-3 57P-3 42.48519 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.33314 RI-MW-2 42.485592 -79.33314 RI-MW-3 42.486253 -79.332794 RI-MW-4 42.486253 -79.332794 RI-MW-3 42.486253 -79.332231	RI-BH-2	42.485722	-79.333383						
RI-BH-5	RI-BH-3	42.485869	-79.333167						
RI-BH-6	RI-BH-4	42.485936	-79.333192						
RI-BH-7	RI-BH-5	42.485994	-79.332969						
RI-BH-8	RI-BH-6	42.485906	-79.333086						
RI-BH-9	RI-BH-7	42.485744	-79.333172						
RI-BH-10	RI-BH-8	42.48565	-79.332753						
RI-BH-11	RI-BH-9	42.485825	-79.332836						
RI-BH-12	RI-BH-10	42.486067	-79.33275						
RI-BH-13	RI-BH-11	42.485931	-79.332597						
RI-BH-14	RI-BH-12	42.485675	-79.332247						
RI-BH-15	RI-BH-13	42.485786	-79.332297						
RI-BH-16 42.486017 -79.3322 Surface Samples SS-1 42.486108 -79.332992 SS-2 42.485986 -79.333014 SS-3 42.48575 -79.332742 SS-4 42.48575 -79.332167 SS-5 42.486189 -79.332928 SS-6 42.485794 -79.332928 SS-7 42.486028 -79.332258 SS-8 42.486028 -79.332258 SS-9 42.486108 -79.332292 STP-1 42.486108 -79.332742 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332261 Overburden Wells RI-MW-1 42.485992 -79.333314 RI-MW-2 -79.3332794	RI-BH-14	42.485956	-79.332456						
Surface Samples SS-1 42.486108 -79.332992 SS-2 42.485986 -79.333014 SS-3 42.485931 -79.332742 SS-4 42.48575 -79.332167 SS-5 42.486189 -79.332928 SS-6 42.485794 -79.332928 SS-7 42.485767 -79.332528 SS-8 42.486028 -79.332258 Step-Out Samples STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.486156 -79.332794 RI-MW-3 42.486156 -79.332231	RI-BH-15	42.486175	-79.332403						
SS-1 42.486108 -79.332992 SS-2 42.485986 -79.333014 SS-3 42.485931 -79.332742 SS-4 42.48575 -79.332167 SS-5 42.486189 -79.332561 SS-6 42.485794 -79.332928 SS-7 42.485767 -79.332528 SS-8 42.486028 -79.332258 STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485992 -79.333025 RI-MW-2 42.485972 -79.333794 RI-MW-3 42.486156 -79.332231	RI-BH-16	42.486017	-79.3322						
SS-2 42.485986 -79.333014 SS-3 42.485931 -79.332742 SS-4 42.48575 -79.332167 SS-5 42.486189 -79.332561 SS-6 42.485794 -79.332928 SS-7 42.485767 -79.332528 SS-8 42.486028 -79.332528 STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.48592 -79.333025 RI-MW-2 42.485972 -79.333794 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	Surface Samples		•						
SS-3 42.485931 -79.332742 SS-4 42.48575 -79.332167 SS-5 42.486189 -79.332561 SS-6 42.485794 -79.332928 SS-7 42.485767 -79.332528 SS-8 42.486028 -79.332258 STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.48592 -79.333025 RI-MW-2 42.485972 -79.333794 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	SS-1	42.486108	-79.332992						
SS-4 42.48575 -79.332167 SS-5 42.486189 -79.332561 SS-6 42.485794 -79.332928 SS-7 42.485767 -79.332528 SS-8 42.486028 -79.332258 Step-Out Samples STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.48592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	SS-2	42.485986	-79.333014						
SS-5 42.486189 -79.332561 SS-6 42.485794 -79.332928 SS-7 42.485767 -79.332528 SS-8 42.486028 -79.332258 Step-Out Samples STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.48592 -79.333025 RI-MW-2 42.485972 -79.33314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	SS-3	42.485931	-79.332742						
SS-6 42.485794 -79.332928 SS-7 42.485767 -79.332528 SS-8 42.486028 -79.332258 Step-Out Samples STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.48592 -79.333025 RI-MW-2 42.485972 -79.33314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	SS-4	42.48575	-79.332167						
SS-7	SS-5	42.486189	-79.332561						
SS-8 42.486028 -79.332258 Step-Out Samples 42.486108 -79.332992 STP-1 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	SS-6	42.485794	-79.332928						
Step-Out Samples STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	SS-7	42.485767	-79.332528						
STP-1 42.486108 -79.332992 STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	SS-8	42.486028	-79.332258						
STP-2 42.485931 -79.332742 STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	Step-Out Samples								
STP-3 42.48575 -79.332167 STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	STP-1	42.486108	-79.332992						
STP-4 42.486189 -79.332561 Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	STP-2	42.485931	-79.332742						
Overburden Wells RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	STP-3	42.48575	-79.332167						
RI-MW-1 42.485592 -79.333025 RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	STP-4	42.486189	-79.332561						
RI-MW-2 42.485972 -79.333314 RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	Overburden Wells								
RI-MW-3 42.486156 -79.332794 RI-MW-4 42.486253 -79.332231	RI-MW-1	42.485592	-79.333025						
RI-MW-4 42.486253 -79.332231	RI-MW-2	42.485972	-79.333314						
	RI-MW-3	42.486156	-79.332794						
RI-MW-5 42.485753 -79.332147	RI-MW-4	42.486253	-79.332231						
	RI-MW-5	42.485753	-79.332147						

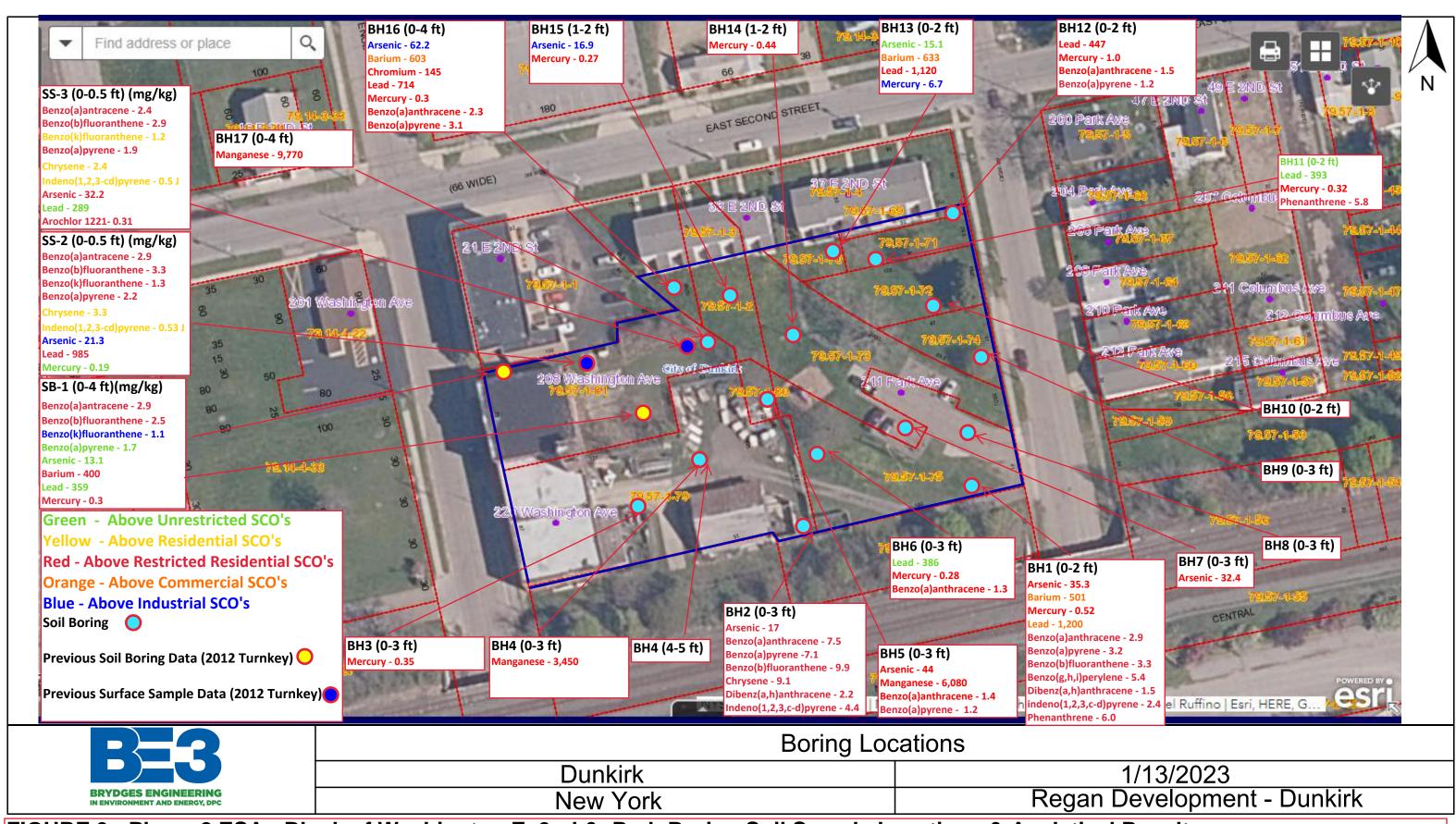
Bedrock Wells		
RI-BW-1	42.486206	-79.332242
RI-BW-2	42.485753	-79.332211
RI-BW-3	42.485981	-79.333261
Vapor Pobes		•
RI-VP-1	42.485669	-79.332419
RI-VP-2	42.485981	-79.333264
RI-VP-3	42.485642	-79.332744
RI-VP-4	42.485814	-79.332853
RI-VP-5	42.485797	-79.332281
RI-VP-6	42.486106	-79.332303
RI-VP-7	42.486147	-79.332717
RI-VP-8	42.485647	-79.333308

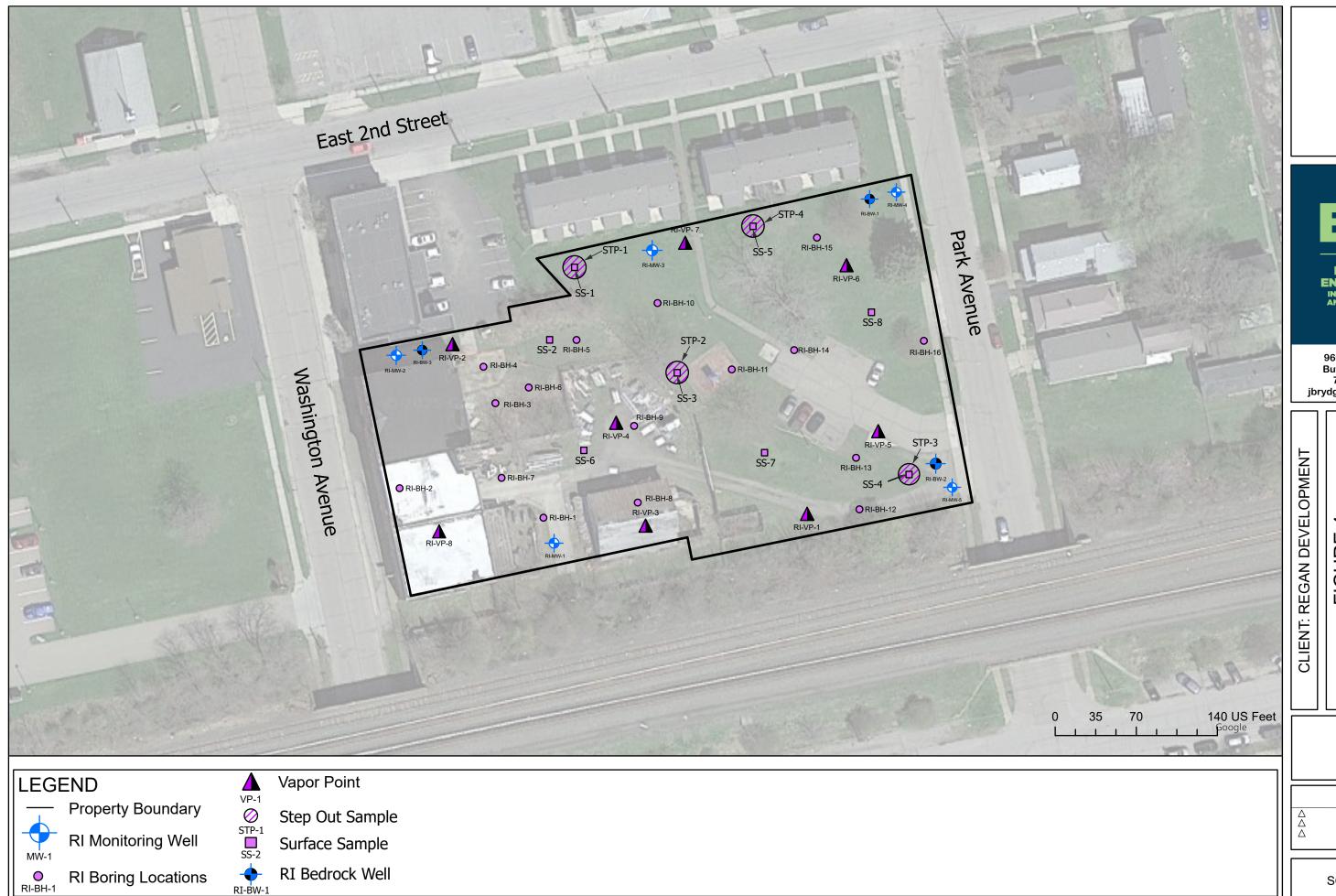
Figures











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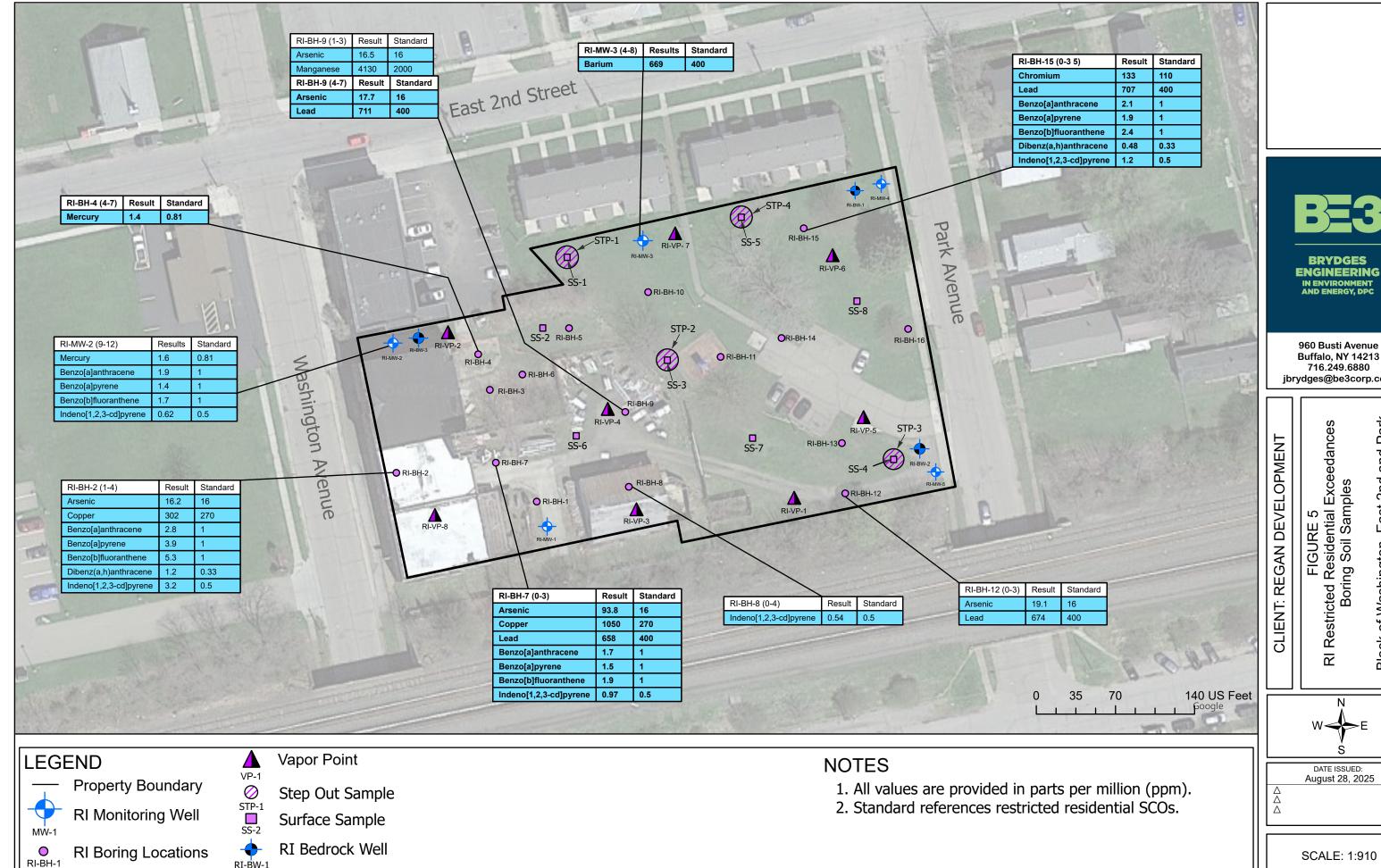
960 Busti Avenue Buffalo, NY 14213 716.249.6880 jbrydges@be3corp.com

FIGURE 4
RI Sampling Locations

Block of Washington, East 2nd and Park Dunkirk, NY 14048

W E

DATE ISSUED: July 31, 2025



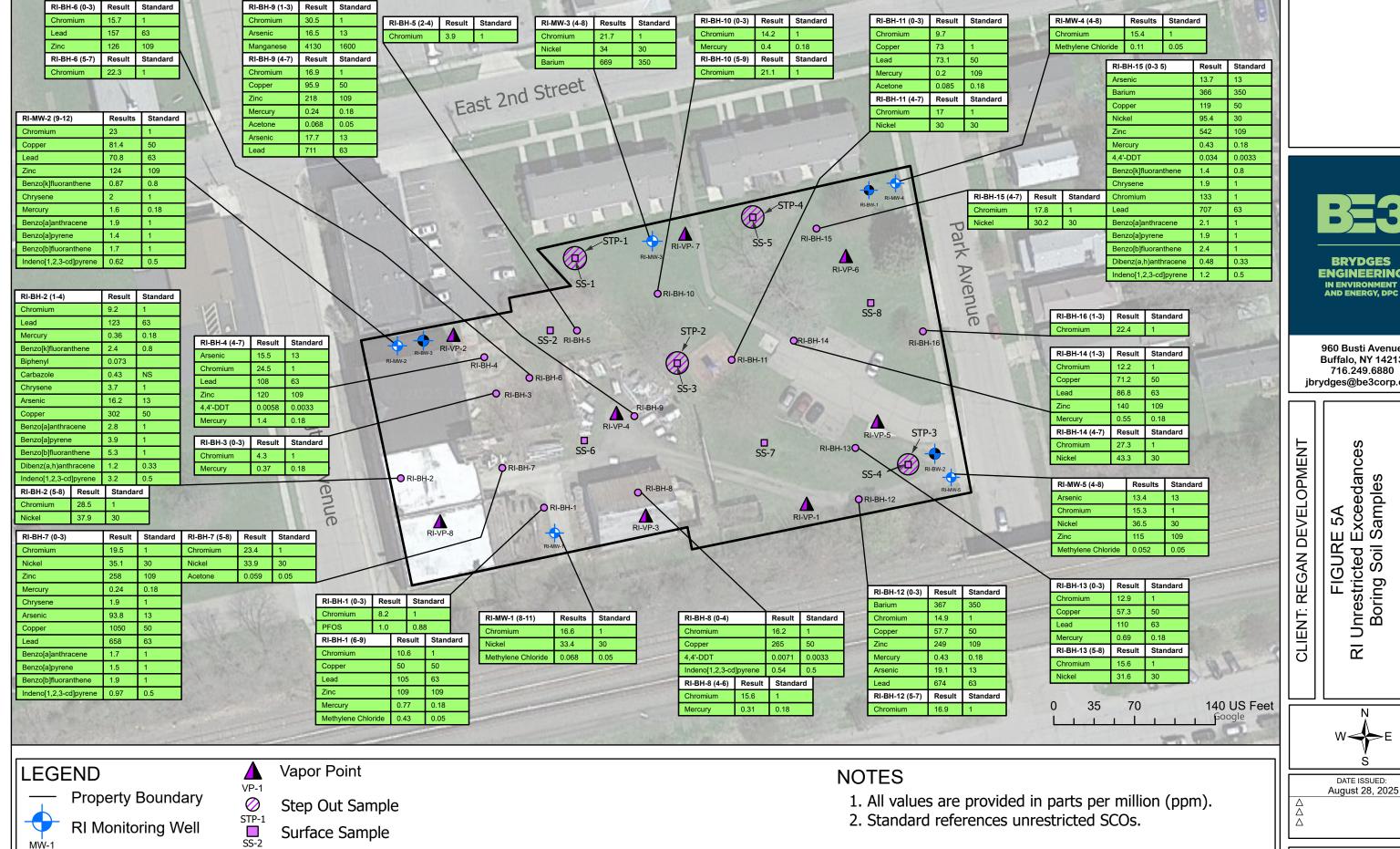
BRYDGES

960 Busti Avenue

Buffalo, NY 14213 716.249.6880 jbrydges@be3corp.com

Block of Washington, East 2nd and Park Dunkirk, NY 14048

DATE ISSUED: August 28, 2025



RI Bedrock Well

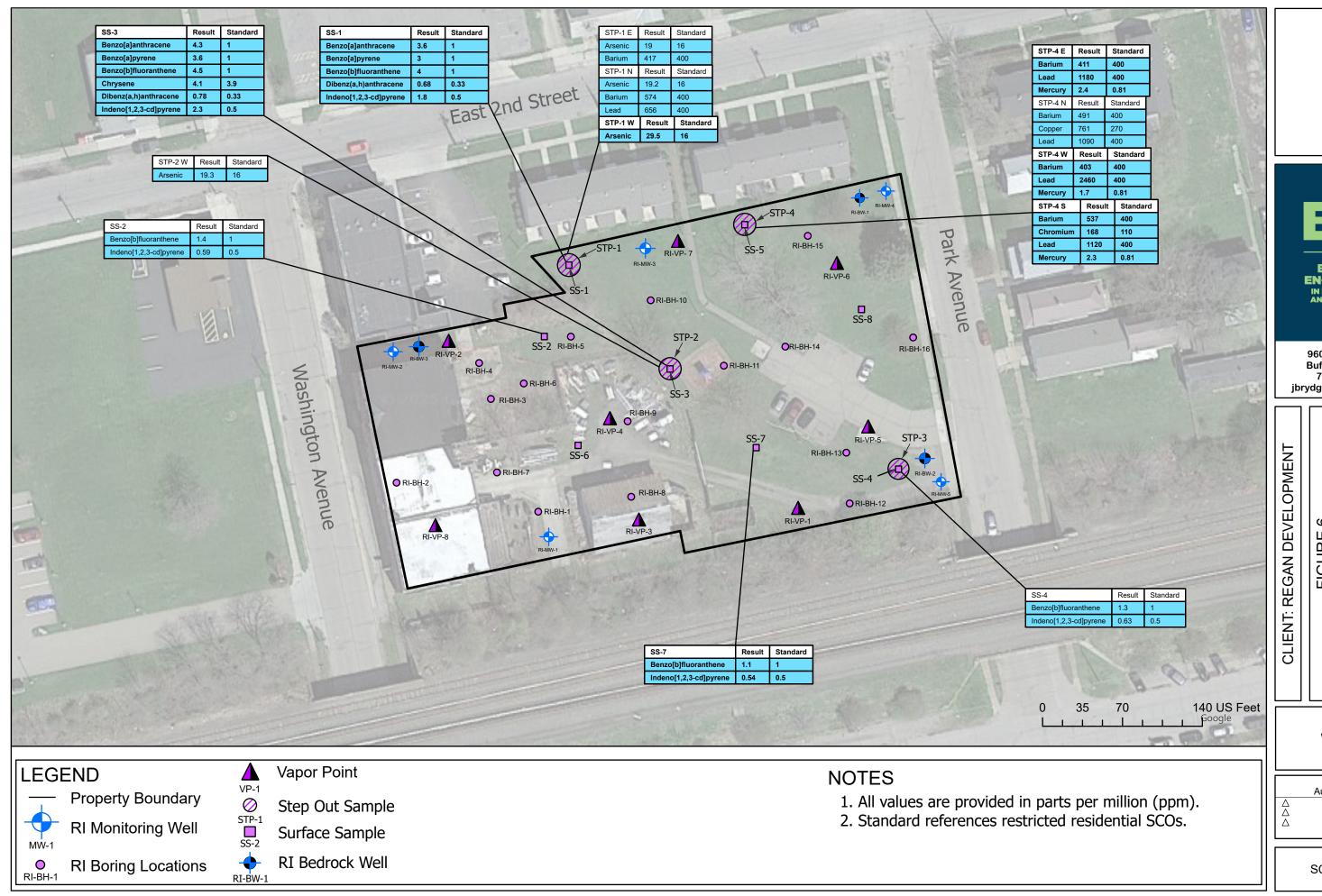
RI Boring Locations

RI-BH-1

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Block of Washington, East 2nd and Park Dunkirk, NY 14048



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FIGURE 6
Restricted Residential Soil Exceedances
Surface and Step-out Samples

Block of Washington, East 2nd and Park Dunkirk, NY 14048

W E

DATE ISSUED: August 28, 2025



RI-BH-1

Property Boundary RI Monitoring Well

RI Boring Locations

STP-1 SS-2 Step Out Sample

Surface Sample

RI Bedrock Well

- 1. All values are provided in parts per million (ppm).
- 2. Standard references unrestricted SCOs.

