SITE MANAGEMENT PLAN

280 WEST 155TH STREET DEVELOPMENT
NEW YORK COUNTY
NEW YORK, NEW YORK

NYSDEC Site Number: C231138

Prepared for:

280 W 155th Street Owner, L.L.C
c/o The Carlyle Group
1001 Pennsylvania Avenue NW
Washington, DC 20004

Prepared by:

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, New Jersey 07054

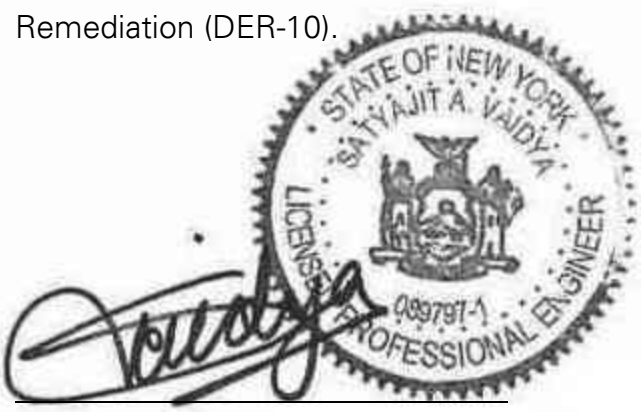
DECEMBER 2022
100765102

Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date

CERTIFICATION STATEMENT

I, Satyajit Vaidya, certify that I am currently a Professional Engineer as defined in 6 NYCRR Part 375 and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



Satyajit Vaidya, P.E.
NYS P.E. # 089797

21 December 2022
DATE

I, Christopher McMahon, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Christopher McMahon, NYS QEP

21 December 2022
DATE

TABLE OF CONTENTS

ES EXECUTIVE SUMMARY 8
1.0 INTRODUCTION 10
1.1 General 10
1.2 Revisions 11
1.3 Notifications 11
2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS 13
2.1 Site Location and Description 13
2.2 Physical Setting 14
2.2.1 Land Use 14
2.2.2 Geology 15
2.2.3 Hydrogeology 16
2.3 Investigation and Remedial History 16
2.3.1 Previous Environmental Reports 17
2.4 Remedial Action Objectives 25
2.5 Remaining Contamination 26
2.5.1 Soil 26
2.5.2 Groundwater 28
2.5.3 Soil Vapor 28
3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN 29
3.1 General 29
3.2 Institutional Controls 30
3.3 Engineering Controls 30
3.3.1 Site Cover System 30
3.3.2 Criteria for Completion of Remediation/Termination of Remedial Systems 31
3.3.2.1 Site Cover System 31
4.0 MONITORING AND SAMPLING PLAN 32
4.1 Site-Wide Inspection 32
4.2 Site Cover Inspection and Monitoring 34
4.3 Soil Vapor Intrusion Evaluation 34
5.0 OPERATION AND MAINTENANCE PLAN 35
6.0 PERIODIC ASSESSMENTS/EVALUATIONS 35
6.1 Climate Change Vulnerability Assessment 35
6.2 Green Remediation Evaluation 36
6.2.1 Timing of Green Remediation Evaluations 36
6.2.2 Frequency of Inspections, Sampling and Other Periodic Activities 37
6.3 Remedial System Optimization 37

7.0. REPORTING REQUIREMENTS....38
7.1 Site Management Reports....38
7.2 Periodic Review Report....40
7.2.1 Certification of Institutional and Engineering Controls....42
7.3 Corrective Measures Work Plan....43
7.4 Remedial Site Optimization Report....44
8.0 REFERENCES....44

Table of Contents (Continued)

List of Tables

Table 1 – Soil Cleanup Objectives
Table 2 – Hot Spot and Documentation Endpoint Soil Sample Analytical Results

List of Figures

Figure 1 – Site Location Plan
Figure 2 – Site Plan
Figure 3 – Remedial Excavation Extents Subsurface Profile
Figure 4 – Potentiometric Surface Map
Figure 5A – Post Excavation Sample Location Map and Elevations
Figures 5B through 5C – Post-Excavation Endpoint Documentation Soil Sample Analytical Results
Figure 6 – Composite Cover System Extents

List of Appendices

Appendix A – Environmental Easement
Appendix B – List of Site Contacts
Appendix C – Boring and Well Logs
Appendix D – Foundation Drawings
Appendix E – Excavation Work Plan
Appendix F – Health and Safety Plan
Appendix G – Community Air Monitoring Plan
Appendix H – Site Management Forms
Appendix I – Remedial System Optimization (RSO) Report

List of Acronyms

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
GHG	Greenhouse Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
P.E. or PE	Professional Engineer
PFAS	Per- and Polyfluoroalkyl Substances
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan

List of Acronyms

QEP	Qualified Environmental Professional
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSD	Sub-slab Depressurization
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

ES EXECUTIVE SUMMARY

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

Site Identification: 280 West 155th Street Development

Site No. C231138

Institutional Controls:	1. The property may be used for commercial use or industrial use;
	2. Require the remedial party or Site owner to complete and submit to the NYSDEC a periodic certification of IC/ECs in accordance with Part 375-1.9(h)(3);
	4. Allow for the use and development of the controlled property for commercial restricted use as defined in Part 375-1.8(g), although land use is subject to local zoning laws;
	5. Prohibits vegetable gardening and farming on the controlled property;
	6. Restrict the use of groundwater as a source of potable or process water, without the necessary water quality treatment as determined by the NYSDOH and/or the New York City Department of Health and Mental Hygiene (NYCDOHMH);
	7. Require compliance with the NYSDEC-approved SMP; and,
	8. All ECs must be inspected at a frequency and in a manner defined in the SMP.
Engineering Controls:	1. Composite Cover system

Site Identification: 280 West 155th Street Development

Site No. C231138

Inspections:	Frequency
1. Cover inspection	Annually
Maintenance:	
1. Composite Cover System	As needed
Reporting:	
1. Periodic Review Report (PRR)	Annually

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

1.0 INTRODUCTION

1.1 General

This Site Management Plan (SMP) is a required element of the remedial program for the 280 West 155th Street Development Site located at 2926 Frederick Douglass Boulevard in the Harlem Neighborhood of New York, New York (hereinafter referred to as the "Site"). See Figure 1. The Site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP), Site No. C231138, which is administered by New York State Department of Environmental Conservation (NYSDEC or Department).

The Volunteer, 280 W 155 ST OWNER LLC entered into a Brownfield Cleanup Agreement (BCA) on 2 January 2020 with the NYSDEC to remediate the Site. A figure showing the Site location and boundaries of this Site is provided in Figure 2. The boundaries of the Site are more fully described in the metes and bounds Site description that is part of the Environmental Easement provided in Appendix A. The BCA was amended on 4 April 2021 to reflect a change in ownership of the Site to 280 W 155th Street Owner, L.L.C. (Amendment #1) and an additional amendment was submitted on 12 August 2022 to reflect a change in address of the Site (Amendment #2).

After completion of the remedial work, some contamination was left at this site, which is hereafter referred to as "remaining contamination". Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the New York County Clerk, requires compliance with this SMP and all ECs and ICs placed on the site.

This SMP was prepared to manage remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6 NYCRR Part 375 and the BCA (Index No. C203125-01-20; Site No. C203125) for the site, and thereby subject to applicable penalties.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the Site is provided in Appendix B of this SMP.

This SMP was prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan), on behalf of 280 West 155 Owner, L.L.C., in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated 3 May 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs that are required by the Environmental Easement for the site.

1.2 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. The NYSDEC can also make changes to the SMP or request revisions from the remedial party. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shutdown of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the Site conditions. In accordance with the Environmental Easement for the site, the NYSDEC project manager will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.3 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER-10 for the following reasons:

1. 60-day advance notice of any proposed changes in Site use that are required under the terms of the BCA, 6 NYCRR Part 375 and/or Environmental Conservation Law.
2. 7-day advance notice of any field activity associated with the remedial program.
3. 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan. If the ground-intrusive activity qualifies as a change of use as defined in 6 NYCRR Part 375, the above mentioned 60-day advance notice is also required.
4. Notice within 48 hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
5. Notice within 48 hours of any non-routine maintenance activities.
6. Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
7. Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

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

8. At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the Brownfield Cleanup Agreement (BCA), and all approved work plans and reports, including this SMP.
9. Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

The table below includes contact information for the above notifications. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix B.

NYSDEC Notification Contact Information*

Name	Contact Information	Required Notification**
Meghan Medwid NYSDEC Project Manager	Telephone: (518) 402-8610 Email: meghan.medwid@dec.ny.gov	All Notifications
Heidi Dudek NYSDEC Project Manager's Supervisor	Telephone: 518-402-0193 Email: heidi.dudek@dec.ny.gov	All Notifications
Kelly Lewandowski NYSDEC Site Control	Telephone: (518) 402-0193 E-mail: kelly.lewandowski@dec.ny.gov	Notifications 1 and 8
Arunesh Ghosh NYSDOH Project Manager	Telephone: (518) 486-1443 Email: arunesh.ghosh@health.ny.gov	Notifications 4, 6, and 7

* Note: Notifications are subject to change and will be updated as necessary.

** Note: Numbers in this column reference the numbered bullets in the notification list in this section.

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

2.1 Site Location and Description

The Site is located at 2926 Frederick Douglass Boulevard in the Harlem neighborhood of Manhattan, New York and is identified as Block 2040 Lot 48. The Site is currently occupied by a three-story commercial self-storage building with a cellar level that is currently under construction. The building is anticipated to be occupied in the first quarter of 2023. The Site is an approximately 39,950-square-foot parcel and that is bound to the north by West 155th Street and the elevated 155th Street Viaduct associated with the Macomb's Dam Bridge followed by Holcombe Rucker Park; an asphalt-paved parking lot to the east; two single-story commercial/industrial buildings including a Toyota Automotive Repair facility and Ferguson Plumbing Supply store, two four-story mixed-use residential/commercial buildings, and two four- to six-story residential buildings to the south; and by Frederick Douglass Boulevard followed by a two-story mixed-use

residential/commercial building to the west. The boundaries of the Site are more fully described in Appendix A –Environmental Easement. A Site Location Map and Site Plan are included as Figures 1 and 2, respectively.

The owner of the Site at the time of issuance of this SMP is:

280 W 155th Street Owner, L.L.C.
c/o The Carlyle Group
1001 Pennsylvania Avenue NW
Washington, DC 20004

2.2 Physical Setting

2.2.1 Land Use

After remediation and upon completion of construction, the new development will consist of a three-story commercial self-storage building with a cellar. The cellar and first floor occupy approximately 31,930-square-feet and approximately 25,795-square-feet, respectively, of the approximate 39,950-square-foot property. The cellar through third floor contain self-storage units. A loading dock and office are located on the first floor. The area to the west of the building will be utilized as a paved driveway/parking area and the area to the south of the building is non-accessible space covered with imported stone. The proposed end-use of the development is consistent with existing zoning regulations.

The following is a summary of the adjoining and surrounding properties:

Direction	Adjacent Properties			Surrounding Properties
	Block No.	Lot No.	Description	
North	2105	1	West 155th Street followed by Holcombe Rucker Park (2930 8th Avenue)	Frederick Douglas Boulevard and Harlem River Drive Service Road followed by residential/commercial buildings
East	2040	43	NYCDOT Parking Lot (204 West 155th Street)	Parking lots and a commercial/office building

Direction	Adjacent Properties			Surrounding Properties
	Block No.	Lot No.	Description	
South	2040	5	True Colors Residence (269 West 154th Street)	A commercial/ office building, mixed residential/ commercial buildings, and West 154th Street followed by residential buildings and a public facility / institution
		6	True Colors Residence (267 West 154th Street)	
		7	Commercial/office building (251 West 154th Street)	
		21	Parking Lot (235 West 154th Street)	
West	2040	63	Residential building (2922 Frederick Douglass Boulevard)	Frederick Douglas Boulevard followed by mixed residential/ commercial building, residential buildings, a transportation / utility building, and a public facility / institution
		64	Residential building (2920 Frederick Douglass Boulevard)	
	2047	36	Frederick Douglas Boulevard followed by a mixed residential/commercial building (2923 Frederick Douglass Boulevard)	

2.2.2 Geology

According to the September 2020 survey prepared by Langan, site grade prior to redevelopment ranged from about el 11.64 to el 17.5 North American Vertical Datum of 1988 (NAVD88).

Based on the findings of the Remedial Investigation (RI) work completed by Langan, the Site, prior to remediation, was underlain by fill material predominantly consisting of fine to coarse sand with varying proportions of silt and gravel and miscellaneous debris, including brick, wood, asphalt, plastic, and metal beneath the surface cover to depths

ranging from about 12 to 15 feet below ground surface (bgs). According to the 1874 Sanitary & Topographical Map of the City and Island of New York by Egbert L. Viele, the Site is located in an area historically inundated by water associated with the Harlem River. The area was subject to historical filling using material of an unknown origin to raise grades prior to 1898 based on the review of the earliest available historical topographic maps.

Native soil encountered below fill predominantly consists of a soft upper clay unit, a medium dense silty sand unit, a medium-stiff to stiff lower clay unit, a dense to very dense sand and gravel unit, and weathered / decomposed rock. Due to the termination depth of the environmental soil borings, the clay layer was not consistently encountered during the RI, but was encountered beneath the fill at four soil borings at depths varying between 13.5 and 16 feet bgs. The clay layer and underlying stratigraphy were encountered beneath the fill at all soil borings installed during the 2019 geotechnical investigation. Marble, mica schist, and granite bedrock were encountered between 33 and 105 feet bgs in all of the geotechnical borings; bedrock was not encountered during the environmental investigations.

A geologic cross section is shown in Figure 3. Site specific boring logs are provided in Appendix C.

2.2.3 Hydrogeology

Monitoring wells installed during the Phase II Environmental Investigation (EI) and the RI revealed groundwater between 8.08 and 10.98 feet bgs corresponding to el 4.82 to el 6.82 NAVD88. Based on area topography, observed water level measurements, and the proximity of the Site to the Harlem River, groundwater is inferred to flow to the southeast towards the Harlem River.

A groundwater contour map is shown in Figure 4. Groundwater monitoring well construction logs are provided in Appendix C.

2.3 Investigation and Remedial History

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Reports referenced below are also listed in Section 8.0 - References.

2.3.1 Previous Environmental Reports

The following environmental assessment and investigation reports have been prepared for the Site:

- Phase I Environmental Study, prepared by Singer Environmental Group, Ltd. (Singer), dated August 1998
- Phase I Environmental Site Assessment (ESA), prepared by P.W. Grosser Consulting, Inc. (P.W. Grosser), dated December 2018
- Environmental Soil Pre-Characterization Results Letter, prepared by Langan, dated 3 July 2019
- Phase II Environmental Investigation Report, prepared by Langan, dated 19 July 2019
- Remedial Investigation Work Plan, prepared by Langan, dated 3 June 2020
- Phase I Environmental Site Assessment, prepared by Langan, dated 13 August 2020
- Interim Remedial Measures Work Plan, prepared by Langan, dated 10 May 2021
- Remedial Investigation Report, prepared by Langan, dated 19 June 2021
- Interim Remedial Measures Work Plan Addendum, Prepared by Langan, dated 19 August 2021.
- Remedial Action Work Plan, prepared by Langan, dated 28 September 2021.

Phase I Environmental Study – Singer Environmental Group Ltd. (1998)

Singer completed a Phase I Environmental Study for former Lots 61 and 62 identified as 2924 & 2926 Frederick Douglass Boulevard in 1998. The Phase I did not include former Lot 48. At the time of the assessment, the Site was operated as a parking lot. Based on Singer's assessment there was no evidence of heavy manufacturing, use and/or storage of chemicals or fuel supplies on the subject property or at adjacent properties. No recognized environmental concerns (RECs), historic recognized environmental concerns (HRECs), or business environmental risks (BERs) were identified on the property.

Phase I Environmental Site Assessment - P.W. Grosser Consulting, Inc. (2018)

P.W. Grosser completed a Phase I ESA for the Site in 2018. At the time of the investigation, the Site was operated as a parking lot. The ESA identified the following RECs associated with the Site:

- Historical site use as a steam laundry facility from approximately 1930 to 1980;
- Subject property identified as a Brownfield property;
- Historical use as automotive repair at adjacent properties;
- An active spill at 250 Bradhurst Avenue, located 0.7 miles upgradient of the Site; and
- Two active leaking USTs cases at the Jackie Robinson Rec Center, located upgradient of the Site.

Environmental Soil Pre-Characterization Investigation – Langan (2019)

Langan conducted a waste characterization investigation in 2019 for the Site as summarized in the 3 July 2019 Environmental Soil Pre-Characterization Results Letter, which was submitted to NYSDEC in Attachment C of the BCP Application. The scope of work included installation of 22 soil borings (LSB-1 through LSB-22) and collection of 15 composite soil samples.

Evidence of petroleum impacts including the presence of product and/or sheen and odor were encountered in soil at 5 of 22 soil boring locations at depths ranging from 6 to 12 feet bgs within the eastern portion of the Site. This area is in the vicinity of the former boiler room associated with the former steam laundry facility and the historical automotive repair and fuel storage area.

Laboratory analytical results revealed elevated concentrations of semi-volatile organic compounds (SVOCs) exceeding the NYSDEC Industrial Restricted Use Soil Cleanup Objectives (RUSCOs) including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Exceedances of the Commercial RUSCOs were also detected for the SVOCs benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Exceedances of the RUSCOs for metals include mercury, which was detected at a concentration exceeding the Industrial

RUSCO, and barium which was detected at concentrations exceeding the Commercial RUSCO.

Field observations and stratigraphy information obtained from these soil borings were considered for preparation of the Remedial Investigation Work Plan (RIWP) and are included in the subsurface profiles provided as Figures 3A and 3B.

Phase II Environmental Investigation – Langan (2019)

Langan conducted a Phase II EI for the Site in 2019 to assess potential subsurface impacts associated with historical use of the Site as a laundry facility with an associated boiler room, potential automotive repair operations with associated gasoline and fuel oil storage, and the presence of historic fill due to historical filling of the Harlem River to create land at the Site. Based on field observations and analytical results of soil, groundwater, and soil vapor samples collected, Spill No. 1902392 was reported to NYSDEC on 6 June 2019.

The scope of work and a detailed discussion of subsurface impacts identified in soil, groundwater, and soil vapor are presented in the July 2019 Phase II Environmental Investigation Report submitted to NYSDEC as part of the BCP Application approved on 2 January 2020. The investigation completed during the Phase II EI consisted of the following:

- Completion of 13 soil borings to between 12 and 15 feet below grade and collection of 14 soil samples (including one duplicate sample) to assess soil conditions;
- Installation and sampling of five monitoring wells in order to collect groundwater samples (including one duplicate sample) to assess Site groundwater conditions; and
- Installation and sampling of four soil vapor points in order to assess Site soil vapor conditions.

Findings of the Phase II EI are included in the discussion of the RI activities and results below.

June 2020 Remedial Investigation Work Plan – Langan (2020)

A RIWP dated 3 June 2020 was prepared by Langan. The RIWP was prepared to investigate and characterize "the nature and extent of the contamination at and/or emanating from the brownfield Site," per ECL Article 27, Title 14 (Brownfield Cleanup Program), to supplement the investigation activities and results documented in the Phase II EI including the horizontal delineation of NAPL within the southeastern portion of the Site, and to evaluate potential exposure via soil vapor intrusion at the buildings immediately adjacent to the site as required by the 24 April 2020 NYSDEC Draft RIWP Comment Letter for the 19 March 2020 Draft RIWP.

The scope of work for the RI presented in the RIWP consisted of:

- A geophysical survey throughout the Site;
- Advancement of 18 soil borings (LSB-36 through LSB-50 and LSB 52 through LSB-54) and collection of 38 soil samples (including two duplicate samples);
- Installation of four permanent monitoring wells (LMW-6 through LMW-9) and collection of 10 groundwater samples (including one duplicate sample) from LMW-1 through LMW 9;
- Survey and gauging of monitoring wells to evaluate groundwater elevation and flow directions; and,
- Installation of 14 soil vapor points (LSV-5 through LSV-18) and collection of 15 soil vapor samples (including one duplicate sample) and two ambient air samples.

Following the review of groundwater analytical results, a second round of groundwater sample collection was completed at seven of the nine monitoring wells on 26 February 2021 to further investigate AOC-3 and to evaluate contaminants in soil as a potential source of groundwater impacts.

The Remedial Investigation was completed between 27 August and 23 September 2020 and on 26 February 2021. Results of the RI are provided below.

Phase I ESA - Langan (2020)

Langan completed a Phase I ESA for the Site in 2020. At the time of the assessment, the Site operated as a parking lot. The Phase I ESA identified the following RECs and BERs associated with the Site:

- Open Spill No. 1902392 in the area of the historical automotive repair and associated fuel storage and in the vicinity of the boiler room associated with the former steam laundry facility was identified as a REC;
- CVOC impacts in soil vapor associated with historical site use as a steam laundry facility and for automotive repair was identified as a REC;
- Historical fill material associated with the filling of the former extents of the Harlem River on the Site was identified as a REC; and,
- The potential presence of undocumented underground storage tanks (USTs) based on historical Site operations for commercial purposes and historical approval for fuel oil use was identified as a BER.

Interim Remedial Measures Work Plan (2021)

An Interim Remedial Measures (IRM) Work Plan dated 10 May 2021 was prepared by Langan and approved by NYSDEC on 11 May 2021 for 280 West 155 Owner, L.L.C. The IRM Work Plan describes the procedures for decommissioning monitoring wells, excavation and disposal of fill material impacted with volatile organic compounds (VOCs), SVOCs, pesticides, polychlorinated biphenyls (PCBs), metals, and per- and polyfluoroalkyl substances (PFAS) to between 3 and 5 feet bgs as part of Site remediation activities, installation of support-of-excavation elements along the perimeter of the Site, and drilling for pile installation as part of the initial foundation construction.

Remedial Investigation Report (2021)

A Remedial Investigation Report dated 18 June 2021 was prepared by Langan to document the RI completed in August and September 2020 and February 2021 in accordance with the RIWP

The investigation completed during the RI consisted of the following:

- A Site-wide geophysical survey in the vicinity of soil boring locations, AOCs, and former Site features to investigate the location of subsurface structures and utilities;
- Advancement of 18 soil borings (LSB-36 through LSB-50 and LSB-52 through LSB-54) and collection of 32 soil samples (including two duplicate samples);
- Installation of four permanent monitoring wells (LMW-6 through LMW-9) and collection of 19 groundwater samples (including three duplicate samples);
- Survey and gauging of monitoring wells to evaluate groundwater elevation and flow direction; and
- Installation of 14 soil vapor sampling points (LSV-5 through LSV-18) and collection of 15 soil vapor samples (including one duplicate sample) and two ambient air samples.

In addition to the soil borings completed in accordance with the RIWP, an additional 4 borings were advanced for composite soil sample collection for waste characterization purposes. Analytical results of these composite soil samples were not used to support the findings of the RI; however, field observations and stratigraphy information are discussed herein.

The findings summarized herein are based on field observations and instrumental readings and laboratory analytical results of soil, groundwater, and soil vapor samples collected during the Phase II EI and RI. Cross-sectional diagrams showing inferred soil profiles are included as Figures 3A and 3B. Findings and conclusions are as follows:

1. Stratigraphy: A fill layer as deep as 25 feet is generally underlain by a clay layer. Bedrock was not encountered in any of the soil borings advanced during the Phase II EI or the RI. A detailed discussion of site geology is provided in Section 2.2.
2. Hydrogeology: Groundwater was encountered at elevations ranging from el 4.82 to 6.82 NAVD88. Based on area topography, observed water level measurements, and the proximity of the Site to the Harlem River, groundwater is inferred to flow to the southeast towards the Harlem River.

3. Petroleum Impacts: Light non-aqueous phase liquid (LNAPL) impacts in fill associated with historical Site operations including potential automotive repair and fuel storage and the former boiler room of the historical laundry facility were present across an approximately 9,300 SF area located in the eastern portion of the Site as observed in ten soil borings and two monitoring wells.

4. Fill Quality: Up to 25 feet of fill material was identified below surface cover. Contaminants identified within the fill material include SVOCs, metals, pesticides, PCBs, and PFAS, which were detected at concentrations above Unrestricted Use Soil Cleanup Objectives (SCOs), Commercial RUSCOs, and/or Protection of Groundwater (PGW) SCOs within this layer. Elevated concentrations of polycyclic aromatic hydrocarbons (PAHs), metals, pesticides, and PCBs in fill material are attributable to fill material of unknown origin.

5. Groundwater Quality: Elevated concentrations of PAHs and metals (antimony, lead, and mercury) are attributed to fill material of unknown origin. Other metals detected in groundwater above the SGVs (total and/or dissolved iron, manganese, magnesium and sodium) are attributed to naturally occurring background concentrations. The presence of PFAS in groundwater may be attributable to historical Site operations as a laundry facility or an off-Site source.

6. Soil Vapor Quality: Results of the soil vapor evaluation completed as part of the Phase II EI identified concentrations of tetrachloroethylene (PCE) that would require monitoring and/or mitigation per the NYSDOH Soil Vapor Intrusion Matrix guidance values. PCE was not detected above the NYSDOH guidance values in soil vapor during the RI or within soil or groundwater samples collected during either the 2019 and 2020 investigations above corresponding criteria. As no on-Site sources have been identified, PCE in soil vapor is attributed to an unknown off-Site source. Petroleum compounds including benzene, toluene, ethyl benzene, and xylenes (collectively referred to as BTEX compounds), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and methyl tert butyl ether (MTBE) were also detected in soil vapor and are attributed to the historical Site operations.

Interim Remedial Measures Work Plan Addendum (2021)

An IRM Work Plan – Addendum 1 dated 19 August 2021 was prepared by Langan and approved by the NYSDEC on 30 August 2021 for 280 W 155 St Owner LLC. The IRM Work Plan – Addendum 1 describes the procedures for excavation and disposal of fill material impacted with VOCs, SVOCs, pesticides, PCBs, metals, and PFAS to allow for

site utility connections (for construction dewatering purposes), construction of future building foundation elements, and the construction of a sloped berm. Additionally, this work plan provided procedures for the placement of the vapor barrier membrane and the collection of post-excavation soil samples in areas where excavation for redevelopment was completed during the implementation of the IRM Work Plan – Addendum 1.