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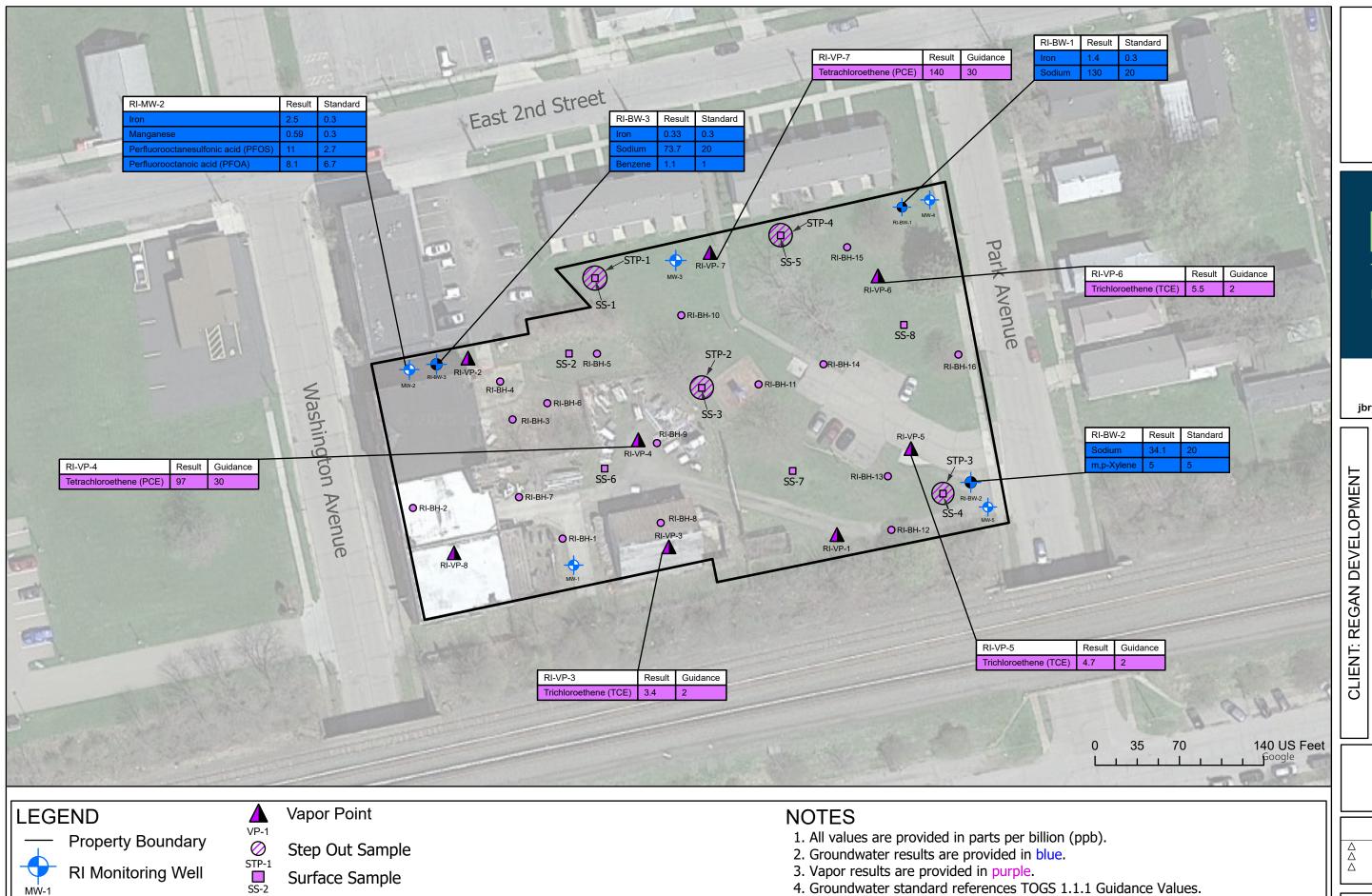
CLIENT: REGAN DEVELOPMENT

FIGURE 6A RI Unrestricted Soil Exceedances Surface and Step-out Samples

Block of Washington, East 2nd and Park Dunkirk, NY 14048



DATE ISSUED: August 28, 2025



MW-1

RI-BH-1

RI Boring Locations

RI Bedrock Well

RI-BW-1

4. Groundwater standard references TOGS 1.1.1 Guidance Values.

5. Vapor result is considered elevated since it exceeds the Indoor Air Guidance

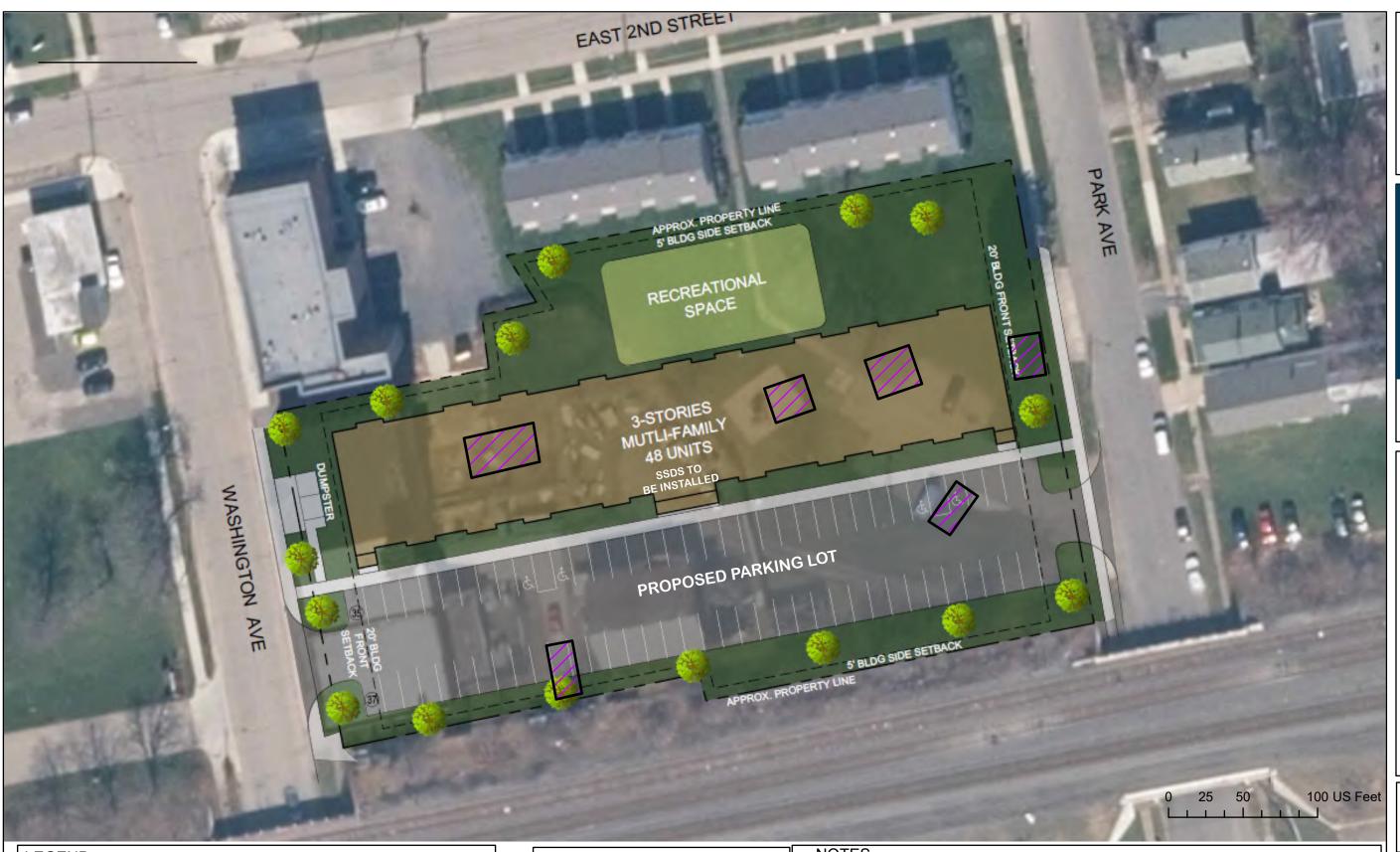
Value for the listed compound (NYSDOH Soil Vapor Intrusion Guidance).

BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, DPC 960 Busti Avenue Buffalo, NY 14213 716.249.6880 jbrydges@be3corp.com Sample

FIGURE 7
RI Groundwater and Soil Vapor
Guidance Exceedances

Block of Washington, East 2nd and Park Dunkirk, NY 14048

DATE ISSUED: August 28, 2025



LEGEND

Property Boundary

Potential Areas for Reuse

Proposed Asphalt Hardscape

Proposed Building Footprint

Proposed Stone/Gras Recreation Area

Proposed Lawn/Tree Greenspace

SQUARE FOOTAGE (SF) BREAKDOWN

1. Greenspace Recreation Area: 5,000 SF Lawn/Landscape Areas: 15,300 SF

2. Hardscape Building: 17,400 SF Asphalt Parking Lot: 21,500 SF

NOTES

1.) Greenspace Remedial Approach

-Remove approximately 2 feet of hardscape and/or underlying soils. -Replace with 2 +/- feet of clean soils.

2.) Hardscape Remedial Approach

-Soils beneath the areas of proposed new development buildings and hardscape shall be cut/filled to the depth of new building foundations/slabs or hardscape to meet new development grades. Approximate average cuts and fills are as follows: Asphalt= -1.5 ft, Slabs= +3.25 ft, Foundations= -5 ft.
-Replace with building foundations or hardscape.

3.) Soil cover must meet a minimum of 2 feet of clean soil or hardscape meeting NYSDEC restricted residential criteria.

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Alternative 1 Restricted Residential Remediation

Block of Washington, East 2nd and Park Dunkirk, NY 14048

CLIENT: REGAN DEVELOPMENT FIGURE 9

DATE ISSUED: September 4, 2025



LEGEND

- Property Boundary
- Proposed Asphalt Hardscape
- Proposed Building Footprint
- Proposed Stone/Gras Recreation Area
- Proposed Lawn/Tree Greenspace

SQUARE FOOTAGE (SF) BREAKDOWN

- 1. Greenspace
- Recreation Area: 5,000 SF Lawn/Landscape Areas: 15,300 SF 2. Hardscape

Building: 17,400 SF Asphalt Parking Lot: 21,500 SF

NOTES

- 1.) Remedial Approach (same in greenspace and hardscape areas) -Remove all soil/fill across the Site where soil concentrations exceed the unrestricted use SCOs or to bedrock (whichever is shallower) -Backfill all areas with clean soil to meet new development grades
- 2.) Imported soil must meet NYSDEC unrestricted use criteria.

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CLIENT: REGAN DEVELOPMENT

Alternative 2 Unrestricted Use Remediation FIGURE 10

Block of Washington, East 2nd and Park Dunkirk, NY 14048

DATE ISSUED: September 4, 2025

Appendices



Appendix A Daily Field Reports





	DAILY FIELD REPORT									
Date:	Friday, May 3	0, 2025								
Site Name:	2nd & Washir	ngton								
Location:	211 Park Ave	211 Park Avenue, Dunkirk NY, 14048								
Contractor/Sub-Contractor:	Sessler Envir	Sessler Environmental								
Weather Conditions:	Sunny	60 °F	WSW 4 MPH							
Description of Work Performed:										
8:30 Arrived on site and met with Chris (Sessler Environme	ntal). Michael Keller	with DEC onsite aswell.							
8:35 Set up upwind downwind air monito	ors.									
8:45 Began completing vapor points sta	rting with VP-5.									
10:00 Started borings at BH-9 and worked	d in a counter clock	wise direction.								
12:30 Started lunch										
13:00 Resume with sampling well screen intervals starting with RI-MW-2.										
16:30 Completed all exterior soil samples	and vapor probe lo	cations. Vapor probe	es capped.							
End of Day Samples delivered to laboratory.										
Problems/Observations:										
Health and Safety Concerns:	None.									
Contractor Work Force:	1 driller, 1 hel	1 driller, 1 helper								
Contractor Equipment	Geoprobe (M	Geoprobe (Model 7720DT)								
Attachments:Photolog, Air Quality Data, W	ork Location Map									
Inspectors Name	Paul Staub	Paul Staub								



	PHOTO LOG
Date:	Friday, May 30, 2025
Site Name:	2nd & Washington



1. RI-VP-5 location, facing SE



3. RI-BH-9 location, facing NE.



2. RI-VP-6 location, facing E.



4. RI-BH-7 location, facing W.



COMMUNITY AIR MONITORING PROGRAM DATA

Date:		Friday, May 30, 2025							
Site Name:		2nd & Washington							
Upwind Da	ata		Delta						
Time	PM 10 - 15 min AVG (μg/m³)	Time	PM 10 - 15 min AVG (μg/m³)	VOC	PM 10 - 15m AVG (μg/m³)				
5/30/2025 9:30	3	5/30/2025 9:30		0	-3				
5/30/2025 9:45	2.7	5/30/2025 9:45	4.9	0	2.2				
5/30/2025 10:00	4.5	5/30/2025 10:00	6.4	0	1.9				
5/30/2025 10:15	3	5/30/2025 10:15	5.3	0	2.3				
5/30/2025 10:30	3.6	5/30/2025 10:30	5.8	0	2.2				
5/30/2025 10:45	2.7	5/30/2025 10:45	5.2	0	2.5				
5/30/2025 11:00	2.7	5/30/2025 11:00	5.5	0	2.8				
5/30/2025 11:15	2.1	5/30/2025 11:15	6.8	0	4.7				
5/30/2025 11:30	3.4	5/30/2025 11:30	5.1	0	1.7				
5/30/2025 11:45	3.1	5/30/2025 11:45	5.1	0	2				
5/30/2025 12:00	3.7	5/30/2025 12:00	6.5	0	2.8				
5/30/2025 12:15	3.3	5/30/2025 12:15	6	0	2.7				
5/30/2025 12:30	3.2	5/30/2025 12:30	6.8	0	3.6				
5/30/2025 12:45	3.5	5/30/2025 12:45	6.7	0	3.2				
5/30/2025 13:00	3	5/30/2025 13:00	5.9	0	2.9				
5/30/2025 13:15	2.8	5/30/2025 13:15	6.3	0	3.5				
5/30/2025 13:30	2.7	5/30/2025 13:30	5.2	0	2.5				
5/30/2025 13:45	2.1	5/30/2025 13:45	5.7	0	3.6				
5/30/2025 14:00	2.9	5/30/2025 14:00	5.2	0	2.3				
5/30/2025 14:15	5.1	5/30/2025 14:15	5.5	0	0.4				
5/30/2025 14:30	2.4	5/30/2025 14:30	4.5	0	2.1				
5/30/2025 14:45	2.5	5/30/2025 14:45	4.4	0	1.9				
5/30/2025 15:00	2.4	5/30/2025 15:00		0	2.8				
**Particulate Threshold PM 10 15minute average = 100µg/m³ above background									



WORK LOCATION MAP

Date: Friday, May 30, 2025
Site Name: 2nd & Washington



Legend		
UW	Upwind Air Monitor Location	
DW	Downtown Air Monitor Location	
	BCP Site Boundary	



DAILY FIELD REPORT				
Date:	Monday, Jun	Monday, June 2, 2025		
Site Name: 2nd & Washington				
Location:	211 Park Ave	enue, Dunkirk NY, 140	048	
Contractor/Sub-Contractor:	Sessler Envi	Sessler Environmental		
Weather Conditions:	Sunny	67 °F	WSW 6 MPH	
Description of Work Performed:				
Arrived on site and met with Chris (Sessler Envir	ronmental). Mic	chael Keller with DEC	onsite aswell.	
Set up upwind downwind air monitors.				
Began augering overburden well locations. All cu	uttings stored in	n onsite 55-gallon dru	ms.	
Final well depths were recorded.				
All 5 overburden wells were installed.				
End of day spent cleaning equipment.				
Problems/Observations:				
Health and Safety Concerns:	None.			
Contractor Work Force:	1 driller, 1 helper			
Contractor Equipment	Geoprobe (M	lodel 7720DT) with au	uger attachment.	
Attachments : Air Quality Data, Work Location M	lap			
Inspectors Name	Travis Numa	n		



COMMUNITY AIR MONITORING PROGRAM DATA

Date:		Monday, June 2, 2025	5		
Site Name:		2nd & Washington			
Upwind Data			Delta		
Time	PM 10 - 15 min AVG (μg/m³)	Time	PM 10 - 15 min AVG (μg/m³)	VOC	PM 10 - 15m AVG (μg/m³)
6/2/2025 9:15	0	6/2/2025 9:15	0	0	0
6/2/2025 9:30	1.4	6/2/2025 9:30	3	0	1.6
6/2/2025 9:45	2.1	6/2/2025 9:45	1.6	0	-0.5
6/2/2025 10:00	1.6	6/2/2025 10:00	3.2	0	1.6
6/2/2025 10:15	1.2	6/2/2025 10:15	3	0	1.8
6/2/2025 10:30	2.4	6/2/2025 10:30	2.5	0	0.1
6/2/2025 10:45	1.4	6/2/2025 10:45	1.9	0	0.5
6/2/2025 11:00	1.7	6/2/2025 11:00	3.6	0	1.9
6/2/2025 11:15	1.6	6/2/2025 11:15	4.2	0	2.6
6/2/2025 11:30	2.3	6/2/2025 11:30	4.3	0	2
6/2/2025 11:45	2.4	6/2/2025 11:45	3.6	0	1.2
6/2/2025 12:00	2.7	6/2/2025 12:00	4.7	0	2
6/2/2025 12:15	2.4	6/2/2025 12:15	5.1	0	2.7
6/2/2025 12:30	2.4	6/2/2025 12:30	4.4	0	2
6/2/2025 12:45	2.1	6/2/2025 12:45	5.3	0	3.2
6/2/2025 13:00	2.4	6/2/2025 13:00	4.2	0	1.8
6/2/2025 13:15	3.8	6/2/2025 13:15	5.9	0	2.1
6/2/2025 13:30	8.1	6/2/2025 13:30		0	-2.2
6/2/2025 13:45	3.5	6/2/2025 13:45	5.3	0	1.8
6/2/2025 14:00	2.3	6/2/2025 14:00	4.6	0	2.3
6/2/2025 14:15	3.8	6/2/2025 14:15	4.7	0	0.9
6/2/2025 14:30	3.4	6/2/2025 14:30	5.1	0	1.7
6/2/2025 14:45	2.3	6/2/2025 14:45	4.1	0	1.8
6/2/2025 15:00	12.9	6/2/2025 15:00	4.1	0	-8.8
6/2/2025 15:15	8.5	6/2/2025 15:15	3.7	0	-4.8
6/2/2025 15:30	13.8	6/2/2025 15:30		0	-10.5
6/2/2025 15:45	18.1	6/2/2025 15:45	2.8	0	-15.3
**Partio	culate Thresho	ld PM 10 15minute a	verage = 100µg/	m³ above backgro	und



WORK LOCATION MAP

Date: Monday, June 2, 2025
Site Name: 2nd & Washington



Legend		
UW	Upwind Air Monitor Location	
DW	Downtown Air Monitor Location	
	BCP Site Boundary	



DAILY FIELD REPORT				
Date:	Tuesday, June 3, 2025			
Site Name:	2nd & Washington			
Location:	211 Park Avenue, Dunkirk NY, 14048			
Contractor/Sub-Contractor:	Sessler Environmental			
Weather Conditions:	Sunny 75 °F WSW 3 MPH			
Description of Work Performed:				
Arrived on site and met with Chris (Sessler Enviro	ronmental). Michael Keller with DEC onsite as well.			
Set up upwind downwind air monitors.				
Began with RI-BH-8. Crew cut a hole in wooden f	floor to expose soil for geoprobing.			
RI-BH-1 moved east outside of building footprint	due to access constraints.			
Crew cored concrete to expose soils in RI-BH-2 le	location for geoprobing.			
RI-MW-2 was the only overburden well found to be producing water during development. Further purging and sampling will occur when bedrock wells are installed.				
All samples packaged and dropped off to the labo	oratory at the end of the day.			
Problems/Observations:	RI DEVIATIONS: RI-BH-1 location moved east just outside of the building due to accessibility issues. 4 of 5 overburden wells			
	were found to be dry during development. Bedrock wells will be			
	installed in consultation with DEC.			
Health and Safety Concerns:	None.			
Contractor Work Force:	1 driller, 1 helper			
Contractor Equipment	Geoprobe (Model 7720DT) with auger attachment.			
Attachments : Air Quality Data, Work Location Map				
Inspectors Name	Travis Numan and Jim Hull			



COMMUNITY AIR MONITORING PROGRAM DATA

Date:		Tuesday, June 3, 202	5		
Site Name:		2nd & Washington			
Upwind Da	ata		Downwind Data		Delta
Time	PM 10 - 15 min AVG (μg/m³)	Time	PM 10 - 15 min AVG (μg/m³)	VOC	PM 10 - 15m AVG (μg/m³)
6/3/2025 8:45	0	6/3/2025 8:45		0	0
6/3/2025 9:00	10.4	6/3/2025 9:00	7.4	0	-3
6/3/2025 9:15		6/3/2025 9:15		0	1
6/3/2025 9:30	2.6	6/3/2025 9:30	3.5	0	0.9
6/3/2025 9:45	3.9	6/3/2025 9:45		0	0.3
6/3/2025 10:00	3.4	6/3/2025 10:00	3.7	0	0.3
6/3/2025 10:15	4.6	6/3/2025 10:15	4.6	0	0
6/3/2025 10:30	3.5	6/3/2025 10:30	4.3	0	0.8
6/3/2025 10:45	3.7	6/3/2025 10:45	5.5	0	1.8
6/3/2025 11:00	3.5	6/3/2025 11:00	6.2	0	2.7
6/3/2025 11:15	3.4	6/3/2025 11:15	4.9	0	1.5
6/3/2025 11:30	5	6/3/2025 11:30	5.3	0	0.3
6/3/2025 11:45	4.8	6/3/2025 11:45	4.9	0	0.1
6/3/2025 12:00	5.5	6/3/2025 12:00	6.4	0	0.9
6/3/2025 12:15	5.1	6/3/2025 12:15	5.9	0	0.8
6/3/2025 12:30				0	1
**Particulate Threshold PM 10 15minute average = 100μg/m³ above background					



WORK LOCATION MAP

Date: Tuesday, June 3, 2025
Site Name: 2nd & Washington



Legend		
UW	Upwind Air Monitor Location	
DW	Downtown Air Monitor Location	
	BCP Site Boundary	



DAILY FIELD REPORT				
Date:	Thursday, Aug	gust 7, 2025		
Site Name:	2nd & Washington			
Location:	211 Park Ave	nue, Dunkirk NY, 14048		
Contractor/Sub-Contractor:	BE3			
Weather Conditions:	Hazy	80 °F	N 8 MPH	
Description of Work Performed:	· · · · · · ·			
Arrived on site and set up upwind and downwind	air monitors.			
Michael Keller (DEC PM) on site.				
Began Collecting surface samples starting with S	S-6.			
All surface samples collected.				
Drilling contractor will not be able to make it so sit	te until Monday	8/11 due to delays.		
All samples labeled and packaged.				
Began mobilization to 160-164 E 4th Street BCP site.				
All samples delivered to lab at the end of the day.				
Problems/Observations:				
Health and Safety Concerns:	None.			
contractor Work Force: N/a				
Contractor Equipment	Shovel			
Attachments : Air Quality Data, Work Location Map				
Inspectors Name	Paul Staub			



COMMUNITY AIR MONITORING PROGRAM DATA

Date: Thur		Thursday, August 7, 2	hursday, August 7, 2025			
Site Name:		2nd & Washington				
Upwind Data		Downwind Data			Delta	
Time	PM 10 - 15 min AVG (μg/m³)	Time	PM 10 - 15 min AVG (μg/m³)	VOC	PM 10 - 15m AVG (μg/m³)	
8/7/2025 10:45	3.9	8/7/2025 10:45	16.5	0	12.6	
8/7/2025 11:00	4.6	8/7/2025 11:00	16.7	0	12.1	
8/7/2025 11:15	3.8	8/7/2025 11:15	16.4	0	12.6	
8/7/2025 11:30	3.4	8/7/2025 11:30	17.6	0	14.2	
8/7/2025 11:45	2.7	8/7/2025 11:45	15.7	0	13	
8/7/2025 12:00	2.6	8/7/2025 12:00	15.8	0	13.2	
8/7/2025 12:15	4.4	8/7/2025 12:15	15.5	0	11.1	
8/7/2025 12:30				_	11.8	
**Particulate Threshold PM 10 15minute average = 100μg/m³ above background						



WORK LOCATION MAP

Date: Thursday, August 7, 2025
Site Name: 2nd & Washington



Legend		
UW	Upwind Air Monitor Location	
DW	Downtown Air Monitor Location	
	BCP Site Boundary	



DAILY FIELD REPORT				
Date:	Monday, Aug	Monday, August 11, 2025		
Site Name:	2nd & Washi	2nd & Washington		
Location:	211 Park Ave	enue, Dunkirk NY, 1404	18	
Contractor/Sub-Contractor:	Empire Explo	oration and Geology		
Weather Conditions:	Sunny	80 °F	N 10 MPH	
Description of Work Performed:				
Arrived on site and set up upwind and downw	ind air monitors.			
Began on RI-BH-16 and traversed in a counte	er clockwise direc	tion.		
Michael Keller (DEC PM) arrived on site shor	tly after drilling bε	egan.		
Completed RI-BH-5, RI-BH-16, and STP-1 the	rough 4. All additi	onal soil samples now	complete.	
Drill rig arrived on site towards end of day. Du tomorrow (8/12).	ue to having the w	rong equipment, well ir	nstallation will start	
Problems/Observations:				
Health and Safety Concerns:	None.			
Contractor Work Force:	N/a			
Contractor Equipment	Geoprobe, D	rill Rig.		
Attachments : Air Quality Data, Work Location	n Map			
Inspectors Name	Paul Staub			



COMMUNITY AIR MONITORING PROGRAM DATA Date: Monday, August 11, 2025 Site Name: 2nd & Washington **Upwind Data Downwind Data** Delta PM 10 - 15 PM 10 - 15 min PM 10 - 15m AVG VOC Time min AVG Time AVG (µg/m³) $(\mu g/m^3)$ $(\mu g/m^3)$ 0 8/11/2025 9:45 8/11/2025 9:45 8/11/2025 10:00 6.6 8/11/2025 10:00 8.2 0 1.6 0 8/11/2025 10:15 7.6 8/11/2025 10:15 10.5 2.9 8/11/2025 10:30 7.1 8/11/2025 10:30 17.7 0 10.6 0 8/11/2025 10:45 7.1 8/11/2025 10:45 8 0.9 0 8/11/2025 11:00 6.8 8/11/2025 11:00 9.9 3.1 7.2 0 8/11/2025 11:15 8/11/2025 11:15 9.3 2.1 0 8.2 8/11/2025 11:30 8/11/2025 11:30 8 -0.2 8/11/2025 11:45 11.1 8/11/2025 11:45 8.4 0 -2.7 0 8/11/2025 12:00 7.2 8/11/2025 12:00 1.8 8/11/2025 12:15 8.8 8/11/2025 12:15 8.3 0 -0.5 0 8/11/2025 12:30 7.2 8/11/2025 12:30 9.6 2.4 0 8.2 8.1 -0.1 8/11/2025 12:45 8/11/2025 12:45 0 8/11/2025 13:00 8.1 8/11/2025 13:00 8 -0.1 8/11/2025 13:15 7.6 8/11/2025 13:15 9.7 0 2.1 0 9.8 15.2 5.4 8/11/2025 13:30 8/11/2025 13:30 0 -0.7 8/11/2025 13:45 8.8 8/11/2025 13:45 8.1 8/11/2025 14:00 7.2 8/11/2025 14:00 8.1 0 0.9 0 8/11/2025 14:15 7.5 8/11/2025 14:15 8.5 1 0 2.5 8/11/2025 14:30 6.9 8/11/2025 14:30 9.4 8/11/2025 14:45 0 8.2 8/11/2025 14:45 9.8 1.6 8/11/2025 15:00 8 8/11/2025 15:00 0 -0.4 7.6

**Particulate Threshold PM 10 15minute average = 100µg/m³ above background



Date: Monday, August 11, 2025
Site Name: 2nd & Washington

DW UW

Legend			
UW	Upwind Air Monitor Location		
DW	Downtown Air Monitor Location		
	BCP Site Boundary		



DAILY FIELD REPORT				
Date:	Tuesday, August	12, 2025		
Site Name:	2nd & Washington			
Location:	211 Park Avenue	, Dunkirk NY, 1404	8	
Contractor/Sub-Contractor:	Empire Exploration	Empire Exploration and Geology		
Weather Conditions:	Partly Cloudy	80 °F	N 8 MPH	
Description of Work Performed:				
Arrived on site and set up upwind and downwind	air monitors.			
Began drilling through overburden and installing r	ock socket on RI-B	W-2.		
Michael Keller (DEC PM) arrived on site shortly a	fter drilling began.			
Rock socket set on RI-BW-2 at approximately 12 coring.	:30pm. Casing will I	oe allowed to set fo	r at least 24 hours before	
Began drilling through overburden and installing r	ock socket on RI-B	W-1. Casing set at	approximately 3:30pm.	
Rock socket for RI-BW-3 will begin tomorrow 8/1	3.			
All cuttings stored on site in 55-gallon drums.				
Problems/Observations:				
Health and Safety Concerns:	None.			
Contractor Work Force:	1 Driller, 1 helper			
Contractor Equipment	Drill Rig.			
	Ŭ.			
Attachments : Air Quality Data, Work Location Ma	ap			
Inspectors Name	Paul Staub			



	COMM	IUNITY AIR MONITO	RING PROGRAM	DATA	
Date:		Tuesday, August 12,	2025		
Site Name:		2nd & Washington			
Upwind Da	ata		Downwind Data		Delta
Time	PM 10 - 15 min AVG (µg/m³)	Time	PM 10 - 15 min AVG (μg/m³)	VOC	PM 10 - 15m AVG (μg/m³)
8/12/2025 8:45		8/12/2025 8:45	8.1	0	8.1
8/12/2025 9:00	8.8	8/12/2025 9:00	9.7	0	0.9
8/12/2025 9:15	7.2	8/12/2025 9:15	8.4	0	1.2
8/12/2025 9:30	6.5	8/12/2025 9:30	7.1	0	0.6
8/12/2025 9:45	7.1	8/12/2025 9:45	7.2	0	0.1
8/12/2025 10:00	9.3	8/12/2025 10:00	6.6	0	-2.7
8/12/2025 10:15	7.4	8/12/2025 10:15	6.3	0	-1.1
8/12/2025 10:30	6.2	8/12/2025 10:30	6.2	0	0
8/12/2025 10:45	7.4	8/12/2025 10:45	6.7	0	-0.7
8/12/2025 11:00	7.9	8/12/2025 11:00	7.4	0	-0.5
8/12/2025 11:15	6.8	8/12/2025 11:15	6.4	0	-0.4
8/12/2025 11:30	5.8	8/12/2025 11:30	5.2	0	-0.6
8/12/2025 11:45	5.5	8/12/2025 11:45	5.1	0	-0.4
8/12/2025 12:00	7	8/12/2025 12:00	6.7	0	-0.3
8/12/2025 12:15	7.1	8/12/2025 12:15	6	0	-1.1
8/12/2025 12:30	8.1	8/12/2025 12:30	6.7	0	-1.4
8/12/2025 12:45	6.8	8/12/2025 12:45	6.8	0	0
8/12/2025 13:00	6.7	8/12/2025 13:00	6.8	0	0.1
8/12/2025 13:15	6.5	8/12/2025 13:15	6.2	0	-0.3
8/12/2025 13:30	6.3	8/12/2025 13:30	5.5	0	-0.8
8/12/2025 13:45	9.1	8/12/2025 13:45	6.2	0	-2.9
8/12/2025 14:00	5.4	8/12/2025 14:00	5.3	0	-0.1
8/12/2025 14:15	6.1	8/12/2025 14:15	5.1	0	-1
8/12/2025 14:30	4.5	8/12/2025 14:30	5.6	0	1.1
8/12/2025 14:45	4.6	8/12/2025 14:45	5.1	0	0.5
8/12/2025 15:00	5	8/12/2025 15:00	5.2	0	0.2
**Partio	culate Thresho	ld PM 10 15minute a	verage = 100µg/l	m³ above backgrou	und



Date: Tuesday, August 12, 2025
Site Name: 2nd & Washington



Legend			
UW	Upwind Air Monitor Location		
DW	Downtown Air Monitor Location		
	BCP Site Boundary		



DAILY FIELD REPORT					
Date:	Wednesday, Aug	ust 13, 2025			
Site Name:	2nd & Washington				
Location:	211 Park Avenue	, Dunkirk NY, 1404	8		
Contractor/Sub-Contractor:	Empire Exploration	on and Geology			
Weather Conditions:	Cloudy, rainy	Cloudy, rainy 75 °F S 11 MPH			
Description of Work Performed:	•				
No CAMP set up due to rainy conditions during f the day	irst half of the day a	nd use of water du	ring drilling the remainder of		
Began drilling through overburden and installing	rock socket on RI-B	W-3. Casing set ar	ound 12:00pm		
Set up for coring on RI-BW-2. Drillers had to buy	equipment from ho	me depot.			
DEC PM Michael Keller arrived on site shortly be	fore coring began.				
RI-BW-2 installed at 21.8' bgs with 10' PVC scre	en.				
Approximately 200 gallons of drilling water was lo	est during construct	ion.			
End of day spent cleaning equipment and prepar	ing for tomorrow 8/	14.			
Problems/Observations:					
Health and Safety Concerns:	None.				
Contractor Work Force:	1 Driller, 1 helper				
Contractor Equipment	Drill Rig.				
Attachments : Work Location Map	1				
Inspectors Name	Paul Staub				



Date: Wednesday, August 13, 2025

Site Name: 2nd & Washington



Legend		
•	Bedrock Well Location	
	BCP Site Boundary	



DAILY FIELD REPORT					
Date:	Thursday, August 14, 2025				
Site Name:	2nd & Washington				
Location:	211 Park Avenue, Dunkirk NY, 14048				
Contractor/Sub-Contractor:	Empire Exploration and Geology				
Weather Conditions:	Sunny 78 °F S 8 MPH				
Description of Work Performed:					
No CAMP set up due to use of water during drillin	ng.				
Checked water levels in RI-BW-2, approximately	4 feet of water present in the well.				
Began coring RI-BW-1.					
DEC PM Michael Keller arrived on site shortly after	er coring began.				
Unstable rock began caving in the borehole after loose rock with hollow stem auger and roller bit ar	the well was drilled to 21.2' bgs. Driller was able to clear out nd install PVC screen.				
John Boyd, P.G. arrived on site and began coring	g logs for both RI-BW-2 and RI-BW-3.				
Started coring RI-BW-3 at approximately 1:00pm.	. Well set at a final depth of 24.10' bgs.				
Total drilling water lost for RI-BW-1 and RI-BW-2	respectively was 180 and 120 gallons respectively.				
Problems/Observations:					
Health and Safety Concerns:	Safety Concerns: None.				
Contractor Work Force:	1 Driller, 1 helper				
	1 Briller, 1 Tropper				
Contractor Equipment	Drill Rig.				
Attachments : Work Location Map					
Inspectors Name	Paul Staub				



Date: Thursday, August 14, 2025

Site Name: 2nd & Washington



Legend		
\bigoplus	Bedrock Well Location	
	BCP Site Boundary	



DAILY FIELD REPORT					
Date:	Friday, Augı	Friday, August 15, 2025			
Site Name:	2nd & Wash	2nd & Washington			
Location:	211 Park Av	enue, Dunkirk NY, 14048	3		
Contractor/Sub-Contractor:	BE3				
Weather Conditions:	Sunny	82 °F	N 8 MPH		
Description of Work Performed:	•				
No CAMP set up due to lack of soil disturbing	activates.				
Began developing RI-BW-1 and RI-BW-2 and	l taking periodic w	ater quality readings.			
RI-BW-2 was pumped dry repeatedly and fou	nd to have a very	slow recharge rate.			
RI-BW-1 had a fast recharge and was not pu	mped dry during o	development.			
At the end of the day approximately 165 and	10-gallons were re	emoved from RI-BW-1 ar	nd RI-BW-2 respectively.		
Problems/Observations:					
Health and Safety Concerns:	None.				
Contractor Work Force:	2 laborers				
Contractor Equipment	2 Peristaltic water quality	Pumps, 1 Mini monsoon / meters	12v down well pump, 2		
Attachments : Work Location Map					
Inspectors Name	Paul Staub				



Date: Friday, August 15, 2025
Site Name: 2nd & Washington



Legend		
\bigoplus	Bedrock Well Location	
	BCP Site Boundary	



DAI	LY FIELD REP	ORT		
Date:	Monday, August 18, 2025			
Site Name:	2nd & Washington			
Location:	211 Park Ave	nue, Dunkirk NY, 14048	3	
Contractor/Sub-Contractor:	BE3			
Weather Conditions:	Sunny	75 °F	N 4 MPH	
Description of Work Performed:	•			
No CAMP set up due to lack of soil disturbing act	tivates.			
Began developing RI-BW-2, RI-BW-3, and purgir	ng RI-MW-2 and	d taking periodic water	quality readings.	
RI-BW-2 was pumped dry repeatedly throughout	the day due to	slow recharge rate.		
RI-BW-3 and RI-MW-2 were found to have suffic	ient recharge.			
Proper flow rate was established and RI-BW-3 w	as able to be p	umped continuously.		
RI-MW-2 and RI-BW-3 were able to be sampled after sufficient volumes were removed and water quality parameters stabilized.				
MS/MSD sample was taken from RI-MW-2.				
After sampling RI-BW-3 and RI-MW-2, RI-BW-1 v	was purged and	d sampled.		
At current flow rate for RI-BW-2, it would take ap water. It was decided that RI-BW-2 would be san required water.				
in total across 8/15 and today 8/18: 220-gallons in 20-gallons were removed from RI-BW-2.	removed from F	RI-BW-1, 138-gallons re	emoved from RI-BW-3 and	
Samples were taken from RI-BW-1 through 3 and the day.	d RI-MW-2, pad	kaged, and dropped of	f at the lab at the end of	
Problems/Observations:				
Health and Safety Concerns:	None.			
Contractor Work Force:	2 laborers			
Contractor Equipment	2 Peristaltic P water quality r		12v down well pump, 2	
Attachments : Work Location Map				
Inspectors Name	Paul Staub			



Date:

WORK LOCATION MAP Monday, August 18, 2025

Site Name: 2nd & Washington



Legend			
—	Overburden Well Location		
Bedrock Well Location			
	BCP Site Boundary		

Appendix B Site Photographs

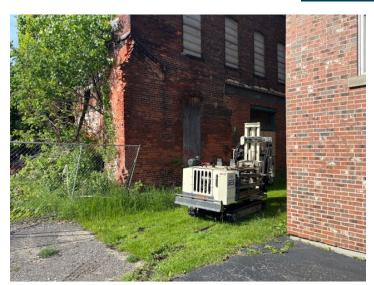






1. RI-VP-5 2. F







3. RI-VP-2 4. RI-VP-1

Page 1 of 7

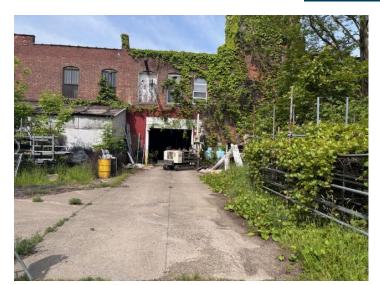






6. RI-BH-9





7. RI-BH-7



8. RI-BH-13

Page 2 of 7



9. RI-BH-15 Cores



10. RI-BH-15 Cores





11. RI-MW-3 12. RI-MW-2

Page 3 of 7







14. RI-MW-4





15. RI-MW-1 16. RI-VP-3



Page 4 of 7







18. RI-BH-1 Cores





19. RI-BH-2 Cores



20. RI-BW-2

Page 5 of 7

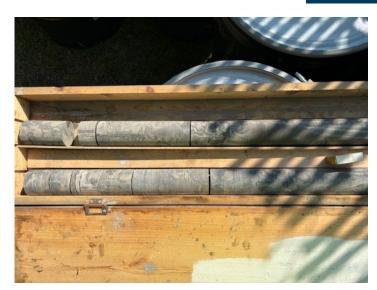


21. RI-BW-3



22. RI-BW-2 Bedrock cores





23. RI-BW-3 Top half of bedrock cores



24. RI-BW-3 Bottom half of bedrock cores

Page 6 of 7



25. RI-BW-1 Bedrock cores



Appendix C Soil Boring Logs



	2nd &	Was	shington Reme	edial Investigation	BORING LOG
30RING L	LOCATION:	RI-BI	H-1		
	CONTRACTO			nmental Services	
	METHOD: D				
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT				BRYDGES	
DATE STARTED: 6/3/2025					ENGINEERING IN ENVIRONMENT
	ARTED. 0/	1			AND ENERGY, DPC
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0 1- 2- 3- 4-	RI-BH-1 Fill	0		FILL; brown clayey silt	
5— 6—— 7— 8—	RI-BH-1 Native	- 0		NATIVE; grey brown clay	native @ 5'
9	<u>ਕੌ</u>	0		NATIVE; wet grey brown clay	
-					refusal @ 10'
11-					
12-					
13-					
14-					
	s Engineeri	na in	Environment and Er	neray DPC	Project No. C907051 Page 1 of 1

	2nd &	Was	hington Reme	dial Investigation	ВС	ORING L	OG
BORING	COCATION:	RI-BI	l-2				
RILLIN	IG CONTRACT	OR:	Sessler Enviro	nmental Services		-)	5
	IG METHOD: [
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT					BRYDGES		
	D BY: TN	2/202	ı.E		Er	NGINEERIN NENVIRONMEN	IT
	STARTED: 6/		.5		A	ND ENERGY, DE	, c
DEPTH (feet)	Sample	PID Reading		DESCRIPTION		REMAR	RKS
0				Concrete			
1—————————————————————————————————————	RI-BH-2 Fill	0		FILL; black loose sand		tivo (2) 41	
5— 6— 7— 8— 9—	RI-BH-2 Native	0		NATIVE; stiff grey brown clay		native @ 4'	
44					Tel	usal @ 10'	
11-							
12-							
13-							
14-							
 Bryda	es Engineer	ing in	Environment and Er	nergy, DPC	Project No.	. C907051	Page 1 of 1

	2nd &	Was	shington Reme	edial Investigation	BORING LOG
ORING	S LOCATION:	RI-BI			
	IG CONTRACT		Sessler Enviro		
	IG METHOD: [
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT				BRYDGES	
	DBY: PS	20/20	<u> </u>		ENGINEERING IN ENVIRONMENT
	TARTED: 5/3		20		AND ENERGY, DPC
(feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0				Concrete	
2-3-4	RI-BH-3 Fill	0		FILL; black silty sand, some brick	
5- 6- 7- 8-		0		NATIVE; stiff grey brown clay	native @ 4'
9-		0		NATIVE; soft moist grey brown cla	<i>'</i>
10— 11— 12—		0		NATIVE; wet light brown sand	
13-					refusal @ 13'
	os Engines	ing in	Environment and Er	pergy DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nd 8	& Was	shington Reme	edial Investigation	BORING LOG
BORING LOCATION	RI-BI	H-4		
DRILLING CONTRAC	CTOR:	Sessler Enviro	nmental Services	
DRILLING METHOD:	Direct	Push		
EXCAVATION EQUI	PMENT:	Geoprobe Model	BRYDGES	
LOGGED BY: PS				ENGINEERING IN ENVIRONMENT
DATE STARTED: 5				AND ENERGY, DPC
HL (teet) Sample	PID Reading		DESCRIPTION	REMARKS
0 1 2	0		Concrete FILL; black silty sand, some brick	
6	0		NATIVE; stiff grey brown clay	native @ 5' collected MS/MSD
11— 12— 13— 14—				refusal @ 10'
Brydges Engine	ering in	Environment and Er	neray DPC	Project No. C907051 Page 1 of 1
DI YUYES ETIYITE	ciniy iii	LIMIOIIIICIII AIIU EI	ieigy, Dr O	Flojectino. Cautoa i Page i oi i

PROJECT: 2nd	d & Was	shington Reme	edial Investigation	BORING LOG
BORING LOCATION	ON: RI-BH	H-5		
DRILLING CONTF	RACTOR:	Empire Explora	ition and Geology	
DRILLING METHO	DD: Direct	Push		
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT				BRYDGES
LOGGED BY: P	S			ENGINEERING IN ENVIRONMENT
DATE STARTED:		25		AND ENERGY, DPC
(feet) Samp	al PID Reading		DESCRIPTION	REMARKS
0 1- 2- 3- 3- 4- 5-	0		FILL; black sandy silt, some brick	
5— 6— 7— 8— 9—	0		NATIVE; grey brown clay	native @ 5'
11-				
12-				
13-				
14-				
Brydges Engi	neering in	Environment and Er	nergy, DPC	Project No. C907051 Page 1 of 1

EXCAVATION EQUIPMENT: Geoprobe Model 7720DT LOGGED BY: PS DATE STARTED: 8/11/2025 Table 10 and 10	
DATE STARTED: 8/11/2025 THE STARTED: 8/11/2025 DESCRIPTION REMARKS 15- 16- 16-	
DATE STARTED: 8/11/2025 AND ENERGY, DPC The started in the start	
15—	
Bridges Engineering in Engineering in Engineering DPC Project No. 0007054 Page 4.46	
Brydges Engineering in Environment and Energy, DPC Project No. C907051 Page 1 of	

PROJE		Was	shington Reme	edial Investigation	BORING LOG
BORING	G LOCATION:	RI-BI	H-6		
DRILLIN	NG CONTRACT	OR:	Sessler Enviro	B2.3	
DRILLIN	NG METHOD:	Direct	Push		
EXCAV	CAVATION EQUIPMENT: Geoprobe Model 7720DT				BRYDGES
	D BY: PS				ENGINEERING IN ENVIRONMENT
	STARTED: 5/3				AND ENERGY, DPC
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0 1- 2- 3- 4- 5-	RI-BH-6 Fill	0		FILL; black silty sand, trace brick	
6- 7- 8- 9- 10-	RI-BH-6 Native	0		NATIVE; stiff grey brown clay	native @ 5'
11- 12- 13- 14-					refusal @ 11'
	nos Enginoor	ina in	Environment and Er	nerav. DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nd	& Was	shington Reme	edial Investigation	BORING LOG
BORING LOCATIO	N: RI-BI	H-7		
DRILLING CONTR	ACTOR:	Sessler Enviro	nmental Services	
DRILLING METHO	D: Direc t	t Push		
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT				BRYDGES
LOGGED BY: PS				ENGINEERING IN ENVIRONMENT
DATE STARTED:				AND ENERGY, DPC
(feet) Sampl	PID Reading		DESCRIPTION	REMARKS
0 1- 1- 2- 2- 3- 4- 5-	0		FILL; black silty sand, trace debris	
5- 6- 7- 8- 8- 8- NBH-7 Native	0		NATIVE; moist soft grey brown cla	native @ '5
11- 12- 13- 14-	0		NATIVE; wet soft grey brown clay	
		Environment and Er		Project No. C907051 Page 1 of 1