Remedial Action Work Plan

A Remedial Action Work Plan dated September 2021 was prepared by Langan on behalf of 280 West 15 Owner, L.L.C. to summarize the nature and extent of contamination as determined from data gathered during the Phase II EI and RI and to select a remedy that is consistent with the procedures defined in DER-10 and complies with applicable standards, criteria, and guidance, as well as with applicable federal, state and local laws, regulations and requirements. A combined Track2/Track 4 cleanup was proposed, however, post-excavation sample analytical results revealed exceedances of the Track 2 Commercial RUSCOs. As such, a Track 4 Commercial Restricted Use Remedy was achieved for the remediation of the Site. The remedy included the following tasks:

1. Development and implementation of a CHASP and CAMP for the protection of on-Site workers, community/residents, and the environment during remediation and construction activities.

2. Excavation, stockpiling, off-Site transport, and disposal of soil exceeding Commercial RUSCOs.

3. Collection and analysis of documentation soil samples in accordance with DER-10 to document post-excavation conditions in relation to the Commercial RUSCOs.

4. Import of materials for backfill in compliance with the Commercial RUSCOs and PGW SCOs, Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 360 regulations; and federal, state, and local rules and regulations for handling and transport of material.

5. Construction of a cover system consisting of concrete slab and imported stone as an Engineering Control.

6. Establishment of use restrictions (i.e., institutional controls [IC]) including restricting Site use to commercial use or lower, prohibitions on the use of Site groundwater, and prohibitions on sensitive Site uses, such as farming or vegetable gardening in residual Site soil.

7. Establishment of an approved Site Management Plan (SMP) for the long-term management of EC and ICs, including the performance of periodic inspections and certification that the controls are performing as intended.

8. Recording of an Environmental Easement (EE) to provide for the maintenance of ECs and ICs as required.

The Remedial Action Work Plan was approved by NYSDEC in a letter dated 27 October 2021.

2.4 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site as listed in the Decision Document dated October 2021 are as follows:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Remove the source of ground or surface water contamination

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil

RAOs for Environmental Protection

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

Soil Vapor

RAOs for Public Health Protection

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

2.5 Remaining Contamination

2.5.1 Soil

Excavation was completed to between approximately 5 feet and 15 feet bgs to remove contaminated fill within the building footprint. Excavation was completed west of the building footprint to between approximately 4 and 15 feet bgs for the installation of the stormwater detention tanks. No excavation was completed to the south of the cellar footprint, which remains at street level below stone cover. One hundred and four documentation samples were taken throughout the site extents, which revealed that remaining contamination consists of PAHs and metals at concentrations exceeding the Track 4 Commercial RUSCOs and typical of fill material. The Track 4 Commercial RUSCOs are presented in Table 1. Analytical results for documentation soil samples are presented in Table 2 and summarized on Figures 5B through 5D. Soil sample locations and elevations are provided on Figure 5A.

<u>Analytes above the Commercial RUSCOs, Unrestricted Use SCOs, and/or Protection of Groundwater SCOs</u>

- SVOCs
  - Benzo(a)anthracene (1.1 mg/kg – 15 mg/kg)
  - Benzo(a)pyrene (1.1 mg/kg – 13 mg/kg)
  - Benzo(b)fluoranthene (1.1 mg/kg – 15 mg/kg)
  - Dibenzo(a,h)anthracene (0.34 mg/kg – 1.6 mg/kg)
  - Indeno(1,2,3-cd)pyrene (0.52 mg/kg – 10 mg/kg)
- Metals
  - Arsenic (17.6mg/kg – 95.7 mg/kg)
  - Copper (50.6 mg/kg – 6,990 mg/kg)
  - Lead (68.5 mg/kg – 2,530 mg/kg)
  - Mercury (0.188 mg/kg – 147 mg/kg)

Analytes above the Unrestricted Use SCOs and/or Protection of Groundwater SCOs

- VOCs
  - Acetone (0.051 mg/kg – 0.44 mg/kg)
- SVOCs
  - 3-Methylphenol/4-Methylphenol (0.34 mg/kg – 1.4 mg/kg)
  - Benzo(k)fluoranthene (0.83 mg/kg – 4.1 mg/kg)
  - Chrysene (1.1 mg/kg – 16 mg/kg)
  - Naphthalene (11.4 mg/kg)
- Metals
  - Selenium (3.9 mg/kg- 5.22 mg/kg)
  - Silver (11.4 mg/kg)

The PFAS compound perfluoocotanesulfonic acid (PFOS) (0.9 ug/kg – 4.2 ug/kg) was also detected at concentrations exceeding the June 2021 guidance values for Unrestricted Use and Protection of Groundwater.

Analytes above the Unrestricted Use SCOs

- SVOCs
  - Dibenzofuran (16 mg/kg)
- Pesticides
  - 4,4'-DDD (0.0048 mg/kg – 0.0166 mg/kg)
  - 4,4'-DDE (0.0035 mg/kg – 0.0226 mg/kg)
  - 4,4'-DDT (0.0042 mg/kg – 0.0503 mg/kg)
  - Dieldrin (0.0057 mg/kg – 0.0146 mg/kg)
- Polychlorinated Biphenyls
  - Total PCBs (0.121 mg/kg)
- Metals
  - Barium (372 mg/kg)
  - Cadmium (3.51 mg/kg – 5.57 mg/kg)
  - Trivalent Chromium (32 mg/kg – 280 mg/kg)
  - Nickel (33.3 mg/kg – 106 mg/kg)
  - Zinc (110 mg/kg – 1,330 mg/kg)

2.5.2 Groundwater

During the Phase II EI and RI, LNAPL associated with Spill No. 1902392 was encountered at two wells (LMW-2 and LMW-5) located within AOC-1. The VOC methyl tert butyl ether, a common fuel additive, was detected above the SGVs in two wells (LMW-3 and LMW-9) located cross-gradient from AOC-1. These observations and exceedances were addressed by the excavation of AOC-1 associated with Spill No. 1902392 to remove the source material of the impacts. The detection of total SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene at concentrations above the SGVs is attributed to sediment entrainment of fill in unfiltered groundwater samples. Analytical results for dissolved SVOCs revealed minimal exceedances above SGVs. The detection of total metals in groundwater above the SGVs including lead, antimony, and mercury is attributable to sediment entrainment of fill material of unknown origin in the unfiltered samples. Other metals detected in groundwater above the SGVs (total and/or dissolved iron, manganese, magnesium and sodium) are attributed to naturally occurring background concentrations. Total PFAS compounds were detected in soil and groundwater samples and may be attributable to historical Site operations as a laundry facility or an unknown off-Site source. Groundwater and Site use restrictions will be in compliance local zoning and city ordinances.

2.5.3 Soil Vapor

Soil vapor samples collected during the Phase II EI contained chlorinated VOCs, including PCE above the monitoring and/or mitigation threshold according to NYSDOH Soil Vapor Intrusion Guidance Matrix B. However, PCE was not detected above the referenced monitoring and/or mitigation threshold during the RI. The disparity in soil vapor concentrations of PCE between the Phase II EI and RI may be the result of lower barometric pressure during the Phase II EI.

No chlorinated VOCs were detected in groundwater or soil at the Site. Based on the Phase II EI and RI soil, soil vapor, and groundwater results, there is no on-Site source of contamination that would result in a soil vapor intrusion condition into a new building. The potential pathway for soil vapor intrusion into the building from off-Site sources is addressed by installation of a vapor barrier, which will prevent direct human exposure to residual impacted media that may migrate to the Site from an off-Site location.

A continuous vapor barrier system was installed as a green remediation construction measure, which will address any potential residual soil vapor emanating from off-Site sources. The GCP Applied Technologies vapor barrier system consists of a PrePrufe 300R Plus 46-mil grade membrane installed below concrete slab/foundation elements and PrePrufe 160R 32-mil grade along the eastern exterior of the subsurface foundation walls to the first-floor grade. GCP Bituthene 4000 60-mil grade membrane was installed along the exterior of subsurface foundation elements including the northern, southern, and western blind-side foundation walls to first-floor grade, pile cap transitions to exterior walls, and elevator pits.

3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN

3.1 General

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

This plan provides:

- A description of all IC/ECs on the Site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP) (as provided in Appendix D) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the Site; and

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

3.2 Institutional Controls

A series of ICs is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the Site to commercial restricted uses only. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. These ICs are:

- Require the remedial party or Site owner to complete and submit to the NYSDEC a periodic certification of IC/ECs in accordance with Part 375-1.9(h)(3);
- Allow for the use and development of the controlled property for commercial restricted use as defined in Part 375-1.8(g), although land use is subject to local zoning laws;
- Prohibits vegetable gardening and farming on the controlled property;
- Restrict the use of groundwater as a source of potable or process water, without the necessary water quality treatment as determined by the NYSDOH and/or the New York City Department of Health and Mental Hygiene (NYCDOHMH); and,
- Require compliance with the NYSDEC-approved SMP.

3.3 Engineering Controls

3.3.1 Site Cover System

Exposure to remaining contamination is prevented by a cover system placed over the site. This cover system is comprised of an 8- to 16-inch thick concrete slab and 1-foot of imported Item #4 Dense Graded Aggregate along the southern portion of the Site. Figure 6 presents the location of the cover system and applicable demarcation layers, and

as-built drawings are provided in Appendix D. The Excavation Work Plan (EWP) provided in Appendix E outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the Site and provided in Appendix F and G, respectively. Any disturbance of the site's cover system must be overseen by a qualified environmental professional as defined in 6 NYCRR Part 375, a Professional Engineer (PE) who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.

3.3.2 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC DER-10. Unless waived by the NYSDEC, confirmation samples of applicable environmental media are required before terminating any remedial actions at the site. Confirmation samples require Category B deliverables and a Data Usability Summary Report (DUSR).

The remedial party will also conduct any needed Site restoration activities and will conduct any necessary restoration of vegetation coverage, trees and wetlands, and will comply with NYSDEC and United States Army Corps of Engineers regulations and guidance. Also, the remedial party will ensure that no ongoing erosion is occurring on the site.

3.3.2.1 Site Cover System

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

4.0 MONITORING AND SAMPLING PLAN

This Monitoring and Sampling Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring and Sampling Plan may only be revised with the approval of the NYSDEC project manager.

The procedures described in this section address inspections and periodic monitoring for the following:

1. Site-wide Inspections
2. Site Cover System Inspections

This Monitoring and Sampling Plan describes the methods to be used for:

- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the monitoring activities.

To adequately address these issues, this Monitoring and Sampling Plan provides information on:

- Designed containment systems (e.g. the Site cover system);
- Site cover inspection and maintenance requirements; and
- Annual inspections.

Reporting requirements are provided in Section 7.0 of this SMP.

4.1 Site-Wide Inspection

Inspections will be performed annually. Site-wide inspections will be performed by a qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State. Modification to the frequency or duration of the inspections will require approval from the NYSDEC project manager. Inspections will also be performed after all severe weather conditions that may affect ECs. During these

inspections, an inspection form will be completed as provided in Appendix H – Site Management Forms. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that Site records are up to date.

Inspections of all remedial components installed at the Site will be conducted. A comprehensive inspection of the Site will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria; and
- If Site records are complete and up to date.

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the site, verbal notice to the NYSDEC project manager must be given by noon of the following day. In addition, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional, as defined in 6 NYCCR Part 375. Written confirmation must be provided to the NYSDEC project manager within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

4.2 Site Cover Inspection and Monitoring

The Site cover system provides a physical barrier at the Site to prevent exposure of contaminated Site material to sensitive receptors. Inspection of the Site cover by a professional engineer, or a qualified environmental professional under the direction of a professional engineer, is required annually and following any severe weather or other condition that could compromise the cover performance. Observations made during inspections will be recorded on a Site cover inspection form (Appendix H) and will provide sufficient information to certify the integrity of each component of the Site cover system. Any identified damages to the Site cover system will be repaired in kind in compliance with this SMP.

4.3 Soil Vapor Intrusion Evaluation

As required in the decision document, a soil vapor intrusion (SVI) evaluation was completed.

Soil vapor samples collected during the Phase II EI contained chlorinated VOCs, including PCE above the monitoring and/or mitigation threshold according to NYSDOH Soil Vapor Intrusion Guidance Matrix B. However, PCE was not detected above the referenced monitoring and/or mitigation threshold during the RI. The disparity in soil vapor concentrations of PCE between the Phase II EI and RI may be the result of lower barometric pressure during the Phase II EI.

Chlorinated VOCs were also not detected above the SGVs in groundwater or soil at the Site. Based on the Phase II EI and RI soil, soil vapor, and groundwater results, there is no on-Site source of contamination that would result in a soil vapor intrusion condition into a new building. The potential pathway for soil vapor intrusion into the building from off-Site sources is addressed by installation of a vapor barrier, which will prevent direct human exposure to residual impacted media that may migrate to the Site from an off-Site location. In addition, groundwater is present above the cellar slab elevation, as shown in Figures 3C and 3D of the RAWP. As such, there is limited to no potential for the production of soil vapor above the water table and below the cellar slab at the Site.