DRILLING METHOD: Direct Push			
EXCAVATION EQUIPMENT: Geoprobe Mode	I 7720DT	BRY	/DGES
LOGGED BY: PS			NEERING
DATE STARTED: 5/30/2025		AND ER	IRONMENT NERGY, DPC
Cleet) Sample Reading Reading	DESCRIPTION		REMARKS
15-		refusal @	15'
16—			
17			
Brydges Engineering in Environment and E	nergy, DPC	Project No. C907	7051 Page 1 of 1

BORING	G LOCATION:	RI-BI	H-8				
RILLI	NG CONTRACT	OR:	Sessler Enviro	nmental Services			
RILLI	NG METHOD:	Direct	Push			_	
EXCAV	ATION EQUIP	MENT:	Geoprobe Model	7720DT	BRYDGES		
LOGGED BY: TN					ENGINEERING		
DATE STARTED: 6/3/2025					IN ENVIRONMENT AND ENERGY, DPC		
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS	3	
0 1- 2- 3- 4-	RI-BH-8 Fill	0		FILL; black silty sand, trace wood			
5— 6—	RI-BH-8 Native	0		NATIVE; grey brown clay	native @ 4'		
7- -							
8-							
9-							
10-							
11-							
12-							
13-							
14-							
Bryde	nes Engineer	ing in	Environment and Er	neray DPC	Project No. C907051	Page 1 of 1	

PROJECT: 2	2nd & V	Vas	shington Reme	edial Investigation	BORING LOG
BORING LOC	ATION: R	I-BH	1 -9		
DRILLING CO	NTRACTO	₹:	Sessler Enviro	nmental Services	B2.3
DRILLING ME	тнод: Di i	rect	Push		
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT				BRYDGES	
LOGGED BY:					ENGINEERING IN ENVIRONMENT
DATE START			25		AND ENERGY, DPC
DE CONTRACTOR DE	mple	PID Reading		DESCRIPTION	REMARKS
0	RI-BH-9 Fill	0		FILL; dark brown sandy loose fill	
6		0		NATIVE; stiff grey brown clay	native @ 5'
8- 8- 9-	RI-BH-9 Native	0		NATIVE; wet grey brown clay	
10					refusal @ 10'
11-					
12-					
13-					
14-					
Brydges E	ngineerin	g in	Environment and Er	nergy, DPC	Project No. C907051 Page 1 of 1

PROJE		Was	shington Reme	BORING LOG					
BORING	G LOCATION: F	RI-BH	l-10						
DRILLI	NG CONTRACT	OR:	Sessler Enviro	B=3					
DRILLI	NG METHOD: D	irect	Push						
EXCAV	ATION EQUIPM	1ENT: (Geoprobe Model	BRYDGES					
	DBY: PS			ENGINEERING IN ENVIRONMENT					
DATE STARTED: 5/30/2025									
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS				
0 1- 2- 3- 4-	RI-BH-10 Fill	0		FILL; brown clayey silt, trace deb					
5— 6— 7—	tive + MS/MSD	0		NATIVE; stiff grey brown clay	native @ 4'				
8-	RI-BH-10 Native +	0		NATIVE; wet grey brown clay	Collected MS/MSD				
9-		1			refusal @ 9'				
10-									
11-									
12-									
13-									
14-									
 Brydg	ges Engineeri	ng in	Environment and Er	Project No. C907051 Page 1 of 1					

PROJECT: 2nd	& Was	shington Reme	BORING LOG			
BORING LOCATION			BES			
DRILLING CONTRA	ACTOR:	Sessler Enviro				
DRILLING METHOD	: Direct	t Push				
EXCAVATION EQU	JIPMENT:	Geoprobe Model	•	BRYDGES		
LOGGED BY: PS			ENGINEERING IN ENVIRONMENT AND ENERGY, DPC			
DATE STARTED: (5/30/20	25				
(feet) Sample	PID		DESCRIPTION		REMAR	RKS
0 1- 2- 2- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	0		FILL; light brown sandy clay		native @ 3'	
- 6	0		NATIVE; stiff grey brown clay			
8- 9-	0		NATIVE; wet grey brown clay		refusal @ 9'	
10—					G	
11-						
12-						
13-						
14-						
Brydges Engine	eering in	Environment and Er	Project	No. C907051	Page 1 of 1	

PROJECT: 2nd & Washington Remedial Investigation					BORING LOG
BORING L	OCATION: R	I-BH	l-12		
DRILLING CONTRACTOR: Sessler Environmental Services					
DRILLING	метноd: D	irect	Push		
EXCAVA	TION EQUIPM	ENT: (Geoprobe Model	BRYDGES	
LOGGED	BY: PS			ENGINEERING IN ENVIRONMENT	
DATE STA	ARTED: 5/3	1		AND ENERGY, DPC	
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0 1- 2- 3- 4-	RI-BH-12 Fill	0		FILL; loose brown sandy clay, tra ceramics	
5—————————————————————————————————————	RI-BH-12 Native	0		NATIVE; moist soft grey brown cl	
11-					refusal @ 10
12- 13-					
- 14— -					
Brydge	s Engineeri	ng in	Environment and Er	nergy, DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nc	l & Was	shington Reme	BORIN	G LOG	
BORING LOCATION	on: RI-BH	I-13			
DRILLING CONTR	RACTOR:	Sessler Enviro	5	13	
DRILLING METHO	D: Direct	Push			
EXCAVATION EC	UIPMENT:	Geoprobe Model	BRYD	GES	
LOGGED BY: P			ENGINE IN ENVIRO	ERING DIMENT	
DATE STARTED:			AND ENE	RGY, DPC	
(feet) Sampl	al PID Reading		DESCRIPTION	F	REMARKS
0 1- 2- 2- 3- 4-	0		FILL; black sandy silt, some brick		
5 - 5 - 6 - 7 - 7 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	0		NATIVE; stiff grey brown clay	native @ 4'	
9	0		NAITVE; soft wet grey brown clay	refusal @ 11	
12-				Tolusal (g) TT	
13-					
Brydges Engir	neering in	Environment and Er	pergy DPC	Project No. C90705	1 Page 1 of 1
21, agoo Engli	.55,1119 111			1 10,000 140. 000700	. Tage For F

PROJECT: **BORING LOG** 2nd & Washington Remedial Investigation BORING LOCATION: RI-BH-14 Sessler Environmental Services DRILLING CONTRACTOR: DRILLING METHOD: Direct Push EXCAVATION EQUIPMENT: Geoprobe Model 7720DT LOGGED BY: PS DATE STARTED: 5/30/2025 PID Reading DEPTH (feet) **REMARKS** Sample **DESCRIPTION** Asphalt RI-BH-14 Fill FILL; loose black sandy silt, some grey rocks 2 3 native @ 3' 4 RI-BH-14 Native NAITVE; stiff tight grey brown clay 5 0 6 7 refusal @ 7' 8 9-10 11 12-13 14-Brydges Engineering in Environment and Energy, DPC Project No. C907051 Page 1 of 1

	2nd &	Was	shington Reme	edial Investigation	BORING LOG
BORING	LOCATION: R	RI-BH	I-15		
ORILLIN	G CONTRACTO	OR:	Sessler Enviro		
ORILLIN	G METHOD: D	irect	Push		
EXCAV	ATION EQUIPM	1ENT:	Geoprobe Model	BRYDGES	
	DBY: PS			ENGINEERING IN ENVIRONMENT	
	TARTED: 5/3	1	T	AND ENERGY, DPC	
(feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0 1- 2- 3-	RI-BH-15 Fill	0		FILL; black silty sand, trace organ	
4—- 5— 6—	RI-BH-15 Native	0		NATIVE; stiff grey brown clay	native @ 3.5'
8- 9-				NATIVE; wet grey brown clay	refusal @ 9'
10-					
-					
11-					
12-					
-					
13-					
14-					
_	oo Engines ==	na i-	Environment and Fi	porav DDC	Project No. 0007054 Page 4 154
z ryag:	es ∟ngineeri	ng in	Environment and Er	iergy, DPC	Project No. C907051 Page 1 of 1

PROJECT: 2n	d & Wa	ashington Reme	BORING LOG	
BORING LOCAT				
DRILLING CONT	RACTOR:	Empire Explora		
DRILLING METH	od: Dire d	ct Push		
EXCAVATION E	QUIPMENT	Geoprobe Model	BRYDGES	
LOGGED BY: F	PS .			ENGINEERING
DATE STARTED	8/11/2	025	IN ENVIRONMENT AND ENERGY, DPC	
(feet) Saml	ole 문	Keading	DESCRIPTION	REMARKS
0 1 2 91 H8-18 3 5 5 5 6 6 6 6 6 6 6	0		FILL; loose brown sandy clay, trac ceramics	ce brick and
6- 7- - 8-	0		NATIVE; moist grey brown clay	native @ 6'
9-	0		NATIVE; grey brown clay	
10-				
12—				
13-				
14-				
Brydges Eng	ineering i	n Environment and E	nergy, DPC	Project No. C907051 Page 1 of 1

EXCAVATION EQUIPMENT: Geoprobe Model 7720DT LOGGED BY: PS DATE STARTED: 8/11/2025 Table 10 and 10	
DATE STARTED: 8/11/2025 THE STARTED: 8/11/2025 DESCRIPTION REMARKS 15- 16- 16-	
DATE STARTED: 8/11/2025 AND ENERGY, DPC The started in the start	
15—	
Bridges Engineering in Engineering in Engineering DPC Project No. 0007054 Page 4.46	
Brydges Engineering in Environment and Energy, DPC Project No. C907051 Page 1 of	

PROJECT: 2nd & Washington Remedial Investigation					BORING LOG
BORING	COCATION:	RI-MV	V-1		
DRILLIN	IG CONTRACT	OR:	Sessler Enviro		
DRILLIN	IG METHOD: [Direct	Push		
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT				BRYDGES	
LOGGED BY: PS					ENGINEERING IN ENVIRONMENT
	TARTED: 5/3			AND ENERGY, DPC	
(feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0 1- 2- 3- 4- 5-		0		FILL; black loose sand	
5- 6- 7- 8- 9- 10-	RI-MW-1	0		NATIVE; grey brown clay	native @ 5'
11— 12— 13—		0		NATIVE; moist grey brown clay	screen installed 7-12'
14— Brydg	es Engineer	ring in	Environment and E	nergy, DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nd &	Was	hington Reme	BORING LOG	
BORING LOCATION:	RI-MV	<i>I</i> -2		
DRILLING CONTRAC	TOR:	Sessler Enviro		
DRILLING METHOD:	Direct	Push		
EXCAVATION EQUIP	MENT: C	Geoprobe Model	BRYDGES	
LOGGED BY: PS				ENGINEERING
DATE STARTED: 5/	30/202	25	IN ENVIRONMENT AND ENERGY, DPC	
HTG (teet) Sample	PID Reading		DESCRIPTION	REMARKS
0 1- 2- 3- 4- 5-	0		FILL; black silty sand, trace brick	
6— 7— 8— 9—	0		NATIVE; stiff brown clay	native @ 5' collected DUP
10- 11- RI-MW-2 + DUP	0		NATIVE; wet clayey sand	
12————————————————————————————————————			NATIVE; shale	screen installed 8-13' refusal @ 13.5'
_				
Brydges Enginee	ring in E	Environment and Er	nergy, DPC	Project No. C907051 Page 1 of 1

	2nd &	Was	shington Reme	edial Investigation	BORING LOG
BORING	S LOCATION: F	RI-M\	N-3		
ORILLIN	IG CONTRACT	OR:	Sessler Enviro		
	IG METHOD: [
		MENT:	Geoprobe Model	BRYDGES	
	DBY: PS	0/00	٥٦	ENGINEERING IN ENVIRONMENT	
	STARTED: 5/3		I		AND ENERGY, DPC
(feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0 1- 2-		0		FILL; black sandy silt, grey rocks	
3- 4 5- 6- 7- 8	RI-MW-3 + DUP	0		NATIVE; stiff grey brown clay	native @ 3', collected dup
9-		0		NATIVE; wet soft grey brown clay	
-					refusal @ 10'
11-					
12-					
13-					
14-					
_	os Enginoer	ina in	Environment and Er	pergy DPC	Project No. C907051 Page 1 of 1

PROJEC		Was	shington Reme	BORING LOG		
BORING	LOCATION: F					
DRILLIN	G CONTRACT	OR:	Sessler Enviro			
DRILLIN	G МЕТНОD: 🏻	irect	Push			
EXCAV	ATION EQUIPM	1ENT: (Geoprobe Model	BRYDGES		
LOGGEI	DBY: PS			ENGINEERING		
DATE S	TARTED: 5/3	0/20	25	IN ENVIRONMENT AND ENERGY, DPC		
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS	
0 1- 2- 3-		0		FILL; black sandy silt, trace brick		
4		0		NATIVE; stiff grey brown clay	native @ 3'	
6— 7—	RI-MW-4	0		NATIVE; wet grey brown clay		
9-		0		NATIVE; wet light brown sand	screen installed 3-8'	
10-					refusal @ 10'	
11-						
12-						
13-						
14-						
Brydg	es Engineeri	ng in	Environment and Er	nergy, DPC	Project No. C907051 Pag	e 1 of 1

PROJECT:	2nd & \	Nas	shington Reme	BORING LOG			
BORING LOC	ATION: R	I-MV	V-5				
DRILLING CO	NTRACTO	R:	Sessler Enviro				
DRILLING ME	тнор: D	irect	Push				
EXCAVATION	N EQUIPM	ENT: (Geoprobe Model	BRYDGES			
LOGGED BY:	PS			ENGINEERING IN ENVIRONMENT			
DATE START	ED: 5/30	0/202	25	AND ENERGY, DPC			
(feet) Sa	mple	PID Reading		DESCRIPTION	REMARKS		
0 1- 2- 3-		0		FILL - black loose sand	native @ 3'		
4	RI-MW-5	0		NATIVE; stiff grey brown clay	Tialive & 3		
9-		0		NATIVE; wet grey brown clay	screen installed 3-8'		
11—					refusal @ 10'		
12-							
13-							
14-							
Brydges E	ngineerir	ng in	Environment and Er	nergy, DPC	Project No. C907051 Page 1 of 1		

PROJECT: 2nd & Wa	shington Reme	BORING L	OG	
BORING LOCATION: STP-				
DRILLING CONTRACTOR:	Empire Explora			
DRILLING METHOD: Direc		0,		
EXCAVATION EQUIPMENT:	Geoprobe Model			
LOGGED BY: PS	·		BRYDGES ENGINEERI	NG
DATE STARTED: 8/11/20	025		IN ENVIRONME AND ENERGY, D	
(feet) Sample Seading		DESCRIPTION	REMA	RKS
0		FILL; black sandy silt, some brick		
_				
Brydges Engineering in	n Environment and En	ergy, DPC	Project No. C907051	Page 1 of 1

PROJECT: 2nd & Wa	ashington Reme	BORING LO	OG	
BORING LOCATION: STP				
DRILLING CONTRACTOR:	Empire Explora		2	
DRILLING METHOD: Direc		3,		
EXCAVATION EQUIPMENT:				
LOGGED BY: PS	· · · · · · · · · · · · · · · · · · ·		BRYDGES ENGINEERIN	IG
DATE STARTED: 8/11/20	025		IN ENVIRONMEN AND ENERGY, DP	
(feet) Sample Sample	Keading	DESCRIPTION	REMAR	KS
0		FILL; black sandy silt, some brick		
14-				
Brydges Engineering in	n Environment and Er	nergy, DPC	Project No. C907051	Page 1 of 1

PROJECT: 2nd & Wa	shington Reme	BORING LO)G	
BORING LOCATION: STP:				
DRILLING CONTRACTOR: Empire Exploration and Geology				
DRILLING METHOD: Direc		0,		
EXCAVATION EQUIPMENT:	: Geoprobe Model	7720DT		
LOGGED BY: PS	·		BRYDGES ENGINEERIN	G
DATE STARTED: 8/11/20	025		IN ENVIRONMENT AND ENERGY, DP	
(feet) Sample Signal Sample Signal Si	O C C C C C C C C C C C C C C C C C C C	DESCRIPTION	REMARI	KS
0 1		FILL; black sandy silt, some brick		
_				
Brydges Engineering in	n Environment and Er	nergy, DPC	Project No. C907051	Page 1 of 1

PROJE		Was	shington Reme	BORING LOG		
BORING	G LOCATION: S					
DRILLING CONTRACTOR: Empire Exploration and Geology			Empire Explora			
DRILLIN	NG METHOD: D	irect				
EXCAV	/ATION EQUIPM	IENT:	Geoprobe Model	7720DT	BRYDGES	
LOGGE	D BY: PS				ENGINEERING	
DATE S	STARTED: 8/1	1/20	25		IN ENVIRONMENT AND ENERGY, DPC	
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS	
0	W 1-4TS	0		FILL; loose brown sandy clay		
13- - 14-						
Brydg	ges Engineeri	ng in	Environment and E	nergy, DPC	Project No. C907051 Page 1 of 1	1

PROJECT: 2nd &	Wash	nington Reme	BORING LOG	
BORING LOCATION:	STP-2	E		
DRILLING CONTRACTOR: Empire Exploration and Geology				
DRILLING METHOD:	Direct F	Push		
EXCAVATION EQUIP	MENT: G	eoprobe Model	7720DT	BRYDGES
LOGGED BY: PS				ENGINEERING IN ENVIRONMENT
DATE STARTED: 8/		5		AND ENERGY, DPC
(feet) Sample	PID Reading		DESCRIPTION	REMARKS
0			FILL; black sandy silt, trace brick	
14—				
Brydges Enginee	ring in E	nvironment and En	ergy, DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nd & '	Was	hington Remedial Investigati	on	BORING LOG	
BORING LOCATION: S	STP-2	2 N			
DRILLING CONTRACTOR: Empire Exploration and Geology			and Geology		
DRILLING METHOD: D	irect	Push			
EXCAVATION EQUIPM	IENT: (Geoprobe Model 7720DT		BRYDGES	
LOGGED BY: PS				ENGINEERING IN ENVIRONMENT	
DATE STARTED: 8/1		25		AND ENERGY, DPC	
Cleer Sample	PID Reading	DESCRIPTIO	٧	REMARKS	
0	0	FILL; black sandy silt	trace brick		
14-					
Brydges Engineeri	ng in l	Environment and Energy, DPC	Pr	oject No. C907051 Page 1 of 1	

PROJECT: 2nd &	Was	shington Reme	BORING LOG		
BORING LOCATION: (
DRILLING CONTRACTOR: Empire Exploration and Geology					
DRILLING METHOD: [irect				
EXCAVATION EQUIPM	MENT:	Geoprobe Model	7720DT	BRYDGES	
LOGGED BY: PS				ENGINEERING	
DATE STARTED: 8/1	1/20	25		IN ENVIRONMENT AND ENERGY, DPC	
(feet) Sample	PID Reading		DESCRIPTION	REMARKS	
0			FILL; loose brown sandy clay		
_					
Brydges Engineer	ing in	Environment and E	nergy, DPC	Project No. C907051 Page 1 of 1	

PROJECT: 2nd & Was	shington Remedial Investigation	BORING LOG		
BORING LOCATION: STP-2				
DRILLING CONTRACTOR:	Empire Exploration and Geology			
DRILLING METHOD: Direct				
	Geoprobe Model 7720DT			
LOGGED BY: PS	·	BRYDGES ENGINEERING		
DATE STARTED: 8/11/20	25	IN ENVIRONMENT AND ENERGY, DPC		
(feet) Sample PID Reading	DESCRIPTION	REMARKS		
0	FILL; black sandy silt, some gla	SS SS		
_				
Brydges Engineering in	Environment and Energy, DPC	Project No. C907051 Page 1 of 1		

PROJECT: 2nd 8	Was	shington Reme	BORING L	.OG				
BORING LOCATION:	STP-	3 E						
DRILLING CONTRAC	RILLING CONTRACTOR: Empire Exploration and Geology			LING CONTRACTOR: Empire Exploration and Geology				
DRILLING METHOD:	Direct	Push						
EXCAVATION EQUIP	MENT:	Geoprobe Model	7720DT	BRYDGE	5			
LOGGED BY: PS				ENGINEERI IN ENVIRONME	NG			
DATE STARTED: 8/	11/20	25		AND ENERGY, D				
DEPTH (feet) Sample	PID Reading		DESCRIPTION	REMA	RKS			
1 - BE ALSO 1 - BE ALSO 3 - S - S - S - S - S - S - S - S - S -	0		FILL - black loose sand					
14-	ring is	Environment and T	porqu DDC	Draiget No. C007054	Dogo 4 of 4			
_ bryuges Enginee	ring in	Environment and Er	ieigy, DPC	Project No. C907051	Page 1 of 1			

PROJECT: 2nd & Wa	shington Remedial Investigation	BORING LOG
BORING LOCATION: STP-		
DRILLING CONTRACTOR:	Empire Exploration and Geology	
DRILLING METHOD: Direc		
EXCAVATION EQUIPMENT:	Geoprobe Model 7720DT	
LOGGED BY: PS	·	BRYDGES ENGINEERING
DATE STARTED: 8/11/20)25	IN ENVIRONMENT AND ENERGY, DPC
(feet) Sample Seading	DESCRIPTION	REMARKS
0	FILL; black sandy silt, some	prick
14-		
Brydges Engineering in	Environment and Energy, DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nd & V	Vashington Reme	BORING LOG	
BORING LOCATION: S			
DRILLING CONTRACTOR: Empire Exploration and Geology			
DRILLING METHOD: Di		0,7	
EXCAVATION EQUIPME	ENT: Geoprobe Model	7720DT	
LOGGED BY: PS	· · · · · · · · · · · · · · · · · · ·		BRYDGES ENGINEERING
DATE STARTED: 8/11	/2025		IN ENVIRONMENT AND ENERGY, DPC
(feet) Sample	PID Reading	DESCRIPTION	REMARKS
0		FILL; loose brown sandy clay, trad	ce debris
Brydges Engineerin	g in Environment and E	nergy, DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nd & Wa	ashington Reme	BORING L	OG	
BORING LOCATION: STP				
DRILLING CONTRACTOR: Empire Exploration and Geology				2
DRILLING METHOD: Direc				
EXCAVATION EQUIPMENT	Geoprobe Model	7720DT		
LOGGED BY: PS	•		BRYDGES ENGINEERII	NG
DATE STARTED: 8/11/2	2025		IN ENVIRONMEN AND ENERGY, DE	
Cfeet) Sample G	Reading	DESCRIPTION	REMAR	RKS
0 1		FILL; black sandy silt, some brick		
14—				
Brydges Engineering i	n Environment and Er	nergy, DPC	Project No. C907051	Page 1 of 1

ROBING	LOCATION: S			edial Investigation	BORING LOG	
				ation and Geology	RET	
	PRILLING CONTRACTOR: Empire Exploration and Geology PRILLING METHOD: Direct Push			ation and Geology		
			Geoprobe Model	7720DT		
	BY: PS		<u> </u>		BRYDGES ENGINEERING	
DATE ST	ARTED: 8/1	1/20	25		IN ENVIRONMENT AND ENERGY, DPC	
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS	RKS
0 1—— 2—— 3— 4— 5— 6— 7— 8— 9— 10— 11— 12— 13—	STP-4 E	0		FILL; brown clayey silt		
13-						
			Environment and E		Project No. C907051 Project No. C907051	age 1 of 1

TROUL	ROJECT: 2nd & Washington Remedial Investigation			BORING LOG	
BORING	S LOCATION: S	TP-	4 N		
DRILLING CONTRACTOR: Empire Exploration and Geology			Empire Explora		
ORILLIN	IG METHOD: Di	rect	Push		
EXCAV	ATION EQUIPMI	ENT: (Geoprobe Model	7720DT	BRYDGES
OGGE	DBY: PS				ENGINEERING
DATE S	TARTED: 8/1	1/20	25		IN ENVIRONMENT AND ENERGY, DPC
DEPTH (feet)	Sample	PID Reading		DESCRIPTION	REMARKS
0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 10 - 11 - 12 - 13 - 14 - 14 - 14 - 14 - 14 - 14 - 14	STP-4 N	0		FILL; brown clayey silt, trace det	pris and brick
	es Engineerir	na in	Environment and Er	neray DPC	Project No. C907051 Page 1 of 1