A continuous vapor barrier system was installed as a green remediation construction measure, which will address any potential residual soil vapor emanating from off-Site sources. The GCP Applied Technologies vapor barrier system consists of a PrePrufe 300R Plus 46-mil grade membrane installed below concrete slab/foundation

elements and PrePrufe 160R 32-mil grade along the eastern exterior of the subsurface foundation walls to the first-floor grade. GCP Bituthene 4000 60-mil grade membrane was installed along the exterior of subsurface foundation elements including the northern, southern, and western blind-side foundation walls to first-floor grade, pile cap transitions to exterior walls, and elevator pits.

Soil vapor intrusion is not considered a concern for the new development due to the RI results and the installation of a continuous subsurface membrane. A soil vapor intrusion evaluation will be required should there be a future change in Site use or if a new building is constructed on Site.

5.0 OPERATION AND MAINTENANCE PLAN

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

6.0 PERIODIC ASSESSMENTS/EVALUATIONS

6.1 Climate Change Vulnerability Assessment

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

This section provides a summary of vulnerability assessments that will be conducted for the Site during periodic assessments, and briefly summarizes the vulnerability of the Site and/or engineering controls to severe storms/weather events and associated flooding.

According to the Effective National Flood Insurance Rate map for the City of New York published by FEMA (Community Panel No. 3604970091F, dated 5 September 2007), the Site is mapped within Zone AE. Zone AE is defined as a special flood hazard area and is

subject to inundation by the 1 percent annual chance flood. The Site remedy does not rely on mechanical systems. In the event of a power loss, the effectiveness of the engineering controls will not be disrupted.

Site erosion is not expected during severe weather or precipitation events because soil will be covered with a concrete slab and imported stone. ECs will be inspected after severe weather or other emergency conditions (natural disasters or fires) that are knows to have inflicted damage at the Site or adjoining properties and repaired, as necessary.

Overall, the Site ECs are not expected to be vulnerable to the effects of global climate change, including severe weather and flooding events.

6.2 Green Remediation Evaluation

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including Site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. This section of the SMP provides a summary of any green remediation evaluations to be completed for the Site during Site management, and as reported in the Periodic Review Report (PRR).

6.2.1 Timing of Green Remediation Evaluations

For major remedial system components, green remediation evaluations and corresponding modifications will be undertaken as part of a formal Remedial System Optimization (RSO), or at any time that the NYSDEC project manager feels appropriate, e.g. during significant maintenance events or in conjunction with storm recovery activities.

Modifications resulting from green remediation evaluations will be routinely implemented and scheduled to occur during planned/routine inspection or maintenance activities. Reporting of these modifications will be presented in the PRR.

6.2.2 Frequency of Inspections, Sampling and Other Periodic Activities

Transportation to and from the Site, use of consumables in relation to visiting the Site in order to conduct inspections and/or collect samples, and shipping samples to a laboratory for analyses have direct and/or inherent energy costs. The schedule and/or means of these periodic activities have been prepared so that these tasks can be accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

6.3 Remedial System Optimization

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

- The remedial actions have not met or are not expected to meet RAOs in the time frame estimated in the Decision Document;
- The management and operation of the remedial system is exceeding the estimated costs;
- The remedial system is not performing as expected or as designed;
- Previously unidentified source material may be suspected;
- Plume shift has potentially occurred;
- Site conditions change due to development, change of use, change in groundwater use, etc.;
- There is an anticipated transfer of the Site management to another remedial party or agency; and
- A new and applicable remedial technology becomes available.

An RSO will provide a critique of a site's conceptual model, give a summary of past performance, document current cleanup practices, summarize progress made toward the site's cleanup goals, gather additional performance or media specific data and information

and provide recommendations for improvements to enhance the ability of the present system to reach RAOs or to provide a basis for changing the remedial strategy.

7.0. REPORTING REQUIREMENTS

7.1 Site Management Reports

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

All applicable inspection forms and other records, including media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the following table and summarized in the Periodic Review Report.

Task/Report	Reporting Frequency*
Site-Wide Inspection and Periodic Review Report	Annually

* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC project manager.

All interim monitoring/inspections reports will include, at a minimum:

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

- A determination as to whether contaminant conditions have changed since the last reporting event.

All interim monitoring/inspections reports will also include, if appropriate:

- Type of samples collected (e.g., soil);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations; and,
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format).

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

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

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

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

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

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

7.2 Periodic Review Report

A Periodic Review Report (PRR) will be submitted to the NYSDEC project manager beginning sixteen (16) months after the Certificate of Completion is issued. After submittal of the initial Periodic Review Report, the next PRR shall be submitted annually to the NYSDEC project manager or at another frequency as may be required by the NYSDEC project manager. In the event that the Site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the Site described in Appendix A -Environmental Easement. The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site.
- Results of the required annual Site inspections, fire inspections and severe condition inspections, if applicable.
- All applicable Site management forms and other records generated for the Site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- Identification of any wastes generated during the reporting period, along with waste characterization data, manifests, and disposal documentation.

- A summary of any discharge monitoring data and/or information generated during the reporting period, with comments and conclusions.

- If samples are collected, data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These tables and figures will include a presentation of past data as part of an evaluation of contaminant concentration trends, including but not limited to:
  - Trend monitoring graphs that present groundwater contaminant levels from before the start of the remedy implementation to the most current sampling data;
  - Trend monitoring graphs depicting system influent analytical data on a per event and cumulative basis;
  - O&M data summary tables;
  - A current plume map for sites with remaining groundwater contamination; and
  - A groundwater elevation contour map for each gauging event.
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link: http://www.dec.ny.gov/chemical/62440.html.

- A Site evaluation, which includes the following:
  - The compliance of the remedy with the requirements of the site-specific Decision Document;
  - The operation and the effectiveness of all ECs;
  - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring and Sampling Plan for the media being monitored;

- Recommendations regarding any necessary changes to the remedy and/or Monitoring and Sampling Plan;
- An evaluation of trends in contaminant levels in the affected media to determine if the remedy continues to be effective in achieving remedial goals as specified by the Decision Document; and
- The overall performance and effectiveness of the remedy.

7.2.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a qualified environmental professional as defined in 6 NYCRR Part 375 or Professional Engineer licensed to practice and registered in New York State will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

"*For each institutional or engineering control identified for the site, I certify that all of the following statements are true:*

- *The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*
- *The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any Site management plan for this control;*
- *Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*
- *Use of the Site is compliant with the environmental easement;*
- *The engineering control systems are performing as designed and are effective;*

- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices; and*
- *The information presented in this report is accurate and complete.*

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Satyajit Vaidya, of Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C., am certifying as the Remedial Party's Designated Site Representative: *I have been authorized and designated by all Site owners/remedial parties to sign this certification for the site."*

I certify that the New York State Education Department has granted a Certificate of Authorization to provide Professional Engineering services to the firm that prepared this Periodic Review Report.
Every five years, the following certification will be added to the above list:

- *The assumptions made in the qualitative exposure assessment remain valid.*

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC project manager and the NYSDOH project manager. The Periodic Review Report may also need to be submitted in hard-copy format if requested by the NYSDEC project manager.

7.3 Corrective Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control or failure to conduct Site management activities, a Corrective Measures Work Plan will be submitted to the NYSDEC project manager for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC project manager.

7.4 Remedial Site Optimization Report

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

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

8.0 REFERENCES

1. 6 NYCRR Part 375, Environmental Remediation Programs. December 14, 2006;
2. NYSDEC DER-10 – "Technical Guidance for Site Investigation and Remediation;"
3. NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum);
4. Phase I Environmental Study, prepared by Singer Environmental Group, Ltd. (Singer), dated August 1998
5. Phase I Environmental Site Assessment, prepared by P.W. Grosser Consulting, Inc. (P.W. Grosser), dated December 2018
6. Environmental Soil Pre-Characterization Results Letter, prepared by Langan, dated 3 July 2019
7. Phase II Environmental Investigation Report, prepared by Langan, dated 19 July 2019
8. Remedial Investigation Work Plan, prepared by Langan, dated 3 June 2020

9. Phase I Environmental Site Assessment, prepared by Langan, dated 13 August 2020
10. Interim Remedial Measures Work Plan, prepared by Langan, dated 10 May 2021
11. Remedial Investigation Report, prepared by Langan, dated 19 June 2021
12. Interim Remedial Measures Work Plan Addendum, Prepared by Langan, dated 19 August 2021.
13. Remedial Action Work Plan, prepared by Langan, dated 28 September 2021.

TABLES

Table 1
Soil Management Plan
Soil Cleanup Objectives

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Protection of Groundwater SCOs
Volatile Organic Compounds (mg/kg)				
1,1,1-Trichloroethane	71-55-6	0.68	500	0.68
1,1-Dichloroethane	75-34-3	0.27	240	0.27
1,1-Dichloroethene	75-35-4	0.33	500	0.33
1,2,4-Trimethylbenzene	95-63-6	3.6	190	3.6
1,2-Dichlorobenzene	95-50-1	1.1	500	1.1
1,2-Dichloroethane	107-06-2	0.02	30	0.02
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	190	8.4
1,3-Dichlorobenzene	541-73-1	2.4	280	2.4
1,4-Dichlorobenzene	106-46-7	1.8	130	1.8
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	130	0.1
Acetone	67-64-1	0.05	500	0.05
Benzene	71-43-2	0.06		0.06
Carbon Tetrachloride	56-23-5	0.76	22	0.76
Chlorobenzene	108-90-7	1.1	500	1.1
Chloroform	67-66-3	0.37	350	0.37
Cis-1,2-Dichloroethene	156-59-2	0.25	500	0.25
Ethylbenzene	100-41-4	1	390	1
Hexachlorobenzene	118-74-1	0.33	6	3.2
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	500	0.12
Methylene Chloride	75-09-2	0.05	500	0.05
Naphthalene	91-20-3	12	500	12
n-Butylbenzene	104-51-8	12	500	12
n-Propylbenzene	103-65-1	3.9	500	3.9
Sec-Butylbenzene	135-98-8	11	500	11
T-Butylbenzene	98-06-6	5.9	500	5.9
Tert-Butyl Methyl Ether	1634-04-4	0.93	500	0.93
Tetrachloroethene (PCE)	127-18-4	1.3	150	1.3
Toluene	108-88-3	0.7	500	0.7
Total Xylenes	1330-20-7	0.26	500	1.6
Trans-1,2-Dichloroethene	156-60-5	0.19	500	0.19
Trichloroethene (TCE)	79-01-6	0.47	200	0.47
Vinyl Chloride	75-01-4	0.02	13	0.02
Semivolatile Organic Compounds (mg/kg)				
1,2-Dichlorobenzene	95-50-1	1.1	500	1.1
1,3-Dichlorobenzene	541-73-1	2.4	280	2.4
1,4-Dichlorobenzene	106-46-7	1.8	130	1.8
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	130	0.1
2-Methylphenol (o-Cresol)	95-48-7	0.33	500	0.33
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	500	0.33
Acenaphthene	83-32-9	20	500	98
Acenaphthylene	208-96-8	100	500	107
Anthracene	120-12-7	100	500	1,000
Benzo(a)anthracene	56-55-3	1	5.6	1
Benzo(a)pyrene	50-32-8	1	1	22
Benzo(b)fluoranthene	205-99-2	1	5.6	1.7
Benzo(g,h,i)Perylene	191-24-2	100	500	1,000
Benzo(k)fluoranthene	207-08-9	0.8	56	1.7
Chrysene	218-01-9	1	56	1
Dibenz(a,h)anthracene	53-70-3	0.33	0.56	1,000
Dibenzofuran	132-64-9	7	350	210
Fluoranthene	206-44-0	100	500	1,000
Fluorene	86-73-7	30	500	386
Hexachlorobenzene	118-74-1	0.33	6	3.2
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	8.2
Naphthalene	91-20-3	12	500	12
Pentachlorophenol	87-86-5	0.8	6.7	0.8
Phenanthrene	85-01-8	100	500	1,000
Phenol	108-95-2	0.33	500	0.33
Pyrene	129-00-0	100	500	1,000

Table 1
Soil Management Plan
Soil Cleanup Objectives

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	NYSDEC Part 375 Protection of Groundwater SCOs
Pesticides (mg/kg)				
4,4'-DDD	72-54-8	0.0033	92	14
4,4'-DDE	72-55-9	0.0033	62	17
4,4'-DDT	50-29-3	0.0033	47	136
Aldrin	309-00-2	0.005	0.68	0.19
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	3.4	0.02
Alpha Chlordane	5103-71-9	0.094	24	2.9
Alpha Endosulfan	959-98-8	2.4	200	102
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	3	0.09
Beta Endosulfan	33213-65-9	2.4	200	102
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	500	0.25
Dibenzofuran	132-64-9	7	350	210
Dieldrin	60-57-1	0.005	1.4	0.1
Endosulfan Sulfate	1031-07-8	2.4	200	1,000
Endrin	72-20-8	0.014	89	0.06
Gamma Bhc (Lindane)	58-89-9	0.1	9.2	0.1
Heptachlor	76-44-8	0.042	15	0.38
Herbicides (mg/kg)				
Silvex (2,4,5-Tp)	93-72-1	3.8	500	3.8
Polychlorinated Biphenyls (mg/kg)				
Total PCBs	1336-36-3	0.1	1	3.2
Inorganics (mg/kg)				
Arsenic	7440-38-2	13	16	16
Barium	7440-39-3	350	400	820
Beryllium	7440-41-7	7.2	590	47
Cadmium	7440-43-9	2.5	9.3	7.5
Chromium, Hexavalent	18540-29-9	1	400	19
Chromium, Trivalent	16065-83-1	30	1,500	~
Copper	7440-50-8	50	270	1,720
Total Cyanide	~	27	27	40
Lead	7439-92-1	63	1,000	450
Manganese	7439-96-5	1,600	10,000	2,000
Mercury	7439-97-6	0.18	2.8	0.73
Nickel	7440-02-0	30	310	130
Selenium	7782-49-2	3.9	1,500	4
Silver	7440-22-4	2	1,500	8.3
Zinc	7440-66-6	109	10,000	2,480

Notes:
1. Soil cleanup objectives taken from New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use, Restricted Use Commercial, and Protection of Groundwater Soil Cleanup Objectives (SCOs).
2. Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and
3. ~ = Regulatory limit for this analyte does not exist
4. mg/kg = milligrams per kilogram

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-37 PAH Delination					
					Location	LSB-37A	LSB-59	LSB-59	LSB-60	LSB-61	LSB-62
					Sample Name	131_LSB-37A_14.0-16.0	133_LSB-59_12.0-14.0	136_DUP-3	137_LSB-60_12.0-14.0	140_LSB-61_12.0-14.0	143_LSB-62_12.0-14.0
					Sample Date	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	NA	NA	NA	NA	NA	NA
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	0.06	0.06	44	mg/kg	NA	NA	NA	NA	NA	NA
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bromoform	75-25-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bromomethane	74-83-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	NA	NA	NA	NA	NA	NA
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA
Chloroethane	75-00-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Chloroform	67-66-3	0.37	0.37	350	mg/kg	NA	NA	NA	NA	NA	NA
Chloromethane	74-87-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	NA	NA	NA	NA	NA	NA
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Cymene	99-87-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	1	1	390	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	NA	NA	NA	NA	NA	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	12	12	500	mg/kg	NA	NA	NA	NA	NA	NA
n-Butylbenzene	104-51-8	12	12	500	mg/kg	NA	NA	NA	NA	NA	NA
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	NA	NA	NA	NA	NA	NA
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	NA	NA	NA	NA	NA	NA
Styrene	100-42-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	NA	NA	NA	NA	NA	NA
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	NA	NA	NA	NA	NA	NA
Toluene	108-88-3	0.7	0.7	500	mg/kg	NA	NA	NA	NA	NA	NA
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	NA	NA	NA	NA	NA	NA
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	NA	NA	NA	NA	NA	NA

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-37 PAH Delination					
					Location	LSB-37A	LSB-59	LSB-59	LSB-60	LSB-61	LSB-62
					Sample Name	131_LSB-37A_14.0-16.0	133_LSB-59_12.0-14.0	136_DUP-3	137_LSB-60_12.0-14.0	140_LSB-61_12.0-14.0	143_LSB-62_12.0-14.0
					Sample Date	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds											
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.21 U	<0.2 U	<0.2 U	<0.19 U	<0.22 U	<0.21 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.52	<0.24 U	<0.24 U	<0.23 U	<0.27 U	0.71
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Acenaphthene	83-32-9	**20**	98	500	mg/kg	1.6	<0.16 U	<0.16 U	<0.15 U	<0.18 U	2.3
Acenaphthylene	208-96-8	100	107	500	mg/kg	0.2	<0.16 U	<0.16 U	<0.15 U	<0.18 U	0.27
Acetophenone	98-86-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Anthracene	120-12-7	**100**	1000	500	mg/kg	2.4	<0.12 U	<0.12 U	<0.12 U	<0.14 U	4.1
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	**3.6**	0.042 J	0.039 J	0.067 J	0.039 J	**4.9**
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	**3.3**	<0.16 U	<0.16 U	0.071 J	<0.18 U	**4.2**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	**4**	0.041 J	0.04 J	0.079 J	0.039 J	**4.9**
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	1.7	<0.16 U	<0.16 U	0.045 J	<0.18 U	2.1
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	**1.2**	<0.12 U	<0.12 U	<0.12 U	<0.14 U	**1.4**
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Carbazole	86-74-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	**1**	1	56	mg/kg	**3.3**	0.036 J	0.036 J	0.063 J	0.034 J	**4.3**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	**0.5**	<0.12 U	<0.12 U	<0.12 U	<0.14 U	**0.58**
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	NA	NA	NA	NA	NA	NA
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	7.3	0.068 J	0.07 J	0.13	0.068 J	13
Fluorene	86-73-7	**30**	386	500	mg/kg	1.5	<0.2 U	<0.2 U	<0.19 U	<0.22 U	2.4
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	**1.9**	<0.16 U	<0.16 U	0.045 J	<0.18 U	**2.2**
Isophorone	78-59-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	**12**	12	500	mg/kg	1.2	<0.2 U	<0.2 U	<0.19 U	<0.22 U	1.5
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	NA	NA	NA	NA	NA	NA
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	11	0.036 J	0.039 J	0.1 J	0.054 J	16
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	**100**	1000	500	mg/kg	6.4	0.062 J	0.063 J	0.12	0.061 J	11

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-37 PAH Delination					
					Location	LSB-37A	LSB-59	LSB-59	LSB-60	LSB-61	LSB-62
					Sample Name	131_LSB-37A_14.0-16.0	133_LSB-59_12.0-14.0	136_DUP-3	137_LSB-60_12.0-14.0	140_LSB-61_12.0-14.0	143_LSB-62_12.0-14.0
					Sample Date	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result
Pesticides											
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	NA	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	NA	NA	NA	NA	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	NA	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	NA	NA	NA	NA	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	NA	NA	NA	NA	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	NA	NA	NA	NA	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	NA	NA	NA	NA	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	0.014	0.06	89	mg/kg	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	NA	NA	NA	NA	NA	NA
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Herbicides											
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyl											
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	NA	NA	NA	NA	NA	NA
Metals											
Aluminum	7429-90-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	7440-36-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	**13**	16	16	mg/kg	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	**350**	820	400	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	7.2	47	590	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	7440-70-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	NA	NA	NA	NA	NA	NA
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	**50**	1720	270	mg/kg	NA	NA	NA	NA	NA	NA
Cyanide	57-12-5	27	40	27	mg/kg	NA	NA	NA	NA	NA	NA
Iron	7439-89-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	**63**	450	1000	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	7439-96-5	1600	2000	10000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	**30**	130	310	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	7440-09-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	**2**	8.3	1500	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	7440-23-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	7440-28-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	**109**	2480	10000	mg/kg	NA	NA	NA	NA	NA	NA
General Chemistry											
Total Solids	TSOLID	NS	NS	NS	Percent	75.5	83.2	81.9	85.9	73.3	75.9

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-37 PAH Delination					
					Location	LSB-37A	LSB-59	LSB-59	LSB-60	LSB-61	LSB-62
					Sample Name	131_LSB-37A_14.0-16.0	133_LSB-59_12.0-14.0	136_DUP-3	137_LSB-60_12.0-14.0	140_LSB-61_12.0-14.0	143_LSB-62_12.0-14.0
					Sample Date	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021	06/15/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids											
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-39 Metals Delineation							
					Location	LSB-39A	LSB-67	LSB-67	LSB-68	LSB-68	LSB-69	LSB-70	LSB-72
					Sample Name	159_LSB-39A_14.0-16.0	161_LSB-67_12.0-14.0	164_DUP-4	165_LSB-68_12.0-14.0	166_LSB-68_14.0-16.0	168_LSB-69_12.0-14.0	171_LSB-70_12.0-14.0	177_LSB-72_12.0-14.0
					Sample Date	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	0.06	0.06	44	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	75-25-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	74-83-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	75-00-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	67-66-3	0.37	0.37	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	74-87-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cymene	99-87-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	1	1	390	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	12	12	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	104-51-8	12	12	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100-42-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	108-88-3	0.7	0.7	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-39 Metals Delineation							
					Location	LSB-39A	LSB-67	LSB-67	LSB-68	LSB-68	LSB-69	LSB-70	LSB-72
					Sample Name	159_LSB-39A_14.0-16.0	161_LSB-67_12.0-14.0	164_DUP-4	165_LSB-68_12.0-14.0	166_LSB-68_14.0-16.0	168_LSB-69_12.0-14.0	171_LSB-70_12.0-14.0	177_LSB-72_12.0-14.0
					Sample Date	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	83-32-9	**20**	98	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	208-96-8	100	107	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	98-86-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	120-12-7	**100**	1000	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	86-74-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	**1**	1	56	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	86-73-7	**30**	386	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	78-59-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	**12**	12	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	**100**	1000	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-39 Metals Delineation							
					Location	LSB-39A	LSB-67	LSB-67	LSB-68	LSB-68	LSB-69	LSB-70	LSB-72
					Sample Name	159_LSB-39A_14.0-16.0	161_LSB-67_12.0-14.0	164_DUP-4	165_LSB-68_12.0-14.0	166_LSB-68_14.0-16.0	168_LSB-69_12.0-14.0	171_LSB-70_12.0-14.0	177_LSB-72_12.0-14.0
					Sample Date	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides													
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	0.014	0.06	89	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Herbicides													
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyl													
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,140	6,590	5,180	9,060	4,950	9,940	11,700	3,910
Antimony	7440-36-0	NS	NS	NS	mg/kg	<4.84 U	<5.31 U	<5.28 U	<6 UJ	<4.79 U	<4.76 U	<7.34 U	<5.99 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	4.58	9.04 J	4.53 J	9.84 J	4.49	3.06	**16**	5.67
Barium	7440-39-3	**350**	820	400	mg/kg	61.7	119 J	68.1 J	108	54.2	74.1	216	86.8
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.174 J	0.297 J	0.37 J	0.3 J	0.239 J	0.304 J	0.631 J	0.42 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.494 J	0.541 J	0.37 J	0.828 J	0.306 J	0.457 J	0.954 J	0.312 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	7,390	7,600 J	3,640 J	4,750 J	14,200	3,080	11,700	15,300
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<0.986 U	<1.1 U	<1.08 U	<1.26 UJ	<0.986 UJ	<0.985 U	<1.56 U	<1.26 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	11.6	14.8 J	8.21 J	24.6 J	11	16.4	31.8	5.58
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	12	15 J	8.2 J	25	11	16	**32**	5.6
Cobalt	7440-48-4	NS	NS	NS	mg/kg	6	8.55	5.37	11	5.26	8.45	14.9	5.66
Copper	7440-50-8	**50**	1720	270	mg/kg	28.8	**50.4 J**	27 J	**59.3 J**	28.5	18.5	**88.3**	23.8
Cyanide	57-12-5	27	40	27	mg/kg	0.5 J	<1.4 UJ	<1.2 UJ	<1.5 UJ	<1.2 UJ	<1.2 UJ	<2 UJ	<1.5 UJ
Iron	7439-89-6	NS	NS	NS	mg/kg	12,500	12,600	10,900	26,800 J	11,400	15,500	21,000	10,600
Lead	7439-92-1	**63**	450	1000	mg/kg	**137**	**237 J**	**96.3 J**	**1,910 J**	**181**	61.1	**370**	**119**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	4,780	2,810 J	1,380 J	3,230	3,110	2,830	3,980	825
Manganese	7439-96-5	1600	2000	10000	mg/kg	183	164	210	276 J	334	327	253	83.9
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**1.73**	**0.61 J**	**0.359 J**	**0.529 J**	**0.313**	**0.188**	**0.922**	**0.455**
Nickel	7440-02-0	**30**	130	310	mg/kg	28.1	15.9	10.5	19.2	19.6	13.5	29.1	11.4
Potassium	7440-09-7	NS	NS	NS	mg/kg	972	1,560 J	798 J	2,010 J	925	1,190	2,310	366
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	<1.94 U	<2.12 U	1.13 J	<2.4 U	0.574 J	<1.9 U	<2.93 U	2.52
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<0.969 U	<1.06 U	<1.06 U	<1.2 U	<0.957 U	<0.952 U	<1.47 U	<1.2 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	<194 U	237	<211 U	<240 U	<191 U	<190 U	343	<240 U
Thallium	7440-28-0	NS	NS	NS	mg/kg	<1.94 U	<2.12 U	<2.11 U	<2.4 UJ	<1.91 U	<1.9 U	<2.93 U	<2.4 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	16.9	23.2	24.3	32.7	16.3	24.5	50.3	19
Zinc	7440-66-6	**109**	2480	10000	mg/kg	98.7	**198 J**	76.7 J	**176 J**	48.2	52.1	**352**	66.4
General Chemistry													
Total Solids	TSOLID	NS	NS	NS	Percent	81.1	72.4	73.7	63.2	81.1	81.2	51.2	63.2