PROJECT: 2nd & Washington Remedial Investigation				BORING LOG		
BORING LOCATION: STP-4 S						
DRILLING CONTRACTOR: Empire Exploration and Geology				5		
DRILLING METHOD:	irect	Push				
EXCAVATION EQUIPM	ИENT: (Geoprobe Model	7720DT	BRYDGE	5	
LOGGED BY: PS			ENGINEERI IN ENVIRONME	NG NT		
DATE STARTED: 8/1	_	T		AND ENERGY, D		
HLGE (feet) Sample	PID Reading		DESCRIPTION	REMARKS		
0			FILL; brown clayey silt			
_	ina in	Environment and Er	neray DPC	Project No. C907051	Page 1 of 1	
Di yages Engineer	y !!!	Environment and El	iorgy, Di O	1 10,601 110. 090/031	l age i oi i	

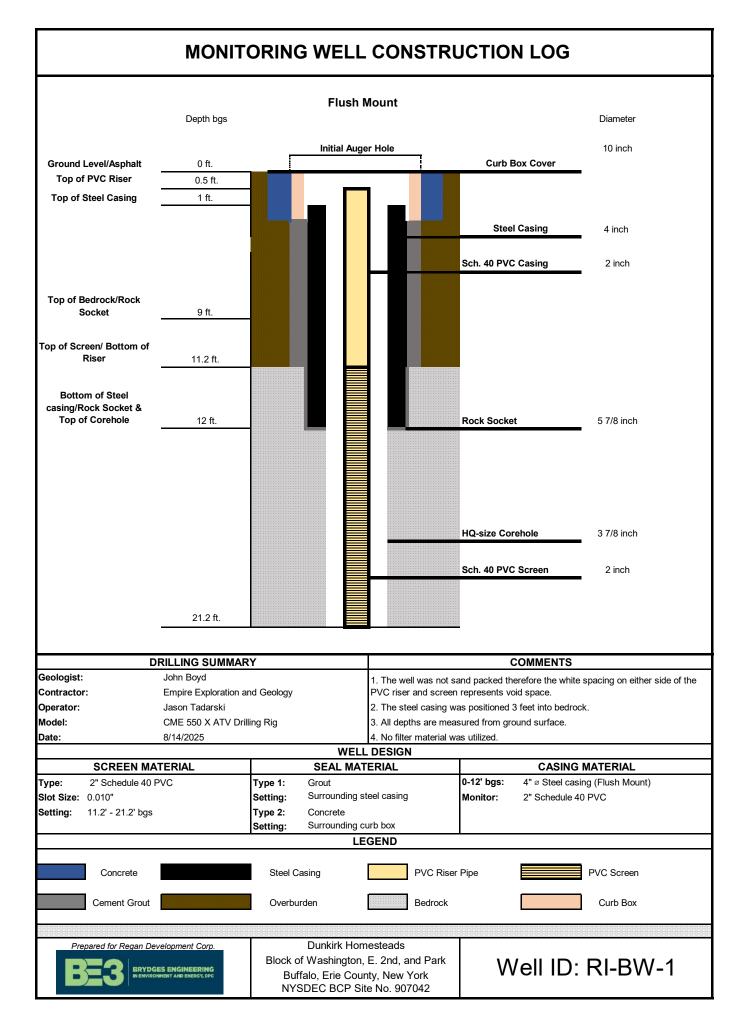
BORING LOCATION: STP-4 W DRILLING CONTRACTOR: Empire Exploration and Geology DRILLING METHOD: Direct Push EXCAVATION EQUIPMENT: Geoprobe Model 7720DT BRYDGES ENGINEERING IN ENVIRONMENT	PROJECT: 2nd & Washing	gton Remedial Investigation	BORING LOG		
DESCRIPTION REMARKS DESCRIPTION REMARKS DESCRIPTION REMARKS DESCRIPTION REMARKS DESCRIPTION REMARKS DESCRIPTION REMARKS		<u> </u>			
DESCRIPTION REMARKS BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, ppc BRYDGES ENGINEERING IN ENVIRONMENT AND ENERGY, ppc BEAG Sample DESCRIPTION REMARKS FILL: brown clayey silt, trace ceramics and brick Fill: brown clayey silt, trace ceramics and brick To a service of the service		npire Exploration and Geology			
EXCAVATION EQUIPMENT: Geoprobe Model 7720DT LOGGED BY: PS DATE STARTED: 8/11/2025 Logged By: PS DESCRIPTION REMARKS PILL: brown clayey silf, trace ceramics and brick FILL: brown clayey silf, trace ceramics and brick					
DOSCED BY: PS DATE STARTED: 8/11/2025 ENGINEERING IN ENVIRONMENT AND ENERGY, DPC REMARKS O 1 2 3 4 5 6 7 8 9 10 11 12 13 13 14 15 16 17 18 19 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17 18 19 10 10 11 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18					
DATE STARTED: 8/11/2025 Sample					
FILL; brown clayey silt, trace ceramics and brick	DATE STARTED: 8/11/2025				
FILL; brown clayey silt, trace ceramics and brick	(feet) Sample Seading	DESCRIPTION	REMARKS		
 	0	FILL; brown clayey silt, trace cera brick	amics and		
Brydges Engineering in Environment and Energy, DPC Project No. C907051 Page 1 of 1	Brydges Engineering in Envir	Project No. C907051 Page 1 of 1			

Appendix D

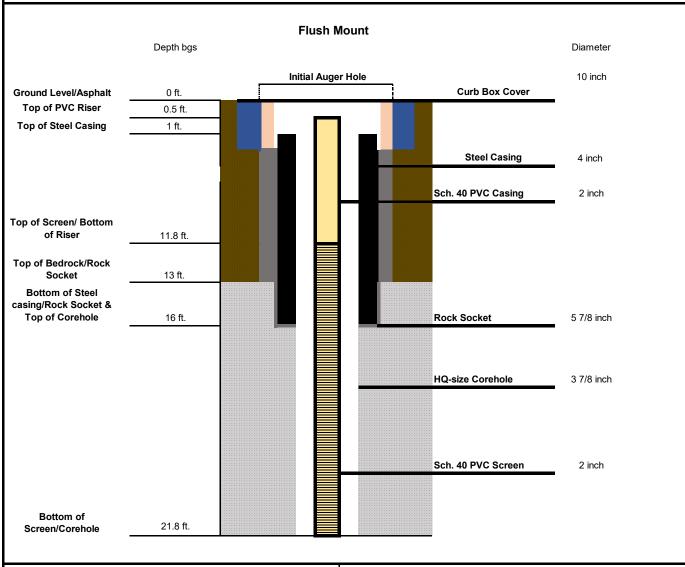
Bedrock Well Boring Logs-Overburden/Bedrock Well Construction Logs



PROJECT: **BEDROCK LOG** Block of Washington, East 2nd and Park RI BORING LOCATION: RI-BW-1 DRILLING CONTRACTOR: Empire Geo Exploration DRILLING METHOD: Hollow Stem Auger **EXCAVATION EQUIPMENT: CME 550 X ATV Rig** BRYDGES LOGGED BY: JB **IN ENVIRONMENT** DATE STARTED: 8/14/2025 **AND ENERGY, DPC** ROD (%) PID Reading DEPTH (feet) **PHOTOGRAPHY DESCRIPTION** 0 1-3. Overburden 5 8-9-10-Rock socket 11-12-Thinly banded medium gray shale; hard; intensely fractured into coarse gravel-sized 13pieces; natural fractures 14-Same lithology; natural fractures Same lithology; slightly fractured; mechanical 50 40 0 15 16-17 18 Same lithology; moderately – slightly fractured; 100 100 mechanical fractures 19 20-21-22-23 24-25-26-27-28-29-30-Brydges Engineering in Environment and Energy, DPC Project No. 8206 Page 1 of 1 PROJECT: **BEDROCK LOG** Block of Washington, East 2nd and Park RI BORING LOCATION: RI-BW-2 DRILLING CONTRACTOR: Empire Geo Exploration DRILLING METHOD: Hollow Stem Auger **EXCAVATION EQUIPMENT: CME 550 X ATV Rig** BRYDGES LOGGED BY: JB DATE STARTED: 8/14/2025 AND ENERGY, DPC ROD (%) PID Reading DEPTH (feet) **PHOTOGRAPHY DESCRIPTION** 0 1-3-5 Overburden 8-9-10-11-12-13-14-Rock socket 15-16 Thinly banded, medium gray shale; hard; numerous mechanical fractures 17-87 70 0 18 19 Same lithology; several natural fractures 0 20 99 84 0 Same lithology; all mechanical fractures 21-22-23-24-25-26-27-28-29-30-Brydges Engineering in Environment and Energy, DPC Project No. 8206 Page 1 of 1 PROJECT: **BEDROCK LOG** Block of Washington, East 2nd and Park RI BORING LOCATION: RI-BW-3 DRILLING CONTRACTOR: Empire Geo Exploration DRILLING METHOD: Hollow Stem Auger **EXCAVATION EQUIPMENT: CME 550 X ATV Rig** LOGGED BY: JB DATE STARTED: 8/14/2025 **AND ENERGY, DPC** PID Reading ROD (%) DEPTH (feet) **PHOTOGRAPHY DESCRIPTION** 0 1-3-5 Overburden 0 8-9-10-11-12-13-14-Rock socket 15-16-17-Thinly banded, medium gray shale; hard; moderately - slightly fractured; no natural 18-100 100 fractures observed 19-20-21-22-100 100 Same lithology and fracturing 23 24-25-26-27-28-29-30-Brydges Engineering in Environment and Energy, DPC Project No. 8206 Page 1 of 1



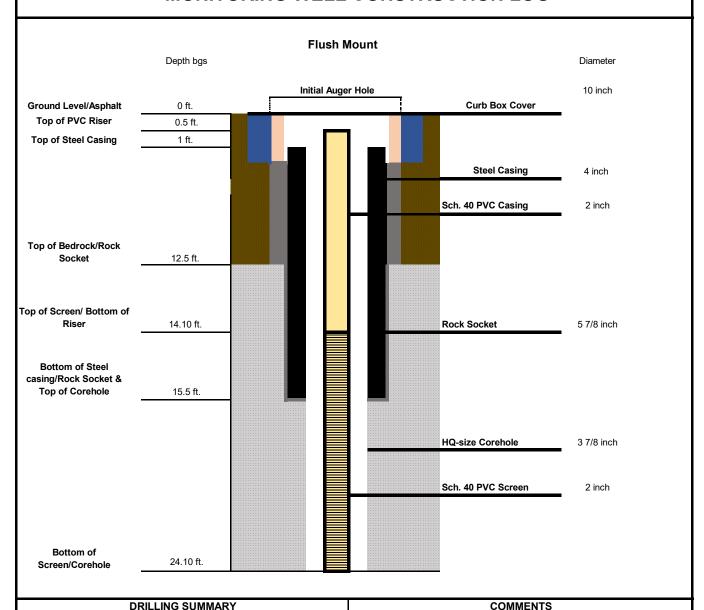
MONITORING WELL CONSTRUCTION LOG



DRILLING SUMMARY			COMMENTS			
Geologist: Contractor:	John Boyd : Empire Exploration			ot sand packed therefore the white spacing on either side of the reen represents void space.		
Operator:	Jason Tadarski	2. The steel casing w		/as positioned 3 feet into bedrock.		
Model:	CME 550 X ATV Dri	lling Rig	3. All depths are mea	asured from g	round surface.	
Date:	8/13/2025	4. No filter material w		vas utilized.		
		WELL	DESIGN			
	SCREEN MATERIAL	SEAL MATERIAL		CASING MATERIAL		
Type:	2" Schedule 40 PVC	Type 1: Grout		0-16' bgs:	4" ∅ Steel casing (Flush Mount)	
Slot Size:	0.010"	Setting: Surrounding steel casing		Monitor:	2" Schedule 40 PVC	
Setting:	11.8' - 21.8' bgs	Type 2: Concrete Setting: Surrounding co	urb box			
		LE	GEND			
	Concrete	Steel Casing	PVC Riser	r Pipe	PVC Screen	
Cement Grout		Overburden	Bedrock		Curb Box	
	16.0.0.1.10	Dunkirk Hom	voetoodo	Τ		
Prep	Dared for Regan Development Corp. BRYDGES ENGINEERING HENVIRONMENT AND ENERGY, DPC		Block of Washington, E. 2nd, and Park Buffalo, Erie County, New York		/ell ID: RI-BW-2	

Buffalo, Erie County, New York NYSDEC BCP Site No. 907042

MONITORING WELL CONSTRUCTION LOG

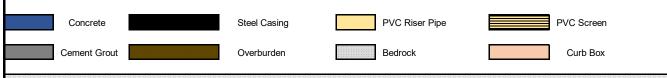


	2.0220000000000000000000000000000000000	
Geologist:	Tim Burmeier	1. The well was not sand packed therefore the white spacing on either side of the
Contractor:	Empire Exploration and Geology	PVC riser and screen represents void space.
Operator:	Jason Tadarski	2. The steel casing was positioned 3 feet into bedrock.
Model:	CME 550 X ATV Drilling Rig	3. All depths are measured from ground surface.
Date:	8/13/2025	4. No filter material was utilized.

WELL DESIGN

SCREEN MATERIAL		SEAL MATERIAL		CASING MATERIAL	
Type:	2" Schedule 40 PVC	Type 1:	Grout	0-15.5' bgs:	4" Ø Steel casing (Flush Mount)
Slot Size:	0.010"	Setting:	Surrounding steel casing	Monitor:	2" Schedule 40 PVC
Setting:	14.10' - 24.10' bgs	Type 2:	Concrete		
		Setting:	Surrounding curb box		

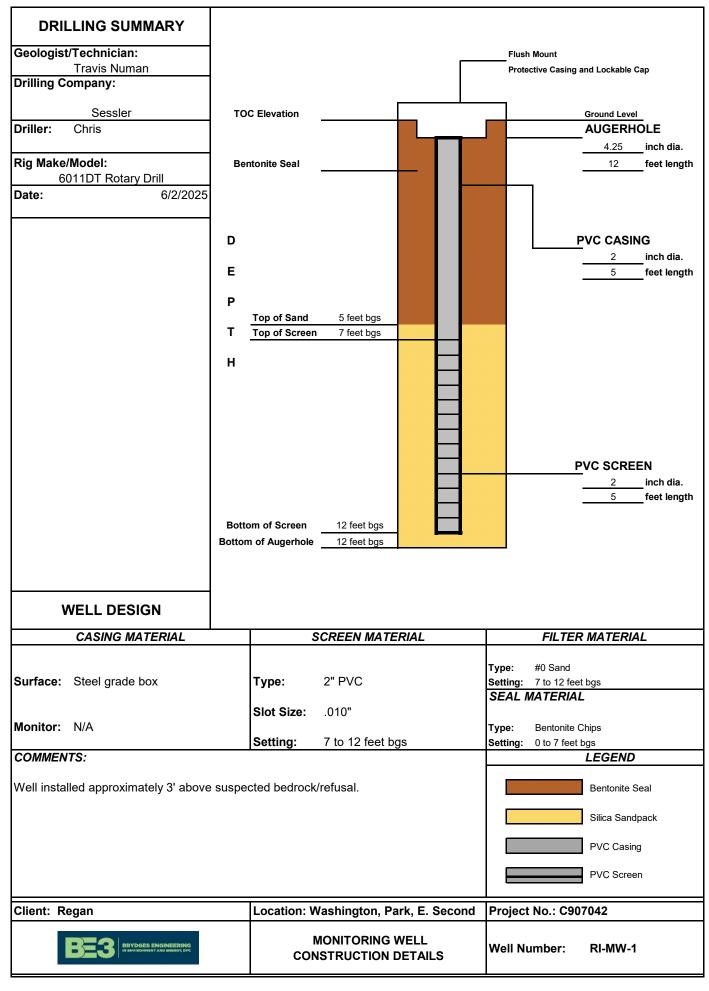
LEGEND

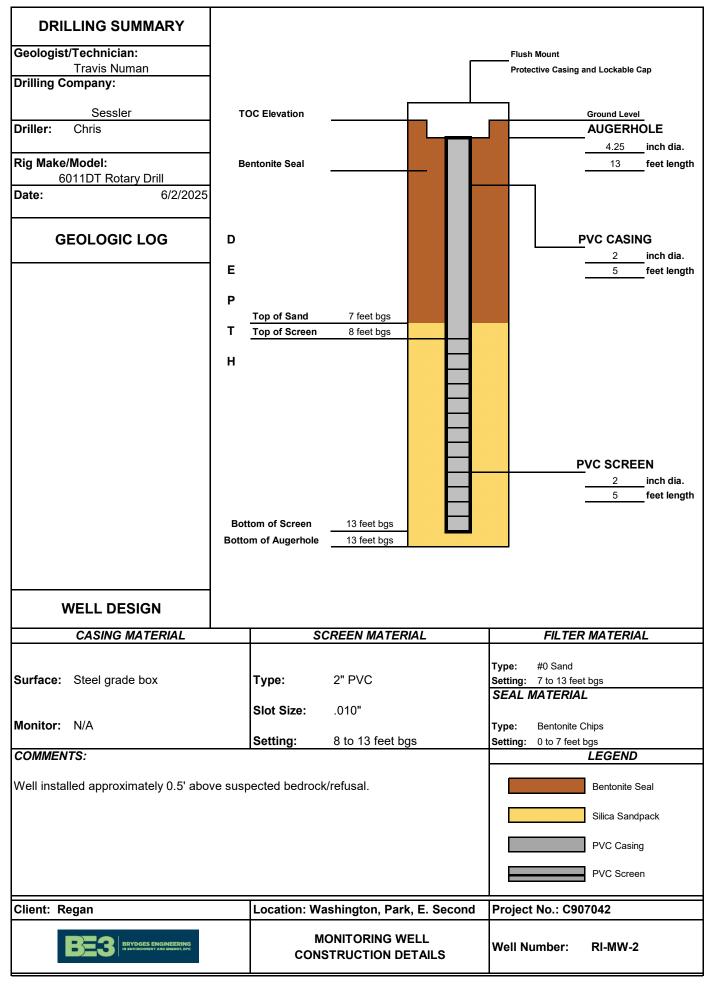


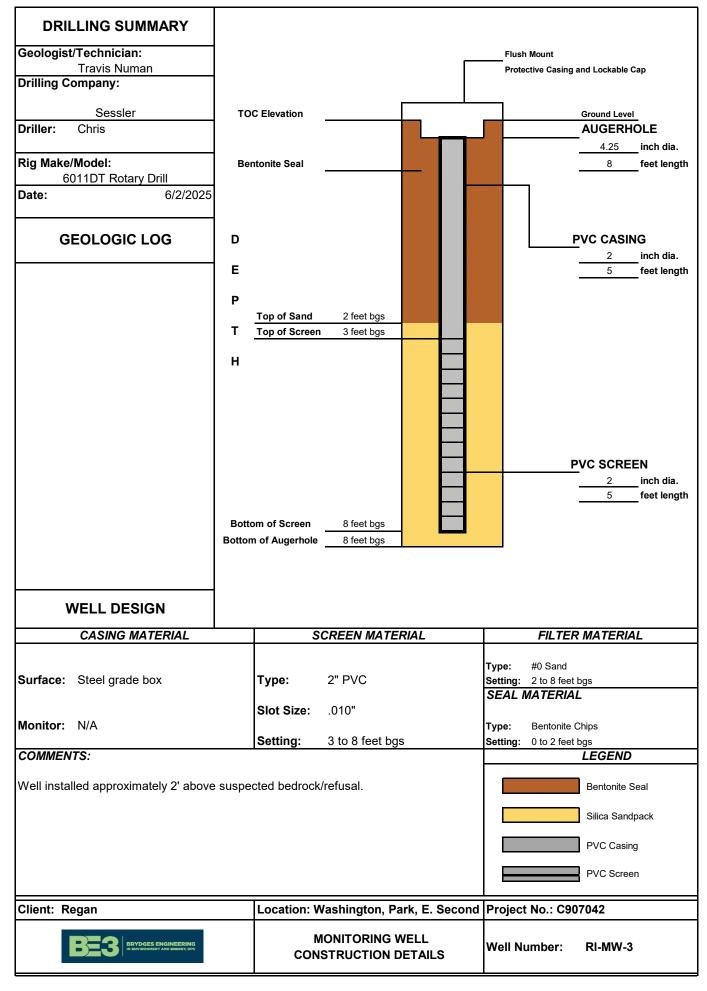


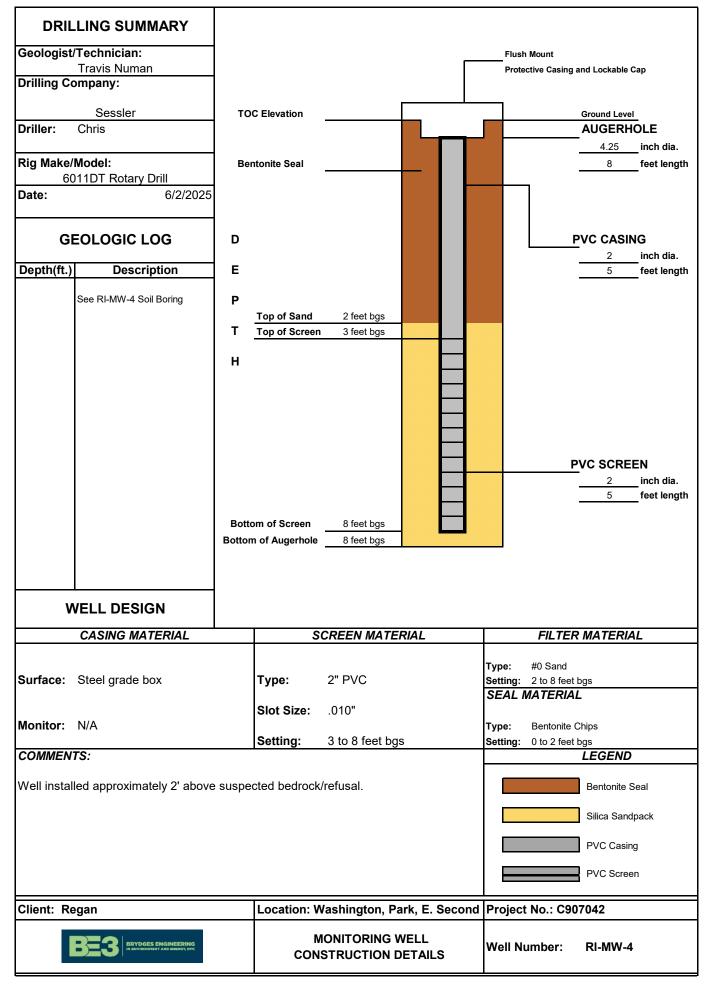
Dunkirk Homesteads Block of Washington, E. 2nd, and Park Buffalo, Erie County, New York NYSDEC BCP Site No. 907042

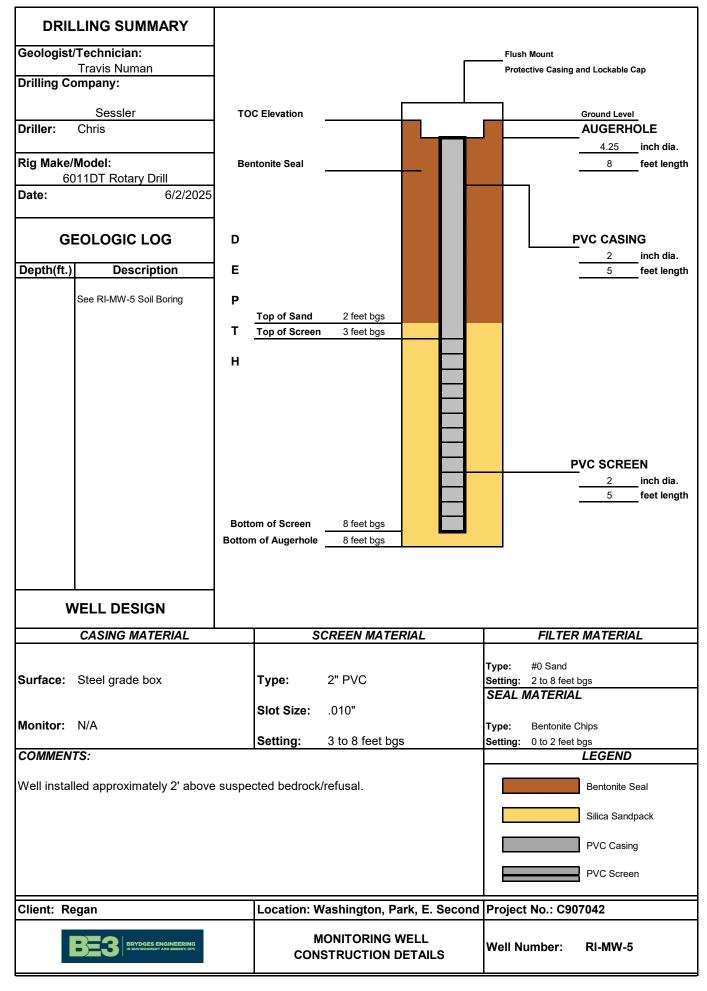
Well ID: RI-BW-3











Appendix E Well Development Logs





PROJECT TITLE: Block of Wasington, E. Second, and Park WELL NO.: RI-BW-1 PROJECT NO.: C907042 STAFF: Paul Staub DATE(S): 8/14/2025 and 8/18/2025 DEVELOPMENT METHOD: Low Flow Peristaltic Pump, HDPE Tubing, Minimonsoon 12V downwell Pump, HDPE Tubing VOL. (GAL/FT) WELL ID. 1. DEPTH TO WELL BOTTOM (FT. BTOR) 21.89 1" 0.04 2. WATER LEVEL BELOW TOP OF RISER (FT. BTOR) 10.87 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) 11.02 0.38 4. VOLUME OF WATER/FOOT OF CASING (GALLONS) 0.66 0.17 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) 1.87 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x x 3) 5.6202 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) 180.0 OR

V=0.0408 x (CASING DIAMETER)2

			ACC	UMULATI	D VOL	UME PI	JRGED (GALLO	NS)	
PARAMETERS	55	110	165	180						
рН	7.3	8.35	6.9	6.91						
TEMPERATURE (°C)	14.8	15.2	14.7	14.8						
SPEC. COND. (mS/cm)	1431	1249	1452	1451						
ORP (mV)	-33.8	-51.7	-19.4	-23.9						
DISSOLVED OXYGEN (mg/l)	8.88	3.98	5.39	5.15						
TURBIDITY (NTU)	454.99	181.86	58.72	48.85						
DEPTH TO WATER (btor)	11.51	12.01	11.87	11.65						
TIME	10:00 AM	13:00	15:30	14:10						
DATE	8	/14/2025		8/18/2025						

COMMENTS:

Approximately 180 gallons of water lost to subsurface during well installation



PROJECT TITLE: Block of Wasington, E. Second, and Park		WELL NO.:	RI-BW-2	
PROJECT NO.: <u>C907042</u>				
STAFF: Paul Staub				
DATE(S): 8/14/2025 and 8/18/2025				
DEVELOPMENT METHOD: Low Flow Peristaltic Pump, HDPE Tub	oing			
A DEDTUTO WELL DOTTOM/ET DTOD)		05.00	WELL ID.	VOL. (GAL/FT)
1. DEPTH TO WELL BOTTOM (FT. BTOR)	=	25.60	1"	0.04
2. WATER LEVEL BELOW TOP OF RISER (FT. BTOR)	=	20.89	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	4.71	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GALLONS)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.80	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x x 3)	=	2.4021	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	20.0		
			V=0.0408 x (CASIN	OR G DIAMETER)²

			ACC	UMULATE	D VOLU	IME PU	RGED (C	ALLON	IS)	
PARAMETERS	10	10								
рН	12.37	9.81								
TEMPERATURE (°C)	21.1	21.2								
SPEC. COND. (mS/cm)	5511	2102								
ORP (mV)	-50.7	-106.3								
DISSOLVED OXYGEN (mg/l)	5.17	8.23								
TURBIDITY (NTU)	988.1	201.8								
DEPTH TO WATER (btor)	20.89	20.91								
TIME	1:00 PM	13:00								
DATE	8/14/2025	8/18/2025								

COMMENTS:

Approximately 200 gallons of water lost to subsurface during well installation

Well was pumped dry and left to recharge contiunously throughout each day. Recharge was extremely slow.

Measurements are taken from top of riser which is approximatley 3.5' above ground surface. Riser will be cut down during final install.

PAGE __1_ OF __1_



PROJECT TITLE: Block of Wasington, E. Second, and Park WELL NO.: RI-BW-3 PROJECT NO.: C907042 STAFF: Paul Staub DATE(S): 8/14/2025 and 8/18/2025 DEVELOPMENT METHOD: Low Flow Peristaltic Pump, HDPE Tubing, Minimonsoon 12V downwell Pump, HDPE Tubing VOL. (GAL/FT) WELL ID. 1. DEPTH TO WELL BOTTOM (FT. BTOR) 24.10 1" 0.04 2. WATER LEVEL BELOW TOP OF RISER (FT. BTOR) 11.40 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) 12.70 0.38 4. VOLUME OF WATER/FOOT OF CASING (GALLONS) 0.66 0.17 5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) 2.16 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x x 3) 6.477 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) 130.0 OR

V=0.0408 x (CASING DIAMETER)2

			ACC	UMULAT	ED VOL	UME PI	JRGED (GALLO	NS)	
PARAMETERS	55	110	130						,	
рН	8.01	7.29	7.17							
TEMPERATURE (°C)	14.1	13.5	13.3							
SPEC. COND. (mS/cm)	1211	1027	1035							
ORP (mV)	-164.5	-144.4	-156.2							
DISSOLVED OXYGEN (mg/l)	9.54	8.25	7.9							
TURBIDITY (NTU)	387.86	26.8	28.82							
DEPTH TO WATER (btor)	11.4	11.41	11.52							
TIME	10:00 AM	11:00	15:30							
DATE	8/14/2025	8/18/	2025							

COMMENTS:

Approximately 120 gallons of water lost to subsurface during well installation



PROJECT TITLE: Block of Wasington, E. Second, and P	ark	WELL NO.:	RI-MW-2	
PROJECT NO.: <u>C907042</u>				
STAFF: Paul Staub				
DATE(S): 8/18/2025				
DEVELOPMENT METHOD: Low flow peristaltic pump, HDPE	Tubing			
1. DEPTH TO WELL BOTTOM (FT. BTOR)	=	13.00	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF RISER (FT. BTOR)	=	7.80	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	= .	5.20	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GALLONS)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.88	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x)	= .	2.652	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	5.0	8"	2.60
			V=0.0408 x (CASIN	OR IG DIAMETER)²

			ACC	UMULA	TED VC	LUME	PURGE) (GALL	ONS)	
PARAMETERS	0.7	1.2	2	3	4	5			-	
ΡΗ	8.23	6.9	6.84	6.8	6.79	6.78				
TEMPERATURE (°C)	14.4	14.2	14.3	14.3	14.3	14.2				
SPEC. COND. (mS/cm)	598	588	614	616	615	615				
ORP (mV)	49.9	120.9	106.3	21.2	-17.2	-29.4				
DISSOLVED OXYGEN (mg/l)	4.94	2.21	2.09	0.64	0.3	0.21				
TURBIDITY (NTU)	670.47	106.6	35.51	47.62	48.6	49.3				
DEPTH TO WATER (btor)	7.8	8.1	8.68	8.9	9.1	9.2				
TIME	9:50	10:00	10:15	10:30	10:45	11:00				

COMMENTS:

Appendix F
Purge Logs



Project:	Block of Wash	hington, E. Seco	nd, and Park	Site:	2nd & W	ashington	Well I.D.:	RI-BV	V-1	
Date:	8/18/2025	Sampling	Personnel:		Paul Staub		_ Company: _	BE3 C	orp	
Purging/ Sampling Device:	F	Peristaltic Pump)	Tubing Type:	HDPE +	Silicone	Pump/Tubing Inlet Location:	Middle of	Screen	
Measuring Point:	TOR Marking	Initial Depth to Water:	11.51	Depth to Well Bottom:	21.89	Well Diameter:	2 in	Screen Length:	10'	
Casing Type:	PV	С		Volume in 1 Well Casing (gallons):	1.8		Estimated Purge Volume (gallons):	40		
Sample ID:		RI-BW-1		Sample Time:	3:00) PM	QA/QC:			
Sample	e Parameters: _ -	Part 375	VOCs & TICs,	SVOC & TICs,	Metals, Pesti	cides, PCBs ,	PFA's, 1-4 Dioxa	ne, Total Cya	ınide	_
	-									_

PURGE PARAMETERS

TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
2:20 PM	6.97	14.9	1471.00	4.15	40.5	-25.9	-	11.60
2:40 PM	6.88	15.1	1481.00	2.15	15.6	-12.6	-	11.55
2:45 PM	6.89	15.1	1496.00	1.63	15.6	-8.9	-	11.55
2:50 PM	6.89	15.1	1492.00	1.62	15.6	-8.4		11.55
		+						
		+ -				ļ		
		+						
		+				 		
						 		
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft (vol_{cyl} = $\pi r^2 h$)

Remarks:

Project:	Block of Was	hington, E. Seco	nd, and Park	Site:	2nd & W	ashington	Well I.D.:	RI-BV	V-2
Date:	8/18/2025	Sampling	Personnel:		Paul Staub		_ Company: _	BE3 Co	orp
Purging/ Sampling Device:	1	Peristaltic Pump		Tubing Type:	HDPE +	Silicone	Pump/Tubing Inlet Location:	Middle of	Screen
Measuring Point:	TOR Marking	Initial Depth to Water:	20.89	Depth to Well Bottom:	25.60	Well Diameter:	2 in	Screen Length:	10'
Casing Type:	PV	'C		Volume in 1 Well Casing (gallons):	0.8		Estimated Purge Volume (gallons):	3	
Sample ID:		RI-BW-2		Sample Time:	4:00) PM	QA/QC:		
Sampl	e Parameters: _ -	Part 375	VOCs & TICs,	SVOC & TICs,	Metals, Pesti	cides, PCBs ,	PFA's, 1-4 Dioxa	ne, Total Cya	nide
	-								

PURGE PARAMETERS

TIME	pН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
3:25 PM	9.69	21.2	505.00	8.18	50.0	-106.2	-	20.90
3:30 PM	9.67	21.5	504.00	8.14	44.4	-112.6	-	11.55
3:40 PM	9.69	21.3	501.00	8.04	44.3	-108.5	-	11.55
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft (vol_{oy}1 = π 1²h)

Remarks:

Project:	Block of Wasl	hington, E. Seco	ond, and Park	Site:	2nd & W	ashington	Well I.D.:	RI-BV	V-3	
Date:	8/18/2025	Sampling	Personnel:		Paul Staub		_ Company: _	BE3 Co	orp	
Purging/ Sampling Device:	ſ	Peristaltic Pump)	Tubing Type:	HDPE +	Silicone	Pump/Tubing Inlet Location:	Middle of	Screen	
Measuring Point:	TOR Marking	Initial Depth to Water:	11.40	Depth to Well Bottom:	24.10	Well Diameter:	2 in	Screen Length:	10'	
Casing Type:	PV	rc		Volume in 1 Well Casing (gallons):	2.16		Estimated Purge Volume (gallons):	8		
Sample ID:		RI-BW-3		Sample Time:	1:10) PM	QA/QC:			
Sample	e Parameters: __ -	Part 375	VOCs & TICs,	SVOC & TICs,	Metals, Pesti	cides, PCBs ,	PFA's, 1-4 Dioxa	ne, Total Cya	ınide	_
	-									_

PURGE PARAMETERS

TIME	рН	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
12:40 PM	7.24	13.4	1036.00	8.09	36.3	-153.9	-	11.40
12:50 PM	7.21	13.4	1037.00	7.98	36.1	-156.4	-	11.45
12:55 PM	7.19	13.1	1034.00	8.08	31.3	-160.1	-	11.40
Tolerance:	0.1		3%	10%	10%	+ or - 10		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft (vol_{oy}1 = π 1²h)

Remarks:

Project:	Block of Was	hington, E. Seco	nd, and Park	Site:	2nd & W	ashington	Well I.D.:	RI-MV	V-2	
Date:	8/18/2025	Sampling	Personnel:		Paul Staub		_ Company: _	BE3 Co	orp	_
Purging/ Sampling Device:	ſ	Peristaltic Pump	,	Tubing Type:	HDPE +	Silicone	Pump/Tubing Inlet Location:	Middle of	Screen	
Measuring Point:	TOR Marking	Initial Depth to Water:	7.80	Depth to Well Bottom:	13.00	Well Diameter:	2 in	Screen Length:	10'	
Casing Type:	PV	'C		Volume in 1 Well Casing (gallons):	0.88		Estimated Purge Volume (gallons):	2		
Sample ID:	RI-MW-2, R	I-MW-2 MS, RI-	MW-2 MSD	Sample Time:	11:4:	5 AM	QA/QC:	MS/M	SD	
Sample	e Parameters: _ -	Part 375	VOCs & TICs,	SVOC & TICs,	Metals, Pesti	cides, PCBs ,	PFA's, 1-4 Dioxa	ne, Total Cya	nide	_
	-									

PURGE PARAMETERS

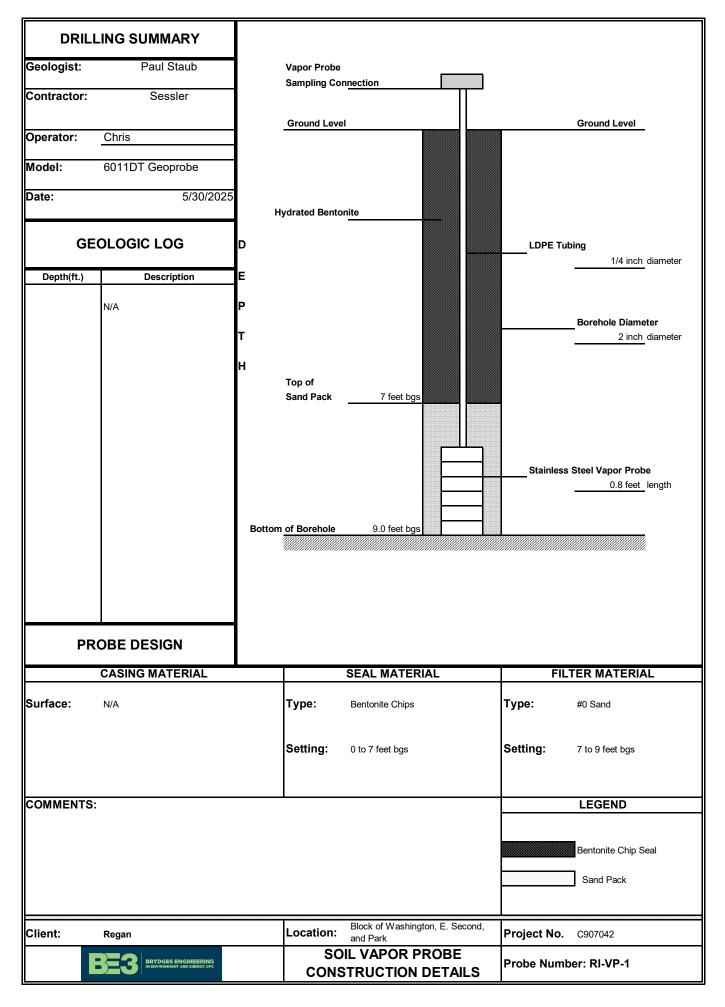
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
11:06 AM	6.75	14.4	614.00	1.00	14.1	-29.2	-	9.30
11:12 AM	6.76	14.3	618.00	0.38	15.3	-33.9	-	9.35
11:20 AM	6.77	14.4	618.00	0.33	19.9	-31.3	-	9.40
11:25 AM	6.76	14.4	617.00	0.35	20.1	-30.9		9.35
Tolerance:	0.1		3%	10%	10%	+ or - 10		

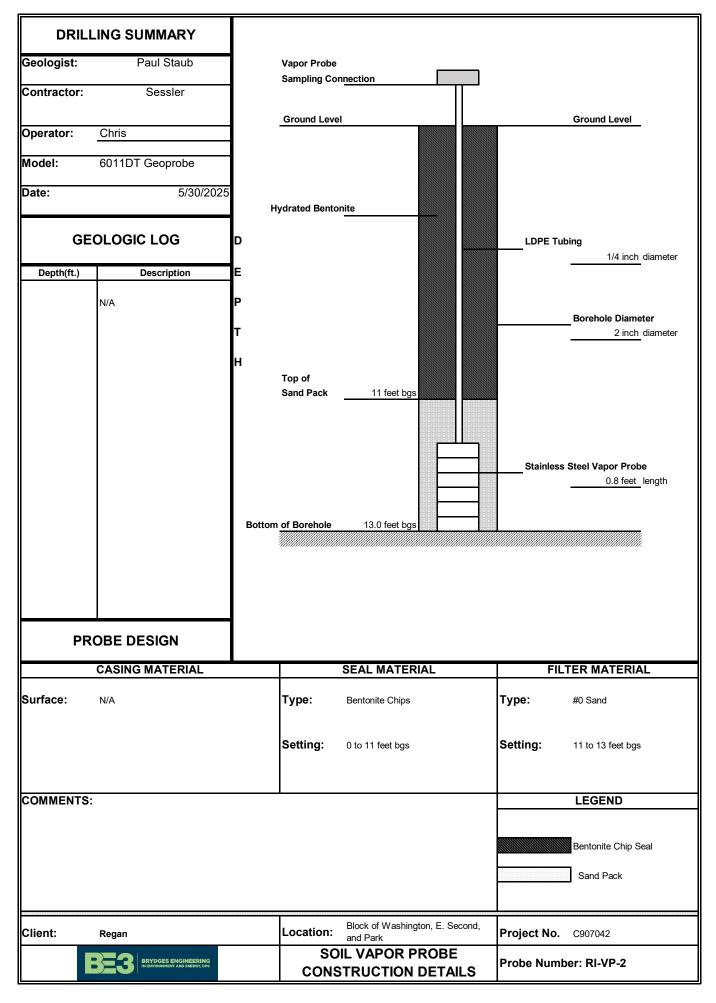
Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft (vol_{cyl} = $\pi r^2 h$)

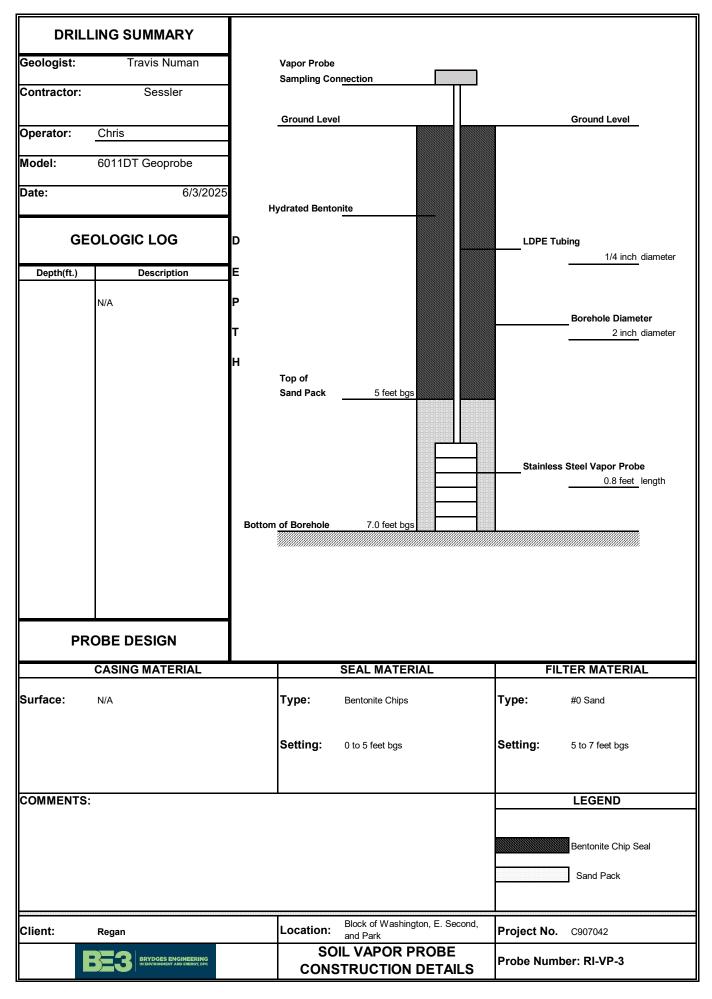
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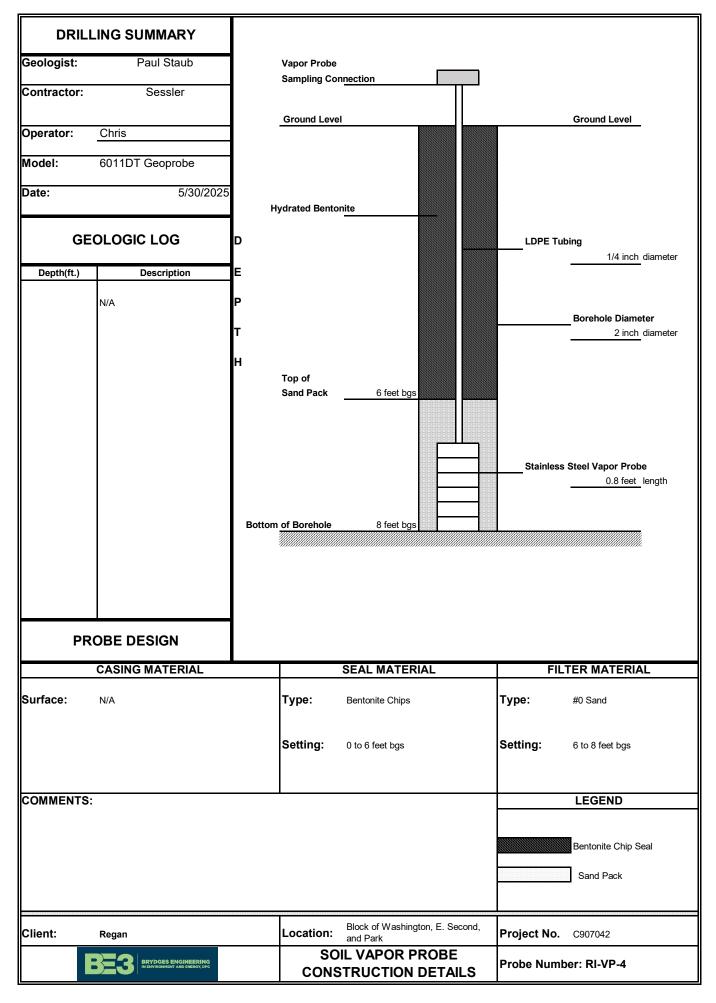
Appendix G Vapor Point Construction Logs