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	LSB-39 Metals Delineation							
					Location	LSB-39A	LSB-67	LSB-67	LSB-68	LSB-68	LSB-69	LSB-70	LSB-72
					Sample Name	159_LSB-39A_14.0-16.0	161_LSB-67_12.0-14.0	164_DUP-4	165_LSB-68_12.0-14.0	166_LSB-68_14.0-16.0	168_LSB-69_12.0-14.0	171_LSB-70_12.0-14.0	177_LSB-72_12.0-14.0
					Sample Date	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021	06/16/2021
					Sample Depth	14-16	12-14	12-14	12-14	12-14	12-14	12-14	12-14
					Unit	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids													
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	
					Location	PE-01	PE-02	PE-03	PE-04	PE-05	PE-06	PE-06	PE-07	PE-08	PE-09	PE-10
					Sample Name	188_PE-1_20211022	189_PE-2_20211022	190_PE-3_20211022	191_PE-4_20211022	193_PE-5_20211025	194_PE-6_20211025	195_DUP-1	196_PE-7_20211025	197_PE-8_20211025	198_PE-9_20211025	199_PE-10_20211025
					Sample Date	10/22/2021	10/22/2021	10/22/2021	10/22/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021
					Sample Depth	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0032 U	<0.0043 U	<0.003 U	<0.0026 U	<0.0028 U	<0.0035 U	<0.0036 U	<0.0038 U	<0.0038 U	<0.004 U	<0.0027 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.085 U	<0.12 U	<0.079 U	<0.07 U	<0.076 U	<0.094 U	<0.096 U	<0.1 U	<0.1 U	<0.11 U	<0.071 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.011 U	<0.014 U	<0.0099 U	<0.0087 U	<0.0095 U	<0.012 U	<0.012 U	<0.013 U	<0.013 U	<0.013 U	<0.0089 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	<0.011 U	0.0071 J	**0.18**	0.0044 J	0.013	**0.051 J**	**0.26 J**	0.043	**0.051**	0.04	0.014
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0042 U	<0.0058 U	<0.004 U	<0.0035 U	<0.0038 U	<0.0047 U	<0.0048 U	<0.0051 U	<0.005 U	<0.0053 U	<0.0036 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0042 U	<0.0058 U	<0.004 U	<0.0035 U	<0.0038 U	<0.0047 U	<0.0048 U	<0.0051 U	<0.005 U	<0.0053 U	<0.0036 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.011 U	<0.014 U	<0.0099 U	<0.0087 U	<0.0095 U	<0.012 U	<0.012 U	<0.013 U	<0.013 U	<0.013 U	<0.0089 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	<0.0016 U	<0.0022 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.0018 U	<0.0018 U	<0.0019 U	<0.0019 U	0.0032	<0.0013 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.0042 U	<0.0058 U	<0.004 U	<0.0035 U	<0.0038 U	<0.0047 U	<0.0048 U	<0.0051 U	<0.005 U	<0.0053 U	<0.0036 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
Cymene	99-87-6	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	<0.011 U	<0.014 U	<0.0099 U	<0.0087 U	<0.0095 U	<0.012 U	<0.012 U	<0.013 U	<0.013 U	<0.013 U	<0.0089 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	0.00036 J	<0.0013 U	<0.0013 U	0.00037 J	<0.00089 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.0042 U	<0.0058 U	<0.004 U	<0.0035 U	<0.0038 U	<0.0047 U	<0.0048 U	<0.0051 U	<0.005 U	<0.0053 U	<0.0036 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.0021 U	<0.0029 U	0.00056 J	<0.0017 U	<0.0019 U	<0.0024 U	0.0016 J	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	<0.011 U	<0.014 U	<0.0099 U	<0.0087 U	<0.0095 U	<0.012 U	<0.012 U	<0.013 U	0.0091 J	<0.013 U	<0.0089 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	<0.011 U	<0.014 U	<0.0099 U	<0.0087 U	<0.0095 U	<0.012 U	0.0065 J	<0.013 U	<0.013 U	<0.013 U	<0.0089 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	<0.0053 U	<0.0072 U	<0.0049 U	<0.0043 U	<0.0048 U	<0.0059 U	<0.006 U	<0.0064 U	<0.0063 U	<0.0067 U	<0.0044 U
Naphthalene	91-20-3	12	12	500	mg/kg	<0.0042 U	<0.0058 U	<0.004 U	<0.0035 U	<0.0038 U	<0.0047 U	<0.0048 U	<0.0051 U	<0.005 U	<0.0053 U	<0.0036 U
n-Butylbenzene	104-51-8	12	12	500	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	0.00029 J	<0.00087 U	<0.00095 U	<0.0012 U	0.00074 J	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Styrene	100-42-5	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.0021 U	<0.0029 U	<0.002 U	<0.0017 U	<0.0019 U	<0.0024 U	<0.0024 U	<0.0026 U	<0.0025 U	<0.0027 U	<0.0018 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	0.00028 J	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	0.0034	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.0011 U	<0.0014 U	0.00085 J	<0.00087 U	<0.00095 U	<0.0012 U	0.0023 J	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	<0.0016 U	<0.0022 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.0018 U	<0.0018 U	<0.0019 U	<0.0019 U	<0.002 U	<0.0013 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	<0.0053 U	<0.0072 U	<0.0049 U	<0.0043 U	<0.0048 U	<0.0059 U	<0.006 U	<0.0064 U	<0.0063 U	<0.0067 U	<0.0044 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	<0.00053 U	<0.00072 U	<0.00049 U	<0.00043 U	<0.00048 U	<0.00059 U	<0.0006 U	<0.00064 U	<0.00063 U	<0.00067 U	<0.00044 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	<0.0042 U	<0.0058 U	<0.004 U	<0.0035 U	<0.0038 U	<0.0047 U	<0.0048 U	<0.0051 U	<0.005 U	<0.0053 U	<0.0036 U
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	<0.011 U	<0.014 U	<0.0099 U	<0.0087 U	<0.0095 U	<0.012 U	<0.012 U	<0.013 U	<0.013 U	<0.013 U	<0.0089 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	<0.0011 U	<0.0014 U	<0.00099 U	<0.00087 U	<0.00095 U	<0.0012 U	<0.0012 U	<0.0013 U	<0.0013 U	<0.0013 U	<0.00089 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	
					Location	PE-01	PE-02	PE-03	PE-04	PE-05	PE-06	PE-06	PE-07	PE-08	PE-09	PE-10
					Sample Name	188_PE-1_20211022	189_PE-2_20211022	190_PE-3_20211022	191_PE-4_20211022	193_PE-5_20211025	194_PE-6_20211025	195_DUP-1	196_PE-7_20211025	197_PE-8_20211025	198_PE-9_20211025	199_PE-10_20211025
					Sample Date	10/22/2021	10/22/2021	10/22/2021	10/22/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021
					Sample Depth	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.029 U	<0.032 UJ	<0.03 U	<0.14 U	<0.029 U	<0.032 U	<0.03 U	<0.033 U	<0.035 U	<0.033 U	<0.028 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.12 U	<0.57 U	<0.12 U	<0.13 U	<0.12 U	<0.13 U	<0.14 U	<0.13 U	<0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.85 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.21 U	<0.2 U	<0.17 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.93 U	<1 U	<0.95 U	<4.6 U	<0.93 U	<1 U	<0.98 U	<1 U	<1.1 U	<1 U	<0.91 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	<0.23 U	<0.26 U	0.068 J	0.18 J	0.03 J	0.068 J	0.074 J	<0.26 U	0.089 J	0.5	<0.23 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.19 U	<0.22 UJ	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.42 U	<0.47 U	<0.43 U	<2 U	<0.42 U	<0.47 U	<0.44 U	<0.48 U	<0.5 U	<0.48 U	<0.41 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	<0.28 U	<0.31 U	0.17 J	<1.4 U	<0.28 U	0.074 J	0.068 J	0.037 J	0.28 J	0.081 J	<0.27 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.19 U	<0.22 UJ	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.5 U	<0.56 U	<0.52 U	<2.5 U	<0.5 U	<0.56 U	<0.53 U	<0.57 U	<0.61 U	<0.57 U	<0.49 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.19 U	<0.22 UJ	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.27 U	<0.3 U	<0.28 U	<1.3 U	<0.27 U	<0.3 U	<0.28 U	<0.31 U	<0.33 U	<0.31 U	<0.26 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	0.022 J	<0.17 U	0.068 J	0.24 J	0.044 J	0.35	0.33	<0.18 U	0.22	0.89	<0.15 U
Acenaphthylene	208-96-8	100	107	500	mg/kg	0.052 J	<0.17 U	0.14 J	0.94	0.085 J	0.091 J	0.18	<0.18 U	0.35	0.31	<0.15 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	0.074 J	<0.13 U	0.22	1.6	0.19	1.7	1.1	<0.13 U	0.57	1.7	<0.11 U
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	0.24	0.039 J	0.5	**9.1**	0.67	**3.4**	**3.1**	0.11 J	**1.3**	**2.4**	0.08 J
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	0.24	<0.17 U	0.5	**9.9**	0.8	**3.6**	**3.5**	0.14 J	**1.4**	**2.3**	0.088 J
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	0.3	0.046 J	0.67	**12**	0.97	**4.2**	**4.1**	0.17	**1.8**	**2.9**	0.1 J
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	0.22	0.028 J	0.36	6.6	0.58	2.3	2.3	0.094 J	0.85	1.3	0.063 J
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	0.1 J	<0.13 U	0.2	**3.9**	0.29	**1.1**	**1**	0.045 J	0.52	0.75	0.034 J
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.63 U	<0.7 UJ	<0.64 U	<3.1 U	<0.62 U	<0.7 U	<0.66 U	<0.71 U	<0.76 U	<0.71 U	<0.61 U
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	<0.44 U	<0.49 U	<0.45 U	<2.2 U	<0.44 U	<0.49 U	<0.46 U	<0.5 U	<0.53 U	0.13 J	<0.43 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.21 U	<0.23 U	<0.21 U	<1 U	<0.21 U	<0.23 U	<0.22 U	<0.24 U	<0.25 U	<0.24 U	<0.2 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.85 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.21 U	<0.2 U	<0.17 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<0.23 U	<0.26 U	<0.24 U	<1.1 U	<0.23 U	<0.26 U	<0.24 U	<0.26 U	<0.28 U	<0.26 U	<0.23 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	0.13 J	<0.22 U	0.09 J	<0.95 U	0.5	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	0.03 J	<0.22 UJ	0.056 J	0.41 J	0.049 J	0.23	0.08 J	<0.22 U	0.24	0.6	<0.19 U
Chrysene	218-01-9	**1**	1	56	mg/kg	0.25	0.034 J	0.51	**8.6**	0.67	**3**	**2.7**	0.11 J	**1.4**	**2.2**	0.072 J
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	0.041 J	<0.13 U	0.082 J	**1.3**	0.1 J	**0.42**	**0.46**	<0.13 U	0.19	0.28	<0.11 U
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	0.02 J	<0.22 U	0.074 J	0.29 J	0.029 J	0.19 J	0.2	<0.22 U	0.19 J	0.75	<0.19 U
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	0.46	0.068 J	1.1	17	1.4	8.2	6.5	0.21	3.6	6	0.14
Fluorene	86-73-7	**30**	386	500	mg/kg	0.026 J	<0.22 U	0.1 J	0.26 J	0.048 J	0.44	0.45	<0.22 U	0.31	1.1	<0.19 U
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	<0.12 U	<0.13 U	<0.12 U	<0.57 U	<0.12 U	<0.13 U	<0.12 U	<0.13 U	<0.14 U	<0.13 U	<0.11 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.19 U	<0.22 UJ	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	<0.56 U	<0.62 U	<0.57 U	<2.7 U	<0.55 U	<0.62 U	<0.58 U	<0.63 U	<0.67 U	<0.63 U	<0.54 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	<0.16 U	<0.17 UJ	<0.16 U	<0.76 U	<0.15 U	<0.17 U	<0.16 U	<0.18 U	<0.19 U	<0.18 U	<0.15 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	0.2	<0.17 U	0.38	**7.4**	**0.55**	**2.2**	**2.2**	0.14 J	**0.84**	**1.3**	0.098 J
Isophorone	78-59-1	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.85 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.21 U	<0.2 U	<0.17 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	0.062 J	<0.22 U	0.26	0.81 J	0.06 J	0.35	0.23	<0.22 U	0.27	1.2	<0.19 U
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.85 U	<0.17 U	<0.19 U	<0.18 U	<0.2 U	<0.21 U	<0.2 U	<0.17 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	<0.19 U	<0.22 U	<0.2 U	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	<0.23 U	<0.22 U	<0.19 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	<0.16 U	<0.17 U	<0.16 U	<0.76 U	<0.15 U	<0.17 U	<0.16 U	<0.18 U	<0.19 U	<0.18 U	<0.15 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	<0.16 U	<0.17 U	<0.16 U	<0.76 U	<0.15 U	<0.17 U	<0.16 U	<0.18 U	<0.19 U	<0.18 U	<0.15 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	0.23	0.036 J	0.76	4.8	0.6	4.5	3.2	0.084 J	3	6.5	0.066 J
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	<0.19 U	<0.22 U	0.053 J	<0.95 U	<0.19 U	<0.22 U	<0.2 U	<0.22 U	0.048 J	<0.22 U	<0.19 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	0.44	0.058 J	0.99	16	1.4	7	5.9	0.19	3.2	5.1	0.13

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	
					Location	PE-01	PE-02	PE-03	PE-04	PE-05	PE-06	PE-06	PE-07	PE-08	PE-09	PE-10
					Sample Name	188_PE-1_20211022	189_PE-2_20211022	190_PE-3_20211022	191_PE-4_20211022	193_PE-5_20211025	194_PE-6_20211025	195_DUP-1	196_PE-7_20211025	197_PE-8_20211025	198_PE-9_20211025	199_PE-10_20211025
					Sample Date	10/22/2021	10/22/2021	10/22/2021	10/22/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021
					Sample Depth	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	<0.00184 U	<0.00203 U	<0.00194 U	<0.00183 U	<0.00176 U	<0.00207 U	<0.00196 U	<0.00205 U	**0.00628 J**	0.0015 J	<0.00181 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	**0.00379 J**	0.00284 P	0.00297 P	<0.00183 U	0.00208	<0.00207 U	0.00236 J	<0.00205 U	**0.00725 J**	**0.00802**	<0.00181 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	0.00241 J	<0.0038 U	<0.00364 U	<0.00343 U	**0.00581 J**	**0.00592 J**	**0.00771 J**	0.00304 J	**0.0262 J**	**0.0101**	<0.00339 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	<0.00184 U	<0.00203 U	<0.00194 U	<0.00183 U	<0.00176 U	<0.00207 U	<0.00196 U	<0.00205 U	<0.00229 U	<0.0021 U	<0.00181 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	<0.000769 U	0.00689 P	<0.000808 U	<0.000762 U	<0.000734 U	<0.000862 U	<0.000817 U	<0.000856 U	<0.000954 U	<0.000876 U	<0.000754 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	0.00123 J	0.0012 JP	0.00151 JP	<0.00228 U	0.00102 J	0.00182 J	0.00254 J	0.000751 J	0.00248 J	0.00402	<0.00226 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	<0.00184 U	<0.00203 U	<0.00194 U	<0.00183 U	<0.00176 U	<0.00207 U	<0.00196 U	<0.00205 U	<0.00229 U	<0.0021 U	<0.00181 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	<0.00184 U	<0.00203 U	<0.00194 U	<0.00183 U	<0.00176 U	<0.00207 U	<0.00196 U	<0.00205 U	<0.00229 U	<0.0021 U	<0.00181 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	<0.00184 U	<0.00203 U	<0.00194 U	<0.00183 U	<0.00176 U	<0.00207 U	<0.00196 U	<0.00205 U	<0.00229 U	<0.0021 U	<0.00181 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0154 U	<0.0169 U	<0.0162 U	<0.0152 U	<0.0147 U	<0.0172 U	<0.0163 U	<0.0171 U	<0.0191 U	<0.0175 U	<0.0151 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	<0.00184 U	<0.00203 U	<0.00194 U	<0.00183 U	<0.00176 U	<0.00207 U	<0.00196 U	<0.00205 U	<0.00229 U	<0.0021 U	<0.00181 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	<0.00115 U	<0.00127 U	0.00232 P	<0.00114 U	0.00145 J	0.00265 J	0.00302 J	<0.00128 U	0.00258 J	**0.00569**	<0.00113 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	<0.000769 U	<0.000845 U	0.00186 P	<0.000762 U	<0.000734 U	<0.000862 U	<0.000817 U	<0.000856 U	<0.000954 U	<0.000876 U	<0.000754 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	<0.000769 U	<0.000845 U	<0.000808 U	<0.000762 U	<0.000734 U	<0.000862 U	<0.000817 U	<0.000856 U	<0.000954 U	<0.000876 U	<0.000754 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00231 U	<0.00254 U	<0.00242 U	<0.00228 U	<0.0022 U	<0.00259 U	<0.00245 U	<0.00257 U	<0.00286 U	<0.00263 U	<0.00226 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00184 U	<0.00203 U	<0.00194 U	<0.00183 U	<0.00176 U	<0.00207 U	<0.00196 U	<0.00205 U	<0.00229 U	<0.0021 U	<0.00181 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	<0.000769 U	<0.000845 U	<0.000808 U	<0.000762 U	<0.000734 U	<0.000862 U	<0.000817 U	<0.000856 U	<0.000954 U	<0.000876 U	<0.000754 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	0.00184 J	<0.00254 U	<0.00242 U	<0.00228 U	0.00114 J	0.00144 J	0.00126 J	0.000926 J	<0.00286 U	0.00313 J	<0.00226 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	<0.000923 U	<0.00101 U	<0.00097 U	<0.000914 U	<0.000881 U	<0.00103 U	<0.00098 U	<0.00103 U	<0.00114 U	<0.00105 U	<0.000904 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00346 UJ	<0.0038 U	<0.00364 U	<0.00343 UJ	<0.0033 U	<0.00388 U	<0.00368 U	<0.00385 U	<0.0043 U	<0.00394 U	<0.00339 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00346 U	<0.0038 U	<0.00364 U	<0.00343 U	<0.0033 U	<0.00388 U	<0.00368 U	<0.00385 U	<0.0043 U	<0.00394 U	<0.00339 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0346 U	<0.038 U	<0.0364 U	<0.0343 U	<0.033 U	<0.0388 U	<0.0368 U	<0.0385 U	<0.043 U	<0.0394 U	<0.0339 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.196 U	<0.216 U	<0.203 U	<0.189 U	<0.19 U	<0.21 U	<0.209 U	<0.221 U	<0.235 U	<0.222 U	<0.19 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.196 U	<0.216 U	<0.203 U	<0.189 U	<0.19 U	<0.21 U	<0.209 U	<0.221 U	<0.235 U	<0.222 U	<0.19 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	<0.196 U	<0.216 U	<0.203 U	<0.189 U	<0.19 U	<0.21 U	<0.209 U	<0.221 U	<0.235 U	<0.222 U	<0.19 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	<0.0366 U	<0.0423 U	<0.0403 U	<0.0438 U	<0.0466 U	<0.0433 U	<0.037 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	<0.0366 U	<0.0423 U	<0.0403 U	<0.0438 U	<0.0466 U	<0.0433 U	<0.037 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	<0.0366 U	<0.0423 U	<0.0403 U	<0.0438 U	<0.0466 U	<0.0433 U	<0.037 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	<0.0366 U	<0.0423 U	<0.0403 U	<0.0438 U	<0.0466 U	<0.0433 U	<0.037 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	0.0148 J	<0.0423 U	<0.0403 U	<0.0438 U	<0.0466 U	<0.0433 U	<0.037 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	0.00524 J	<0.0426 U	<0.0387 U	<0.0372 U	0.0111 J	0.00476 J	0.00818 J	0.00595 J	0.0162 J	0.0145 J	<0.037 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	<0.0366 U	<0.0423 U	<0.0403 U	<0.0438 U	0.00942 J	<0.0433 U	<0.037 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	<0.0366 U	<0.0423 U	<0.0403 U	<0.0438 U	<0.0466 U	<0.0433 U	<0.037 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0377 U	<0.0426 U	<0.0387 U	<0.0372 U	<0.0366 U	<0.0423 U	<0.0403 U	<0.0438 U	<0.0466 U	<0.0433 U	<0.037 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	0.00524 J	<0.0426 U	<0.0387 U	<0.0372 U	0.0259 J	0.00476 J	0.00818 J	0.00595 J	0.0256 J	0.0145 J	<0.037 U
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	8,410	2,980	7,500	7,090	5,350	1,840 J	7,320 J	5,340	5,500 J	7,010	5,500
Antimony	7440-36-0	NS	NS	NS	mg/kg	<4.5 U	<5.02 U	0.602 J	<4.51 U	<4.56 U	0.441 J	<4.92 U	1.9 J	<5.45 U	<5.28 U	<4.41 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	1.74	3.39	4.89	2.44	3.95	4.72	4.94	6.03	5.86	5.07	3.41
Barium	7440-39-3	**350**	820	400	mg/kg	122	77	137	89.4	86.7	63.3 J	169 J	134	167 J	134	103
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.387 J	0.351 J	0.408 J	0.37 J	0.246 J	0.2 J	0.394 J	0.435 J	0.272 J	0.317 J	0.273 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.513 J	0.171 J	**3.51**	0.46 J	0.52 J	0.251 J	0.502 J	0.371 J	0.545 J	0.56 J	0.264 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	9,250	3,080	13,800	6,200	7,550	1,870 J	16,000 J	10,000	13,200 J	10,600	6,040
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<0.947 U	<1.05 U	<0.98 U	<0.93 U	<0.933 U	<1.04 U	<1.01 U	<1.09 U	<1.15 UJ	<1.08 U	<0.916 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	22.2	5.38	19.7	18.5	24.1	4.04 J	22.4 J	16.1	17	20.8	20.6
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	22	5.4	20	18	24	4 J	22 J	16	17	21	21
Cobalt	7440-48-4	NS	NS	NS	mg/kg	10.5	4.22	9.48	8.58	6.91	4.23	6.96	6.24	6.59	7.46	5.89
Copper	7440-50-8	**50**	1720	270	mg/kg	**73**	21.3	**90.6**	**56.1**	46.3	47.3 J	**88.4 J**	**72.8**	**71.4 J**	**84**	33.1
Cyanide	57-12-5	27	40	27	mg/kg	<1.1 UJ	<1.2 UJ	<1.2 UJ	<1.1 UJ	<1.1 UJ	<1.2 UJ	<1.2 UJ	1.1 J	<1.3 UJ	<1.3 UJ	<1.1 UJ
Iron	7439-89-6	NS	NS	NS	mg/kg	18,800	5,920	22,600	18,200	13,700	5,510 J	15,800 J	13,800	14,200 J	16,600	12,800
Lead	7439-92-1	**63**	450	1000	mg/kg	**178**	55	**440**	**146**	**128**	**121 J**	**269 J**	**202**	**254 J**	**233**	**144**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	4,220	531	3,770	4,840	3,060	284 J	3,860 J	1,570	4,160 J	4,250	2,810
Manganese	7439-96-5	1600	2000	10000	mg/kg	430	99.5	315	253	200	38.2 J	210 J	150	196 J	230	271
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**0.46**	<0.09 U	**0.594**	**0.627**	**0.863**	**2.01 J**	**0.668 J**	**1.25**	**1.06 J**	**0.704**	**0.375**
Nickel	7440-02-0	**30**	130	310	mg/kg	19.9	8.84	18.2	17.2	16.3	7.26 J	16.1 J	18.6	13.7	20.9	15.3
Potassium	7440-09-7	NS	NS	NS	mg/kg	3,110	350	2,130	2,250	1,780	<251 U	2,230 J	1,090	1,490 J	2,050	1,140
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	<1.8 U	<2.01 U	3.65	<1.8 U	1.67 J	2.08	1.16 J	1.37 J	1.46 J	1.37 J	0.776 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<0.9 U	<1 U	<0.926 U	<0.902 U	<0.912 U	<1 U	<0.984 U	<1.06 U	0.447 J	0.465 J	<0.882 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	183	<201 U	307	<180 U	190	<200 U	261	441	295	566	<176 U
Thallium	7440-28-0	NS	NS	NS	mg/kg	<1.8 U	<2.01 U	<1.85 U	<1.8 U	<1.82 U	<2 U	<1.97 U	<2.12 U	<2.18 U	<2.11 U	<1.76 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	39.6	15.5	44.8	27.8	27.8	11.8 J	29.4 J	26.5	25	27.7	20.5
Zinc	7440-66-6	**109**	2480	10000	mg/kg	**176**	46.3	**475**	**209**	**148**	106 J	**228 J**	**134**	**228 J**	**209**	85.7
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	84.5	76	81.6	86	85.7	77	79.4	73.5	69.7	73.8	87.3