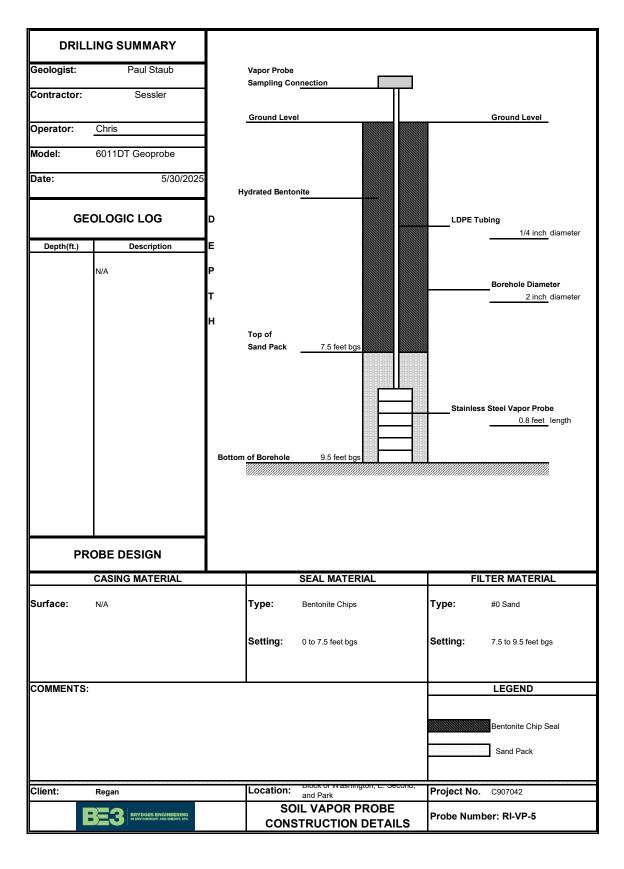


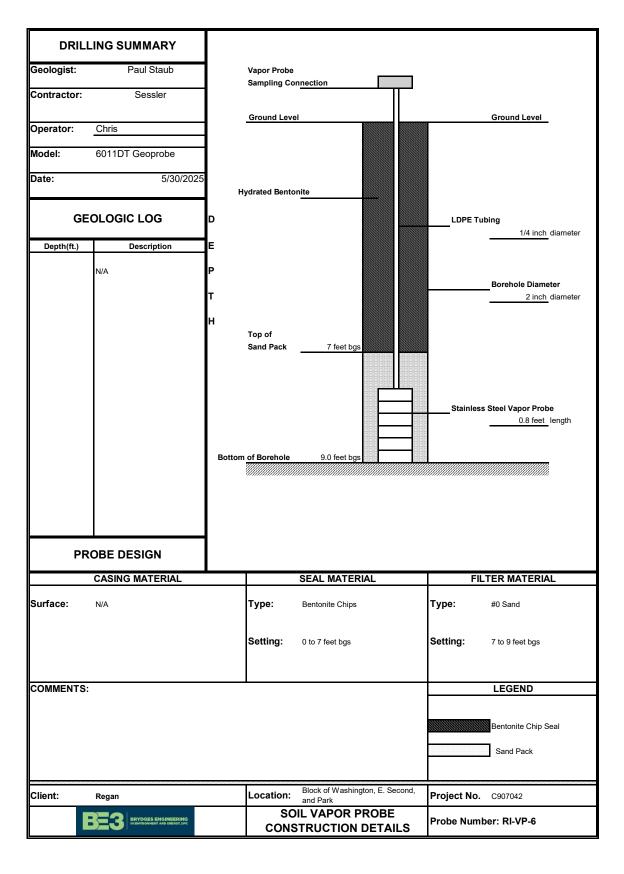


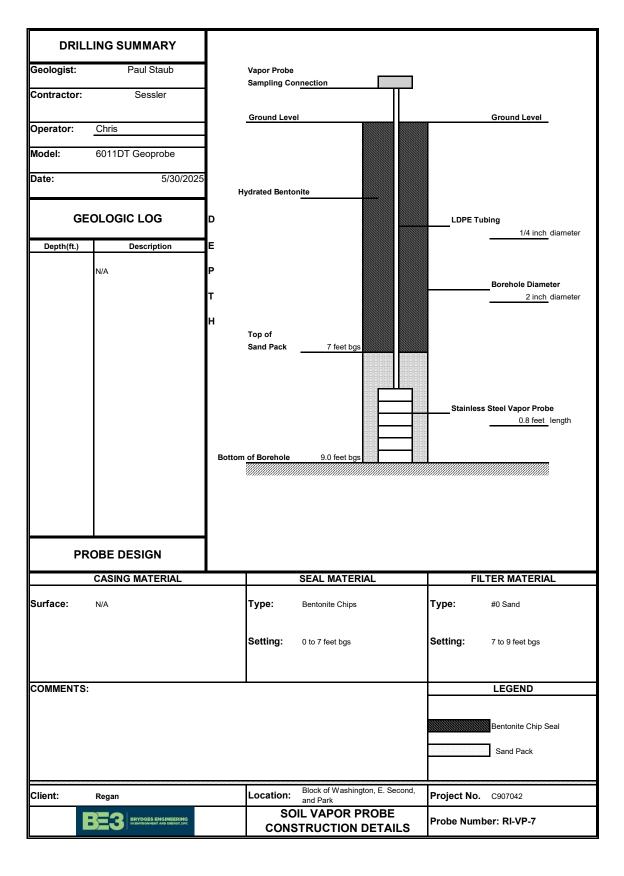


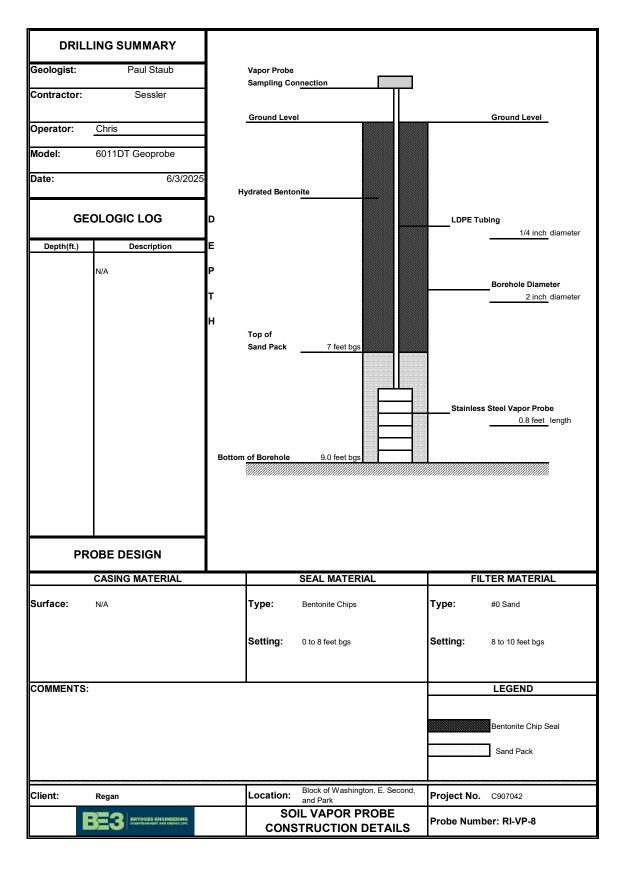












Appendix H DER-10 – Appendix 3C Decision Key



	Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key	If YES Go to:	If NO Go to:
1.	Is the site or area of concern a discharge or spill event?	13	2
2.	Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13	3
3.	Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4	9
4.	Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5
5.	Has the contamination gone off-site?	6	14
6.	Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7	14
7.	Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8
8.	Does contamination exist at concentrations that could exceed ecological impact SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14
9.	Does the site or any adjacent or downgradient property contain any of the following resources? i. Any endangered, threatened or special concern species or rare plants or their habitat ii. Any DEC designated significant habitats or rare NYS Ecological Communities iii. Tidal or freshwater wetlands iv. Stream, creek or river v. Pond, lake, lagoon vi. Drainage ditch or channel vii. Other surface water feature viii. Other marine or freshwater habitat ix. Forest x. Grassland or grassy field xi. Parkland or woodland xii. Shrubby area xiii. Urban wildlife habitat xiv. Other terrestrial habitat	11	10
10.	Is the lack of resources due to the contamination?	3.10.1	14
11.	Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14	12
12.	Does the site have widespread surface soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	12
13.	Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14.	No Fish and Wildlife Resources Impact Analysis needed.		

Appendix I Alternative Cost Estimates



REMEDIAL ALTERNATIVE COST ESTIMATES



ALTERNATIVE 1 - REMEDIATE TO TRACK 4 - RESTRICTED RESIDENTIAL					
Item	Unit Cost	Quantity	Total		
Mobilization/Demobilization (LS)	\$15,000	1	\$15,000		
Excavate/dispose - Existing slab,subbase, subsurface soil (2') (Tons)	\$60.00	6800	\$408,000		
Additional Excavate/dispose - New Build (Foundations') (Tons)	\$60.00	500	\$30,000		
Import Clean Fill/Placement greenspace- 2' (Tons)	\$25.00	2300	\$57,500		
Building Foundations (LS)	\$100,000.00	1	\$100,000		
8" Stone Fill - Building & Parking lot (Tons)	\$30.00	1500	\$45,000		
4" Asphalt Pavement (SF)	\$4.00	21500	\$86,000		
Delineation Fabric (SY)	\$1.35	6600	\$8,910		
Imported Clean Fill Assess Sampling (LS)	\$10,000	1	\$10,000		
Confirmation/Waste Sampling (LS)	\$10,000	1	\$10,000		
Vapor Mitigation System (SSDS)	\$150,000	1	\$150,000		
Sub-Total			\$920,410		
Engineering Oversight (5 Months) (LS)	\$300,000	1	\$300,000		
Sub-Total	. ,		\$1,220,410		
Contingency (10%)			\$122,041		
Estimated Capital Cost Total			\$1,342,451		
Total Cost	\$1,3	342,451.00			

Assumptions:

1) Conversion factor of cubic yards of soil/stone to tons is 1.5

ALTERNATIVE 2 - REMEDIATE TO TRACK 1 - UNRESTRICTED						
Item	Unit Cost	Quantity	Total			
Mobilization/Demobilization (LS)	\$15,000	1	\$15,000			
Excavate/dispose - 11+/-' Existing hardscape and soil to bedrock (Tons)	\$60.00	36200	\$2,172,000			
Import Clean Fill/Placement/Hardscape Minium 11' across the Site (Tons)	\$25.00	36200	\$905,000			
Building Foundations (LS)	\$100,000.00	1	\$100,000			
8" Stone Fill - Building & Parking lot (Tons)	\$30.00	1500	\$45,000			
4" Asphalt Pavement (SF)	\$4.00	21500	\$86,000			
Delineation Fabric (SY)	\$1.35	4700	\$6,345			
Imported Clean Fill Assess Sampling (LS)	\$20,000	1	\$20,000			
Confirmation/Waste Sampling (LS)	\$20,000	1	\$20,000			
Sub-Total			\$3,369,345			
Engineering Oversight (6 Months) (LS)	\$350,000	1	\$350,000			
Sub-Total			\$3,719,345			
Contingency (10%)			\$371,935			
Estimated Capital Cost Total			\$4,091,280			
Total Cost	\$4	,091,280				

Assumptions:

1) Conversion factor of cubic yards of soil/stone to tons is $1.5\,$

Appendix J

Pre-Demolition Asbestos Inspection Report



Pre-Demolition Asbestos Inspection Report



Project Location:

220 Washington Ave. – Two Story Brick Building 211 Park Ave. – Rear Barn Storage Building Dunkirk, NY 14048

Project ID: 25-0324CL-A

Conditions as of: March 24th, 2025

Prepared for:

Jason M. Brydges
President
Brydges Engineering in Environment and Energy, DPC
960 Busti Avenue, Suite B-150
Buffalo, New York, 14213

Prepared by:



AMD Environmental Consultants, Inc.

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April 3rd, 2025

Jason M. Brydges
President
Brydges Engineering in Environment and Energy, DPC
960 Busti Avenue, Suite B-150
Buffalo, New York, 14213

Re: Pre-Demolition Asbestos Inspection Report

220 Washington Ave. & 211 Park Ave.

Dunkirk, NY 14048

AMD Project ID: 25-0324CL-A

Mr. Brydges:

I am pleased to present this summary of asbestos survey services at the above referenced address.

AMD Environmental Consultants conducted a pre-demolition asbestos inspection at the above referenced locations on March 24th, 2025. The inspection was conducted for readily accessible building spaces for the two-story brick building located at 220 Washington Ave. & the rear barn storage building located at 211 Park Ave as outlined by the client. Asbestos containing materials (ACM) were identified above 1% in materials that were sampled. For more detail refer to the summary on page 4.

New York State asbestos regulations (12 NYCRR 56-5) require that asbestos surveys are conducted in order to determine whether or not the building or structure, or portion(s) thereof to be demolished, renovated, remodeled, contains asbestos containing building materials (ACBM), or presumed asbestos containing materials (PACM). These regulations also require that a copy of the pre-demolition survey be forwarded to the local New York State Department of Labor (NYSDOL) Asbestos Control Bureau immediately upon completion of the survey (Buffalo Office: 65 Court Street, Rm. 405, Buffalo, NY 14202). If requested to AMD in writing, a copy of the survey will be submitted on your behalf to the NYSDOL, otherwise a copy must be submitted by the owner.

AMD Environmental Consultants, Inc. surveys are intended to determine, to a reasonable extent, the presence, location, quantity, and condition of accessible asbestos containing materials (surfacing, thermal systems insulation, and miscellaneous materials). The information contained herein is representative of conditions found onsite during the date/time this survey was conducted. Environmental conditions, renovation, vandalism, etc. may alter conditions from the date/time that this survey was conducted, potentially creating new hazards.

Please do not hesitate to contact me if I may provide any additional information.

Sincerely,

Craig Libglid Field Supervisor

NYS Licensed Asbestos Inspector

Cert #23-61JKE-SHAB

Croix Lylin

AMD Environmental Consultants, Inc.

72 E Niagara St Suite 100 Tonawanda, NY 14150 Office: 716 833-0043 Fax: 716 241-8689 www.amdenvironmental.com

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- 1.0 Asbestos Inspection
 - 1.1 Introduction
 - 1.2 Executive Summary
 - 1.3 Purpose
 - 1.4 Methodology
- 2.0 Site Photographs
- 3.0 Site Map(s)
- 4.0 Laboratory Analytical Results
- 5.0 Sample Chain of Custody

APPENDIX

Appendix A: Firm Certification and Personnel License(s)

Appendix B: Laboratory Certification



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1.0 Asbestos Inspection

1.1 Introduction

AMD Environmental Consultants, Inc. (AMD) was retained by Brydges Engineering in Environment and Energy, DPC to inspect the buildings located at 220 Washington Ave. & 211 Park Ave. in Dunkirk, NY 14048 for the presence of materials suspected of containing asbestos for the planned demolition of the property. At minimum, all exterior suspect materials, and all interior suspect materials which make up flooring, walls, ceilings and thermal system insulation were reviewed and sampled where necessary.

AMD was assigned to:

- Locate suspect asbestos containing materials (ACM),
- Sample these materials to determine asbestos content, and
- Identify the locations and estimated quantities of the confirmed asbestos containing materials.

The information following this introduction details the amount of asbestos present in this facility and the location of the ACBM (asbestos containing building materials). Although the report is a comprehensive analysis of the asbestos inspection work performed, it would be helpful to review all applicable federal, state and local rules, laws and regulations regarding the handling and treatment of ACBM.

The following is a list of suggested reading and information sources relating to asbestos:

- New York State Department of Labor Industrial Code Rule 56
- National Emission Standard for Hazardous Air Pollutants (NESHAPS)
- Occupational Safety and Health Administration
- (OSHA 1926.1101, 1910.134, 1910.1020, 1910.1200, 1910.145, 1910.95, 1926.58)
- Environmental Protection Agency rule CFR763.46 Asbestos Hazard Emergency Response Act

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1.2 Executive Summary

The scope of services included the identification of suspect asbestos containing building materials for the planned demolition of the property; sampling and analysis of the suspect materials; and identifying the locations, estimated quantities, and condition of the confirmed asbestos containing materials. Sampling and analysis of the suspect materials under Polarized Light Microscopy (PLM), and where necessary, under Transmission Electron Microscopy (TEM), revealed the following materials as asbestos containing building materials (ACBM):

ASBESTOS CONTAINING MATERIALS SUMMARY FOR: 220 Washington Ave., Dunkirk NY 14048 (Two Story Brick Building)

HAN	Material Description	SID (Space Identification Number)	Estimated Quantity SF*	Friability/ Condition
306	Residual Floor Mastic	1009	2,200 SF	NF/D
601	Exterior Window Glazing – See Note 2	Exterior 2 nd Floor Windows (19 Windows Total)	<10 SF	NF/D
605	All Roofing Components –See Note 1	2-Story Brick Bldg. Roof System	5,160 SF	NF/D

^{*}Quantities are approximate, and are only associated with areas of planned renovation. Additional asbestos containing materials may be located outside areas of planned renovation that were not surveyed, assessed or quantified during this inspection.

Notes to Executive Summary and Homogenous Materials Tables:

Note 1: The roofing material (HAN605) has been assumed to be an Asbestos Containing Material at the time of the inspection due to limited access and safety concerns.

Note 2: The exterior window glazing (HAN601) on 2nd floor windows are on 19 windows and has approx. ¼ SF per window. The quantity provided is for the 2nd floor windows only as the first floor windows did not have window glazing.

KEY TERMS AND DEFINITIONS:

HAN= Homogenous Area Number; number assigned to categorize materials of like composition, texture and appearance SID=Space Identification Number: Sample Locations

Friability/Condition:

F= Friable: a material that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure, or is capable of being released into the air by hand pressure.

NF= Non Friable: a material that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure, or is incapable of being released into the air by hand pressure.

I= Intact: Asbestos material that has not crumbled, been pulverized, or otherwise been damaged or disturbed, and the material's matrix has not noticeably deteriorated.

D= Damaged: Asbestos material that has deteriorated or sustained physical injury demonstrated by separation of the ACM into layers, separation of the ACM from the substrate, flaking, blistering, crumbling, water damage, scrapes, gouges, or other signs of physical injury.

SD=Significantly Damaged: Damaged asbestos where the damage is extensive and severe.

ACM=Asbestos Containing Material: material analyzed and confirmed by laboratory to contain above 1% of asbestos

PACM= Presumed Asbestos Containing Material: this material was assumed to contain asbestos to either save the client on lab fees or because the material was adhered to another asbestos containing material (or adjacent to other materials needing abatement) and must be managed as such.

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1.3 Purpose

The purpose of the asbestos inspection was to identify and quantify the types of asbestos containing building materials (ACBM) for the planned demolition of the property. Samples of the suspect materials were collected for analysis by an independent laboratory, and the condition of each material noted in relation to its potential to be disturbed. The potential for fiber release was also considered.

The report is generated for the exclusive use of Brydges Engineering in Environment and Energy, DPC and their representatives or agents, and is not designed to serve as a specification for abatement. Before requesting bids for abatement of materials identified in this report, the owner is strongly encouraged to contract with a consultant to provide this valuable service. A specification assures that all contractors are bidding on the same methodology and following the specific requirements for the work to be performed.

The inspection was conducted by NYS DOL Certified Asbestos Inspector(s) Craig Libglid and Matt Beauregard on March 24th, 2025 and revealed the following suspect asbestos containing building materials:

HOMOGENOUS MATERIALS & SAMPLE RESULTS FOR: 211 Park Ave., Dunkirk NY 14048 (Rear Barn Storage Bldg.)

HAN	Suspect Asbestos Containing Material Description	SID (Space Identification Number)	Sample No.	ACM (Y/N)	Estimated Quantity SF*	Friability/ Condition
602	Vapor Barrier – Under Siding	Exterior Siding	602-1, 602-2	No	N/A	N/A

^{*}Quantities are approximate, and are only associated with areas of planned renovation. Additional asbestos containing materials may be located outside areas of planned renovation that were not surveyed, assessed or quantified during this inspection.

Notes to Executive Summary and Homogenous Materials Tables:

Note: The rear storage building was inspected and sampled to meet the upcoming demolition plans. The existing
roof system is metal on wood and therefore was not considered suspect to contain asbestos. The interior of the
structure did not have suspect materials, and consisted of wood only.

The above listed table provides a list of the materials that were sampled and tested for asbestos by Polarized Light Microscopy (PLM) and or Transmission Electron Microscopy (TEM), as applicable. Any sample determined to be a non-friable organically bound material (NOB), and which was found to be negative by Polarized Light Microscopy (PLM) analysis, was then analyzed by Transmission Electron Microscopy (TEM) analysis at ERA Analytical, LLC in Grand Island, New York. ERA Analytical, LLC is an ELAP Certified laboratory (ID: 12161) and conducts analysis according to EPA Method 198.1, 198.4 and 198.6. See Section 2.0 for the laboratory's analytical results.

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HOMOGENOUS MATERIALS & SAMPLE RESULTS FOR: 220 Washington Ave., Dunkirk NY 14048 (Two Story Brick Building)

HAN	Suspect Asbestos Containing Material Description	SID (Space Identification Number)	Sample No.	ACM (Y/N)	Estimated Quantity SF*	Friability/ Condition
101	Drywall	Throughout Building	101-1, 101-2	No	N/A	N/A
101A	Joint Compound	Throughout Building	101A-1, 101A-2	No	N/A	N/A
102	Ceramic Tile – Grout	1005, 1009	102-1, 102-2	No	N/A	N/A
102A	Ceramic Tile – Mastic	1005, 1009	102A-1, 102A-2	No	N/A	N/A
201	2" x 4" White Texture Ceiling Tile	1008	201-1, 201-2	No	N/A	N/A
202	2" x 2" Dot & Fissure Ceiling Tile	1004	202-1, 202-2	No	N/A	N/A
203	2" x 2" Dot Ceiling Tile	1005	203-1, 203-2	No	N/A	N/A
300	12" x 12 Floor Tile – Gray & White	1005, 1008, 1009	300-1, 300-2	No	N/A	N/A
300A	Mastic of HAN300 - Yellow	1005, 1008, 1009	300A-1, 300A-2	No <1.0%	N/A	N/A
301	Linoleum – Yellow & Gray	1000	301-1, 301-2	No	N/A	N/A
302	Carpet Mastic	1000, 1001, 1002, 1003, 1006, 2004, 2007	302-1, 302-2	No	N/A	N/A
303	12" x 12" Floor Tile – White	1000, 1001, 1002, 1003, 1006	303-1, 303-2	No	N/A	N/A
303A	Mastic of HAN303 – Black	1000, 1001, 1002, 1003, 1006	303A-1, 303A-2	No	N/A	N/A
304	12" x 12" Floor Tile - Blue / Gray		304-1, 304-2	No	N/A	N/A
305	Drywall Flooring	1004, 1005, 1008	305-1, 305-2	No	N/A	N/A
306	Residual Floor Mastic	1009	306-1, 306-2	Yes	2,200 SF	NF/D
307	Linoleum – Red Brick	2006	307-1, 307-2	No <1.0%	N/A	N/A
600	Window Glazing – Interior	2001	600-1, 600-2	No	N/A	N/A
601	Exterior Window Glazing - Note 2	Exterior 2 nd Floor Windows (19 Windows Total)	601-1, 601-2	Yes	< 10 SF	NF/D
605	All Roofing Components -See Note 1	Exterior Roof System	Sample Not Submitted	Yes	5,160 SF	NF/D

Notes to Executive Summary and Homogenous Materials Tables:

Note 1: The roofing material (HAN605) has been assumed to be an Asbestos Containing Material at the time of the inspection due to limited access and safety concerns.

Note 2: The exterior window glazing (HAN601) on 2nd floor windows are on 19 windows and has approx. ¼ SF per window. The quantity provided is for the 2nd floor windows only as the first floor windows did not have window glazing.

General Note: The basement was not found to contain materials suspected of containing asbestos on the date of the inspection.



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The above listed table provides a list of the materials that were sampled and tested for asbestos by Polarized Light Microscopy (PLM) and or Transmission Electron Microscopy (TEM), as applicable. Any sample determined to be a non-friable organically bound material (NOB), and which was found to be negative by Polarized Light Microscopy (PLM) analysis, was then analyzed by Transmission Electron Microscopy (TEM) analysis at ERA Analytical, LLC in Grand Island, New York. ERA Analytical, LLC is an ELAP Certified laboratory (ID: 12161) and conducts analysis according to EPA Method 198.1, 198.4 and 198.6. See Section 2.0 for the laboratory's analytical results.

1.4 Methodology

All work performed by AMD Environmental Consultants, Inc. was conducted in accordance with applicable regulations, including New York State Department of Labor standards 12NYCRR Part 56, National Emission Standards for Hazardous Air Pollutants (NESHAPS), and Occupational Safety and Health Administration regulations 29CFR1910.1101 and 29CFR1910.134. All AMD personnel assigned to conduct inspections have completed the Environmental Protection Agency (EPA) required training and New York State Department of Labor Division of Safety and Health certification program.

Each suspect asbestos containing building material (ACBM) was assigned a homogenous area number (HAN). Homogeneous areas consist of materials of like composition, texture and appearance.

Based on the homogeneous areas, samples of suspect materials were collected. Techniques used for sample collection were designed to minimize damage to suspected areas, reduce any potential for fiber release, and ensure the safety of the inspector and building occupants. Samples were collected by AMD personnel using the following procedures:

- 1. The surface to be sampled was sprayed with amended water (detergent and water) as necessary
- 2. A plastic sample bag was held to the surface sampled
- 3. The sample was collected using tools appropriate to the friability of the material sampled
- 4. Sample bags were labeled with a unique sample identification number
- 5. Samples were recorded on a Chain of Custody form, and submitted under strict chain-of-custody procedures to ERA Analytical, LLC in Grand Island, New York. ERA Analytical, LLC is an ELAP and NYSDOH approved, certified laboratory for PLM and TEM analysis (ELAP ID: 12161).

Samples were first analyzed using PLM, Polarized Light Microscopy in accordance with US Environmental Protection Agency Interim Method, 40CFRPt763, Supt F, App A(7-1-87). For the sample results not considered definitive, additional analysis was performed under Transmission Electron Microscopy (TEM) in accordance with NYSDOH ELAP Item 198.4, for Non-Friable Organically Bound Bulk Material (NOB). The results of these analyses confirmed whether or not a suspect material actually contained asbestos. All materials sampled are summarized in Section 1.3 of this report; the presumed asbestos containing materials and materials containing asbestos above 1.0% are listed in Section 1.2.

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2.0 Site Photographs

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Appendix I

Site Photographs





Location:

211 Park Ave - Farm Style Frame Building

Observation:

Overall existing exterior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were not identified for this building.



Location:

211 Park Ave - Farm Style Frame Building

Observation:

Overall existing exterior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were not identified for this building.

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Appendix I

Site Photographs





Location:

211 Park Ave - Farm Style Frame Building

Observation:

HAN602: Vapor Barrier – **Under Siding**

The material was not found to contain asbestos greater than 1.0%.



Location:

211 Park Ave - Farm Style Frame Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

Interior materials were not considered suspect and therefore did not require sampling.

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Appendix I

Site Photographs





Location:

220 Washington Ave2 Story Brick Building

Observation:

Overall existing exterior (front) conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were identified in some of the materials sampled for this building.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

HAN601: Exterior Window Glazing - 2nd floor windows

Asbestos was identified greater than 1.0% in the above referenced material sampled.

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Appendix I

Site Photographs



Location:

220 Washington Ave 2 Story Brick Building

Observation:

HAN306: Residual Mastic

Asbestos containing materials were identified in the above referenced material sampled.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

72 E Niagara St. Suite 100 Tonawanda, NY 14150

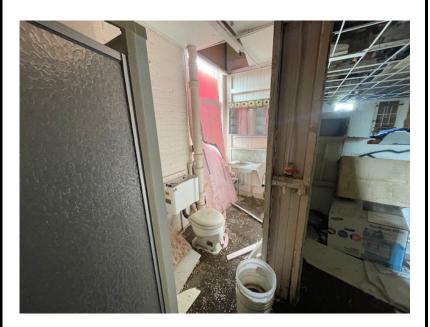
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Appendix I

Site Photographs





Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were identified in some of the materials sampled for this building.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

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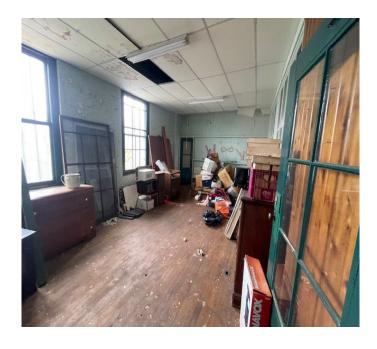
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Appendix I

AMD ENVIRONMENTAL

Site Photographs



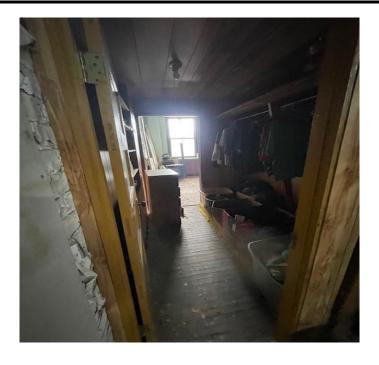
Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were identified in some of the materials sampled for this building.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

72 E Niagara St. Suite 100 Tonawanda, NY 14150

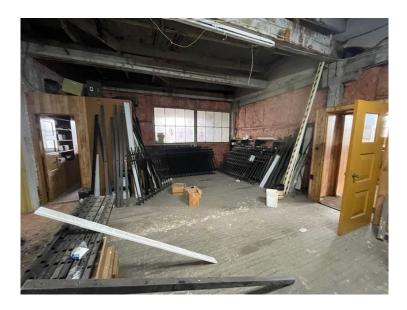
Office: 716-833-0043 Fax: 716-241-8689

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Appendix I

Site Photographs





Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were identified in some of the materials sampled for this building.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

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Appendix I

Site Photographs



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were identified in some of the materials sampled for this building.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

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Appendix I

Site Photographs



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were identified in some of the materials sampled for this building.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

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Appendix I

Site Photographs



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

Asbestos containing materials were identified in some of the materials sampled for this building.



Location:

220 Washington Ave 2 Story Brick Building

Observation:

Overall existing interior conditions of the inspection site as of 03/24/2025.

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3.0 Site Map(s)



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Aerial View of Inspection Sites:

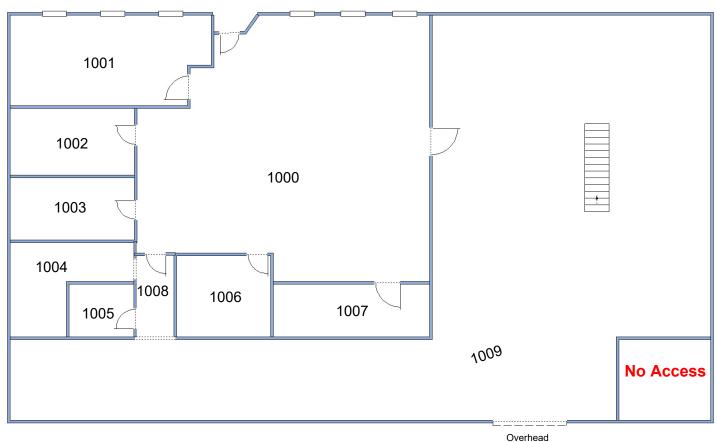


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Asbestos Inspection Key:

0000: Space Identification Number (SID)

Location: 220 Washington Ave., Dunkirk, NY 14048



First Floor Site Drawing

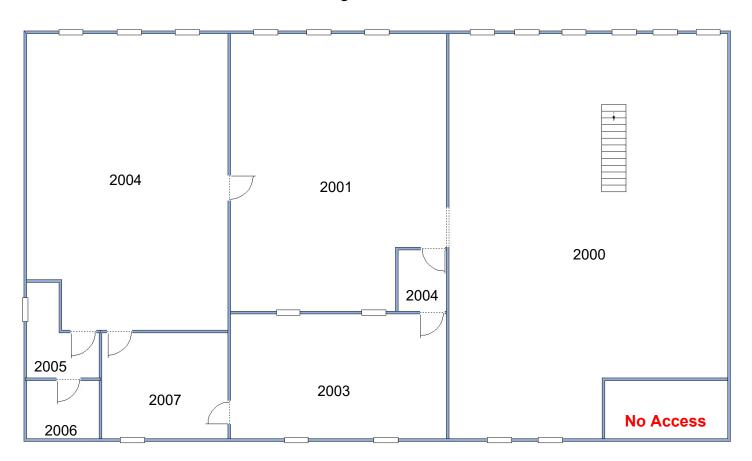
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Asbestos Inspection Key:

0000: Space Identification Number (SID)

Location: 220 Washington Ave., Dunkirk, NY 14048



Second Floor Site Drawing



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4.0 Laboratory Analytical Results



Client:

AMD

Job Number:

0611-25

Location:

208 Washington Ave.

Page Number:

1 of 7

Sample Date:

Dunkirk, NY 14048 3/24/2025

Sample Received Date: 3/25/2025

Sample D	ate:	3/24/2025			Sample Receive	eu Date.	3/25/2025				
Client ID	Lab ID	Sampling Location	Sample Color and Description	Sample Type	PLM Asbestos Type & Percentage	PLM Total Asbestos	PLM Non-A Fibers Ty Percent	pe &	TEM Asbestos Type & Percentage	TEM Total Asbestos	Non-Fibrous Matrix Percentage
101-1	6344	1000	Gray Drywall	Friable	No Asbestos Detected	0.0%	Cellulose	10.0%	N/A	N/A	90.0%
101-2	6345	1000	Gray Drywall	Friable	No Asbestos Detected	0.0%	Cellulose	10.0%	N/A	N/A	90.0%
101A-1	6346	1000	White Joint Compound	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%
101A-2	6347	1000	White Joint Compound	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%
102-1	6348	1005	White Ceramic Tile Grout	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%
102-2	6349	1005	White Ceramic Tile Grout	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%
102A-1	6350	1005	White Ceramic Tile Mastic	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%
102A-2	6351	1005	White Ceramic Tile Mastic	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%
201-1	6352	1008	Brown Ceiling Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
201-2	6353	1008	Brown Ceiling Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%

N/A - Not Applicable

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if these materials can be considered or treated as non-asbestos containing.

ELAP ID #12161

PLM Date Analyzed:

3/28/2025 A. Dembski

PLM Analyst: Microscope:

Olympus BH-2 #212311

TEM Date Analyzed:

3/30/2025 A. Dembski

TEM Analyst: Microscope:

Hitachi 600 AB #45-05

Asbestos Technical Director Amy Dembski

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Client:

AMD

Job Number:

0611-25

Location:

208 Washington Ave.

Page Number:

2 of 7

Sample Date:

Dunkirk, NY 14048 3/24/2025

Sample Received Date:

3/25/2025

Sample D	ate:	3/24/2025			Sample Receive	Received Date: 3/25/2025					
Client ID	Lab ID	Sampling Location	Sample Color and Description	Sample Type	PLM Asbestos Type & Percentage	PLM Total Asbestos	PLM Non-A Fibers Ty Percent	pe &	TEM Asbestos Type & Percentage	TEM Total Asbestos	Non-Fibrou Matrix Percentage
202-1	6354	1004	Gray Ceiling Tile	NOB	Inconclusive No Asbestos Detected	No Asbestos 0.0%		N/A 0.0%		0.0%	100.0%
202-2	6355	1004	Gray Ceiling Tile	NOB	Inconclusive No Asbestos Detected	No Asbestos 0.0%		0.0%	No Asbestos Detected	0.0%	100.0%
203-1	6356	1005	Gray Celling Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
203-2	6357	1005	Gray Celling Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
300-1	6358	1008	Gray 12x12 Floor Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
300-2	6359	1008	Gray 12x12 Floor Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
300A-1	6360	1005	Yellow Mastic	NOB	<1.0% Residue Non-ACM PLM and TEM Not Required	N/A	N/A	N/A	N/A	N/A	N/A
300A-2	6361	1005	Yellow Mastic	NOB	<1.0% Residue Non-ACM PLM and TEM Not Required	N/A	N/A	N/A	N/A	N/A	N/A
301-1	6362	1000	Gray Linoleum	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
301-2	6363	1000	Gray Linoleum	NOB	Inconclusive No Asbestos Detected	Inconclusive No Asbestos 0.0%		0.0%	No Asbestos Detected	0.0%	100.0%

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is urrently the only method that can be used to determine if these materials can be considered or treated as non-asbestos containing.

ELAP ID #12161

PLM Date Analyzed:

3/28/2025 A. Dembski

PLM Analyst: Microscope:

Olympus BH-2 #212311

Results Approved By:

TEM Date Analyzed:

3/30/2025

Asbestos Technical Director

TEM Analyst:

A. Dembski

Amy Dembski

Microscope:

Hitachi 600 AB #45-05

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Client:

AMD

Job Number:

0611-25

Location:

208 Washington Ave.

Page Number:

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Sample Date:

Dunkirk, NY 14048 3/24/2025

Sample Received Date:

3/25/2025

ample D	ate:	3/24/2025			Sample Receive	d Date:	3/25/2025	-			
Client ID	Lab ID	Sampling Location	Sample Color and Description	Sample Type	PLM Asbestos Type & Percentage	PLM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage		TEM Asbestos Type & Percentage	TEM Total Asbestos	Non-Fibrou Matrix Percentage
302-1	6364	1002	Brown Carpet Mastic	NOB	Inconclusive No Asbestos Detected	0.0%	N/A 0.0%		No Asbestos Detected	0.0%	100.0%
302-2	6365	1002	Brown Carpet Mastic	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
303-1	6366	1000	White 12x12 Floor Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
303-2	6367	1000	White 12x12 Floor Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
303A-1	6368	1000	Black Mastic	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
303A-2	6369	1000	Black Mastic	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
304-1	6370	1005	Gray 12x12 Floor Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
304-2	6371	1005	Gray 12x12 Floor Tile	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%
305-1	6372	1004	Gray Drywall Flooring	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%
305-2	6373	1004	Gray Drywall Flooring	Friable	No Asbestos Detected	0.0%	N/A	0.0%	N/A	N/A	100.0%

N/A - Not Applicable

* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if these materials can be considered or treated as non-asbestos containing.

ELAP ID #12161

PLM Date Analyzed:

3/28/2025

PLM Analyst:

A. Dembski

Microscope:

Olympus BH-2 #212311

Results Approved By:

TEM Date Analyzed:

3/30/2025

A. Dembski

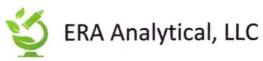
TEM Analyst: Microscope:

Hitachi 600 AB #45-05

Asbestos Technical Director

Amy Dembski

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Client:

AMD

Job Number:

0611-25

Location:

208 Washington Ave.

Page Number:

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Dunkirk, NY 14048

Sample Received Date:

3/25/2025

Lab ID	Sampling Location	Sample Color and												
		Description	Sample Type	PLM Asbestos Type & Percentage	PLM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage		Fibers Type &		Fibers Type &		TEM Asbestos Type & Percentage	TEM Total Asbestos	Non-Fibrou Matrix Percentage
6374	1009	Brown Residual Mastic	NOB	Inconclusive No Asbestos Detected	0.0%	N/A 0.0%		Tremolite 2.4%	2.4%	100.0%				
6375	1009	Brown Residual Mastic	NOB	Inconclusive No Asbestos Detected	0.0%	0.0% N/A 0		N/A 0.0%		Positive Stop Sample Not Analyzed	N/A	100.0%		
6376	2006	Red Linoleum	NOB	<1.0% Residue Non-ACM PLM and TEM Not Required		N/A N/A		N/A	N/A	N/A				
6377	2006	Red Linoleum	NOB	Inconclusive No Asbestos Detected	0.0% N/A 0.0%		No Asbestos Detected	0.0%	100.0%					
6378	2001	Tan Window Glazing	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%				
6379	2001	Tan Window Glazing	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	No Asbestos Detected	0.0%	100.0%				
6380	Ext. East Side	Gray Window Glazing	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	Anthophyllite 1.5%	1.5%	100.0%				
6381	Ext. East Side	Gray Window Glazing	NOB	Inconclusive No Asbestos Detected	0.0%	N/A	0.0%	Positive Stop Sample Not Analyzed	N/A	100.0%				
	6375 6376 6377 6378 6379	6375 1009 6376 2006 6377 2006 6378 2001 6379 2001 6380 Ext. East Side	6375 1009 Brown Residual Mastic 6376 2006 Red Linoleum 6377 2006 Red Linoleum 6378 2001 Tan Window Glazing 6379 2001 Tan Window Glazing 6380 Ext. East Side Gray Window Glazing	6375 1009 Brown Residual Mastic NOB 6376 2006 Red Linoleum NOB 6377 2006 Red Linoleum NOB 6378 2001 Tan Window Glazing NOB 6379 2001 Tan Window Glazing NOB 6380 Ext. East Side Gray Window Glazing NOB	6374 1009 Brown Residual Mastic NOB No Asbestos Detected 6375 1009 Brown Residual Mastic NOB Inconclusive No Asbestos Detected 6376 2006 Red Linoleum NOB	Brown Residual Mastic NOB No Asbestos Detected	1009 Brown Residual Mastic NOB No Asbestos Detected 0.0% N/A	1009 Brown Residual Mastic NOB No Asbestos Detected 0.0% N/A 0.0%	6374 1009 Brown Residual Mastic NOB No Asbestos Detected 0.0% N/A 0.0% Tremolite 2.4%	6374 1009 Brown Residual Mastic NOB No Asbestos Detected 0.0% N/A 0.0% Tremolite 2.4% 2.4% 6375 1009 Brown Residual Mastic NOB Inconclusive No Asbestos Detected 0.0% N/A 0.0% Positive Stop Sample Not Analyzed N/A 6376 2006 Red Linoleum NOB NO				

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if these materials can be considered or treated as non-asbestos containing.

PLM Date Analyzed:

3/28/2025

PLM Analyst:

A. Dembski

Microscope:

Olympus BH-2 #212311

Results Approved By:

TEM Date Analyzed:

3/30/2025 A. Dembski Asbestos Technical Director Amy Dembski

ELAP ID #12161

TEM Analyst:

Hitachi 600 AB #45-05

Microscope:

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Client:

AMD

Job Number:

0621-25

Location:

208 Washington Ave. Dunkirk, NY 14048

Page Number:

1 of 2

Sample Date:

3/24/2025

Sample Received Date:

3/25/2025

Sample D	ate:	3/24/2025			Sample Receive	ed Date:	3/25/2025		-	
Client ID	Lab ID	Sampling Location	Sample Color and Description	Sample Type	PLM Asbestos Type & Percentage	PLM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	TEM Asbestos Type & Percentage	TEM Total Asbestos	Non-Fibrous Matrix Percentage
602-1	6480	Ext. North Side	Black Vapor Barrier	NOB	Inconclusive No Asbestos Detected	0.0%	N/A 0.0%	No Asbestos Detected	0.0%	100.0%
602-2	6481	Ext. North Side	Black Vapor Barrier	NOB	Inconclusive No Asbestos Detected	0.0%	N/A 0.0%	No Asbestos Detected	0.0%	100.0%
						a				
		L	L		L		<u></u>			

N/A - Not Applicable

Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if these materials can be considered or treated as non-asbestos containing.

PLM Date Analyzed:

3/28/2025

PLM Analyst:

A. Dembski

Microscope:

Olympus BH-2 #212311

Results Approved By:

Asbestos Technical Director

Amy Dembski

ELAP ID #12161

TEM Date Analyzed: TEM Analyst: 3/28/2025 A. Dembski

Microscope:

Hitachi 600 AB #45-05

ERA Analytical, LLC is not responsible for the data supplied by an independent inspector. New York State Department of Health Environmental Laboratory Approval Program (ELAP) requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This report relates ONLY to the items tested as received by the lab. This report must not be used to claim product endorsement by NYS ELAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory or analysts' accuracy and precision) is available upon request.

Bulk asbestos analysis performed by NYSDOH ELAP Methods 198.1 'Polarized Light Microscope Methods for Identifying and Quantitating Asbestos in Bulk Samples', 198.4 'Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples', and 198.6 'Polarized Light Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples', and 198.6 'Polarized Light Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples' 28 20 Washington Ave. & 211 Park Ave., Dunkirk NY

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4.1 Analytical Key Terms and Definitions

PLM: Polarized Light Microscopy; type of analysis

TEM: Transmission Electron Microscopy; secondary analysis if applicable

NOB: Non-Friable Organically Bound; materials analyzed by PLM or TEM

NAD: No asbestos detected

NA: Not applicable

PS: Positive Stop

Trace: Less than 1% asbestos (Non ACM)

ACM: Asbestos Containing Material



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5.0 Sample Chain(s) of Custody

AMD
ENVIRONMENTAL

72 E. Niagara St. Suite 100

Lab (716) 833-0043 x104

Pulk Sampling

	M D NMENTAL		da, NY 14150 AP ID: 11108	fax (716) 2 labs@amde			Chain of Custody			
	D No.		BE 3 Client Name/Company Son M. Bry 19 Client Contact Client Phone Client Email	PS □ R □ III3 □ □ O Evening, wee	Please che USH [DAY [THER kend, & Ri]24 HR]5 DAY	Sample Date: 3/21/23 Analysis: PLM Positive Stop FEM			
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101-2	100				y wall		-46			
101A-1	100	0			COMP	ohal	-40			
101A-2	100	0			COMP		- 47			
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102-2	100	5				- 9tont	-49			
102A-1	100			(Chanil	Tile-	Mastic	-50			
102A-2	1005		4	(Ctani)	Tile-	Mastic	-51			
201-1	1008	3		-52						
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203-1	1003				DOE C		-5>			
203 - 2	1903				Dot	C·T·	-57			
natthew Beaut			A. Dombski	3 25 25	1510	Send Results: (Please Circle One)	Call w/ Results	E-mail Fax		
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Mother Stand	3/25/25	1500 (J. Sembo	Obl (-2)		Email/Phone/Fax: Lab Notes / Sample Conditi	on:			
Relinquished to Lab By (Signature) Date Time Drop Off			Lab Personnel Signature	Samples Preppe	d By:	€				
Site Notes:										



72 E. Niagara St. Suite 100 Tonawanda NY 14150

Lab (716) 833-0043 x104 fax (716) 241-8689

Bulk Sampling

ENVI	RONMENTAL		P ID: 11108	labs@amde			Chain of Custody			
Dun Rith City, Sta 25-03 Proje	ect ID No.		Client Phone (Please of Please of P]5 DAY 	Sample Date: 3/24/25 Analysis: PLM Positive Stop Samples analyzed by PLM according NYS ELAP 198.1			⊡ fEM
	rea/Work Area	Nation 1980	Client Email	in laboratory.	ALC: HOUSE OF			(m		
Sample No. (1 sample / line)	Sam	ple Location		Sar	mple Desci	ription		Sample ID	USE ONLY Samp	ole Condition
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300-2	100	-				12×12 F.T.		-59		
300A-1	100	5			-00					
300A-2	1005			Yellow 1	astic	ef 300		-61		
301-1	1000	·		Yellow +	Grab	Ling.		-42		
301-2	1000			Yellow +				- 47		
302-1	100%	2		tatpo	et masi	i (-44		
302-2	1002) 	Carpet mastic white 12x12 F.T.					-45		
303-1	1000				-66					
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303A-4	1000			Black,			f 303 - Y			
303A - 2	1000			Black 1	lastic c	of 303		-69		
304-1	1005					X12 F.T.	_	- 70		
304-2	1005				ras 12	XIZ F.T.		-71		
natther Be	antes y Mouth Mi	-A. Dembsk	Lab Use Only **	1510	Send Results: (Please Circle One)	Call w	v/ Results	E-mail	Fax	
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Site Notes:										
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Bulk Sampling Chain of Custody

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307-2	2006			Lino -				- 77		
600-1	2001		Wintow glazing - Inteliat					-78		
600-2	2001		Window 9 lazing - Interior					-79		
601-1	Ext. Ea	st size						- W		
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Matthew Blanks	f vw		** For Lab U	3 25 25	1510	Send Results: (Please Circle One)	Call w	/ Results I	E-mail	Fax
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Site Notes: Revised 1/31/2024										



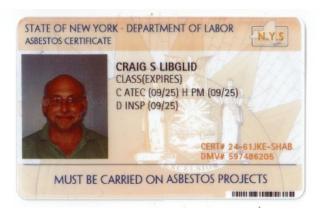
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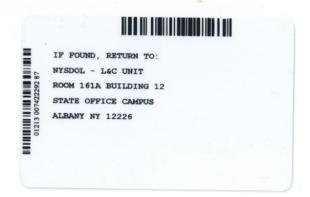
Bulk Sampling Chain of Custody

ENVI	RONMEN	TAL	NYS EL	AP ID: 11108		labs@amde	nv.com		Chain of Custody			
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Site Notes:												
Revised 1/21/2021												



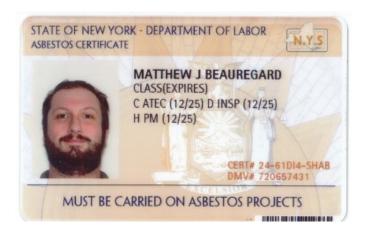
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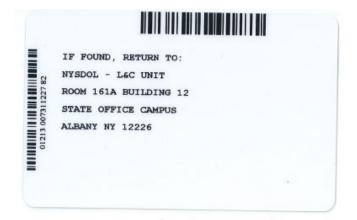






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Appendix A: Firm Certification and Personnel License(s)

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WE ARE YOUR DOL



DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

AMD Environmental Consultants, Inc. 72 E. Niagara Street, Suite 100, Tonawanda, NY, 14150

> License Number: 56177 License Class: RESTRICTED Date of Issue: 10/15/2024

Expiration Date: 11/30/2025

Duly Authorized Representative: Anthony DeMiglio

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Amy Phillips, Director For the Commissioner of Labor

SH 432 (12/21)



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Appendix B: Laboratory Certification

NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER



Expires 12:01 AM April 01, 2025 Issued April 01, 2024 Revised January 22, 2025

NY Lab Id No: 12161

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. AMY L. DEMBSKI ERA ANALYTICAL, LLC 3225 GRAND ISLAND BOULEVARD UNIT 7 GRAND ISLAND, NY 14072

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material Item 198.1 of Manual

EPA 600/M4/82/020

Asbestos in Non-Friable Material-TEM Item 198.4 of Manual



Serial No.: 69922

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/, by phone (518) 485-5570 or by email to elap@health.ny.gov.