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	
					Location	PE-01	PE-02	PE-03	PE-04	PE-05	PE-06	PE-06	PE-07	PE-08	PE-09	PE-10
					Sample Name	188_PE-1_20211022	189_PE-2_20211022	190_PE-3_20211022	191_PE-4_20211022	193_PE-5_20211025	194_PE-6_20211025	195_DUP-1	196_PE-7_20211025	197_PE-8_20211025	198_PE-9_20211025	199_PE-10_20211025
					Sample Date	10/22/2021	10/22/2021	10/22/2021	10/22/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021	10/25/2021
					Sample Depth	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	0.000196 J	<0.000638 U	<0.000638 U	<0.000528 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000259 U	<0.000309 U	<0.000269 U	<0.000257 U	<0.000268 U	<0.000303 U	<0.000279 U	<0.0003 U	<0.000319 U	<0.000319 U	<0.000264 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000259 U	<0.000309 U	<0.000269 U	<0.000257 U	<0.000268 U	<0.000303 U	<0.000279 U	<0.0003 U	<0.000319 U	<0.000319 U	<0.000264 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000259 U	<0.000309 U	<0.000269 U	<0.000257 U	<0.000268 U	<0.000303 U	<0.000279 U	<0.0003 U	<0.000319 U	<0.000319 U	<0.000264 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000259 U	<0.000309 U	<0.000269 U	<0.000257 U	<0.000268 U	<0.000303 U	<0.000279 U	<0.0003 U	<0.000319 U	<0.000319 U	<0.000264 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000259 U	<0.000309 U	<0.000269 U	<0.000257 U	<0.000268 U	<0.000303 U	<0.000279 U	<0.0003 U	<0.000319 U	<0.000319 U	<0.000264 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	0.000843	0.000557	**0.00162**	0.000517	0.0006	**0.00106**	**0.00119**	0.000735	**0.00274**	**0.00208**	0.000383
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	0.000097 J	<0.000309 U	0.000155 J	0.000101 J	0.000122 J	0.000073 J	0.000093 J	0.000082 J	0.000126 J	0.000086 J	0.0001 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	<0.000528 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	<0.000518 U	<0.000618 U	<0.000539 U	<0.000514 U	<0.000535 U	<0.000607 U	<0.000557 U	<0.000599 U	<0.000638 U	<0.000638 U	0.00163
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.00094 J	0.000557	0.00178 J	0.000618 J	0.000722 J	0.00113 J	0.00128 J	0.000817 J	0.00287 J	0.00217 J	0.000483 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample			Perimeter Documentation Sample	Base Documentation Sample						
					Location	PE-11	PE-12	PE-13	PE-14	PE-15	PE-16	PE-17	PE-18	PE-19	PE-20	PE-21
					Sample Name	200_PE-11_20211025	203_PE-12_20211105	204_PE-13_20211105	205_PE-14_20211105	208_PE-15_20211110	210_PE-16_20211111	212_PE-17_20211118	213_PE-18_20211118	214_PE-19_20211118	216_PE-20_20211119	217_PE-21_20211119
					Sample Date	10/25/2021	11/05/2021	11/05/2021	11/05/2021	11/10/2021	11/11/2021	11/18/2021	11/18/2021	11/18/2021	11/19/2021	11/19/2021
					Sample Depth	6-6.5	7.5-8	7.5-8	10-10.5	10-10.5	10-10.5	9-9.5	8-8.5	8-8.5	8-8.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	0.0078 J	<0.0018 U	<0.0018 U	<0.002 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	0.00069 J	<0.0018 U	<0.0018 U	<0.002 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0029 U	<0.0038 U	<0.003 U	<0.0034 U	<0.0044 U	<0.0038 U	<0.0043 U	<0.003 U	<0.0026 U	<0.0027 U	<0.003 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 UJ	<0.001 UJ
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	0.00035 J	<0.0018 U	<0.0018 U	<0.002 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0019 U	0.00022 J	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	0.00038 J	<0.0018 U	<0.0018 U	<0.002 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.077 U	<0.1 U	<0.081 U	<0.09 U	<0.12 U	<0.1 U	<0.11 U	<0.08 U	<0.07 U	<0.071 U	<0.08 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.0096 U	<0.012 U	<0.01 U	<0.011 U	<0.015 U	<0.013 U	<0.014 U	<0.0099 UJ	<0.0088 UJ	<0.0089 U	<0.01 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	0.024	**0.072**	0.016	<0.011 U	**0.067**	**0.44 J**	<0.014 U	0.015 J	<0.0088 U	<0.0089 U	<0.01 U
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0038 U	<0.005 U	<0.0041 U	<0.0045 U	<0.0059 U	<0.0051 U	<0.0057 U	<0.004 U	<0.0035 U	<0.0036 UJ	<0.004 UJ
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0038 U	<0.005 U	<0.0041 U	<0.0045 U	<0.0059 U	<0.0051 U	<0.0057 U	<0.004 U	<0.0035 U	<0.0036 U	<0.004 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.0096 U	<0.012 U	<0.01 U	<0.011 U	<0.015 U	<0.013 U	<0.014 U	<0.0099 U	<0.0088 U	<0.0089 U	<0.01 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	<0.0014 U	<0.0019 U	<0.0015 U	<0.0017 U	<0.0022 U	<0.0019 U	<0.0021 U	<0.0015 U	0.00014 J	<0.0013 U	<0.0015 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.0038 U	<0.005 U	<0.0041 U	<0.0045 U	<0.0059 U	<0.0051 U	<0.0057 UJ	<0.004 U	<0.0035 U	<0.0036 UJ	<0.004 UJ
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
Cymene	99-87-6	NS	NS	NS	mg/kg	<0.00096 U	0.00014 J	0.00029 J	<0.0011 U	<0.0015 U	0.00084 J	0.0004 J	0.00011 J	<0.00088 U	<0.00089 U	<0.001 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	<0.0096 U	<0.012 U	<0.01 U	<0.011 U	<0.015 U	<0.013 U	<0.014 U	<0.0099 U	<0.0088 U	<0.0089 U	<0.01 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	<0.00096 U	0.00018 J	<0.001 U	<0.0011 U	<0.0015 U	0.00025 J	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.0038 U	<0.005 U	<0.0041 U	<0.0045 U	<0.0059 U	<0.0051 U	<0.0057 U	<0.004 U	<0.0035 U	<0.0036 U	<0.004 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	0.0005 J	<0.00088 U	<0.00089 U	<0.001 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	0.0012 J	<0.0028 U	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	<0.0096 U	<0.012 U	<0.01 U	<0.011 U	<0.015 U	0.0064 J	<0.014 U	0.0037 J	<0.0088 UJ	<0.0089 U	<0.01 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	<0.0096 U	<0.012 U	<0.01 U	<0.011 U	<0.015 U	<0.013 U	<0.014 U	<0.0099 U	<0.0088 U	<0.0089 U	<0.01 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	<0.0048 U	<0.0063 U	<0.0051 U	<0.0056 U	<0.0074 U	<0.0064 U	<0.0071 U	<0.005 U	<0.0044 U	<0.0044 U	<0.005 U
Naphthalene	91-20-3	12	12	500	mg/kg	<0.0038 U	0.0018 J	<0.0041 U	<0.0045 U	<0.0059 U	0.00089 J	0.0031 J	0.025 J	<0.0035 U	<0.0036 U	<0.004 U
n-Butylbenzene	104-51-8	12	12	500	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	0.0013 J	<0.00088 U	<0.00089 U	<0.001 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	0.00032 J	<0.00088 U	<0.00089 U	<0.001 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	0.0005 J	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	0.0023 J	<0.00088 U	<0.00089 U	<0.001 U
Styrene	100-42-5	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	<0.0026 U	<0.0028 U	0.00039 J	<0.0018 U	<0.0018 U	<0.002 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.0019 U	<0.0025 U	<0.002 U	<0.0022 U	<0.003 U	0.0021 J	0.004 J	<0.002 U	<0.0018 U	<0.0018 U	<0.002 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	0.0017 J	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	<0.0014 U	<0.0019 U	<0.0015 U	<0.0017 U	<0.0022 U	<0.0019 U	<0.0021 U	<0.0015 U	<0.0013 U	<0.0013 U	<0.0015 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 U	<0.001 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	<0.0048 U	<0.0063 U	<0.0051 U	<0.0056 U	<0.0074 U	<0.0064 U	<0.0071 U	<0.005 U	<0.0044 U	<0.0044 U	<0.005 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	<0.00048 U	<0.00063 U	<0.00051 U	<0.00056 U	<0.00074 U	<0.00064 U	<0.00071 U	<0.0005 U	<0.00044 U	<0.00044 U	<0.0005 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	<0.0038 U	<0.005 U	<0.0041 U	<0.0045 U	<0.0059 U	<0.0051 U	<0.0057 U	<0.004 U	<0.0035 U	<0.0036 UJ	<0.004 UJ
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	<0.0096 U	<0.012 U	<0.01 U	<0.011 U	<0.015 U	<0.013 U	<0.014 U	<0.0099 U	<0.0088 U	<0.0089 U	<0.01 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	<0.00096 U	<0.0012 U	<0.001 U	<0.0011 U	<0.0015 U	<0.0013 U	<0.0014 U	<0.00099 U	<0.00088 U	<0.00089 UJ	<0.001 UJ

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample			Perimeter Documentation Sample	Base Documentation Sample						
					Location	PE-11	PE-12	PE-13	PE-14	PE-15	PE-16	PE-17	PE-18	PE-19	PE-20	PE-21
					Sample Name	200_PE-11_20211025	203_PE-12_20211105	204_PE-13_20211105	205_PE-14_20211105	208_PE-15_20211110	210_PE-16_20211111	212_PE-17_20211118	213_PE-18_20211118	214_PE-19_20211118	216_PE-20_20211119	217_PE-21_20211119
					Sample Date	10/25/2021	11/05/2021	11/05/2021	11/05/2021	11/10/2021	11/11/2021	11/18/2021	11/18/2021	11/18/2021	11/19/2021	11/19/2021
					Sample Depth	6-6.5	7.5-8	7.5-8	10-10.5	10-10.5	10-10.5	9-9.5	8-8.5	8-8.5	8-8.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.029 U	<0.032 UJ	<0.03 UJ	<0.028 UJ	<0.035 UJ	<0.035 U	<0.032 U	<0.15 U	<0.029 U	<0.086 U	<0.03 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 UJ	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.12 U	<0.13 U	<0.12 U	<0.11 U	<0.14 UJ	<0.14 U	<0.13 U	<0.59 U	<0.12 U	<0.34 U	<0.12 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.17 U	<0.21 UJ	<0.21 U	<0.19 U	<0.89 U	<0.18 U	<0.52 U	<0.18 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 UJ	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.93 U	<1 U	<0.96 U	<0.89 U	<1.1 UJ	<1.1 U	<1 U	<4.7 U	<0.94 U	<2.8 U	<0.95 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 UJ	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	<0.23 U	0.074 J	0.076 J	0.36	<0.28 U	0.056 J	0.16 J	0.17 J	<0.23 U	<0.69 U	0.034 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 UJ	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.42 U	<0.46 U	<0.43 U	<0.4 U	<0.51 UJ	<0.5 U	<0.46 U	<2.1 U	<0.42 U	<1.2 U	<0.42 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	<0.28 U	0.043 J	<0.29 U	0.087 J	<0.34 UJ	0.04 J	**0.34**	<1.4 U	<0.28 U	<0.82 U	0.035 J
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.5 U	<0.55 U	<0.52 U	<0.48 U	<0.61 UJ	<0.6 U	<0.55 U	<2.6 U	<0.51 U	<1.5 U	<0.51 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 UJ	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.27 U	<0.3 U	<0.28 U	<0.26 U	<0.33 UJ	<0.32 U	<0.3 U	<1.4 U	<0.27 U	<0.8 U	<0.28 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	0.028 J	0.15 J	0.17	0.89	0.048 J	0.16 J	0.24	0.33 J	<0.16 U	0.15 J	0.14 J
Acenaphthylene	208-96-8	100	107	500	mg/kg	<0.15 U	0.18	0.19	1.2	0.043 J	0.1 J	0.15 J	0.32 J	<0.16 U	0.32 J	0.28
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	0.071 J	0.41	0.45	2.4	0.11 J	0.46	0.55	0.78	<0.12 U	0.49	0.35
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	0.21	**1.4**	**1.2**	**5.7**	0.34	**2.2**	**2.6**	**2.5**	0.035 J	**2**	0.85
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	0.24	**1.8**	**1.2**	**6.2**	0.41	**2.5**	**2.6**	**2.3**	<0.16 U	**1.9**	0.85
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	0.3	**1.9**	**1.5**	**7**	0.5	**2.6**	**2.9**	**2.6**	0.039 J	**2.3**	0.98
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	0.17	1.3	0.9	4.6	0.32	1.7	1.6	1.3	0.023 J	0.99	0.49
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	0.071 J	0.65	0.5	**2.5**	0.15	**0.96**	**0.83**	**0.96**	<0.12 U	0.68	0.31
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.63 U	<0.69 UJ	<0.65 UJ	<0.6 UJ	<0.76 UJ	<0.75 UJ	<0.69 UJ	<3.2 UJ	<0.63 UJ	<1.8 U	<0.64 U
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	<0.44 U	<0.48 U	<0.45 U	0.093 J	<0.54 U	<0.53 U	0.058 J	<2.2 U	<0.44 U	<1.3 U	<0.45 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.21 U	<0.23 U	<0.22 U	<0.2 U	<0.25 U	<0.25 U	<0.23 U	<1.1 U	<0.21 U	<0.62 U	<0.21 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.17 U	<0.21 U	<0.21 U	<0.19 U	<0.89 U	<0.18 U	<0.52 U	<0.18 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<0.23 U	<0.26 U	<0.24 U	<0.22 U	<0.28 U	<0.28 U	<0.25 U	<1.2 U	<0.23 U	<0.69 U	<0.24 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	0.26	<0.21 U	<0.2 U	0.069 J	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	0.021 J	0.08 J	0.22	1.1	0.049 J	0.1 J	0.18 J	0.28 J	<0.19 U	0.17 J	0.12 J
Chrysene	218-01-9	**1**	1	56	mg/kg	0.21	**1.3**	**1.1**	**5.6**	0.33	**2**	**2.2**	**2.6**	0.031 J	**2**	0.83
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	0.031 J	0.28	0.23	**1.2**	0.07 J	**0.35**	**0.34**	0.31 J	<0.12 U	0.25 J	0.1 J
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	<0.19 U	0.14 J	0.12 J	0.59	0.026 J	0.08 J	0.21	0.26 J	<0.19 U	0.14 J	0.083 J
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	0.41	2.5	2.4	9.8	0.63	4.2	5.3	4.9	0.051 J	3.8	1.8
Fluorene	86-73-7	**30**	386	500	mg/kg	0.028 J	0.19 J	0.16 J	0.77	0.042 J	0.17 J	0.3	0.56 J	<0.19 U	0.19 J	0.16 J
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	<0.12 U	<0.13 U	<0.12 U	<0.11 U	<0.14 U	<0.14 U	<0.13 U	<0.59 U	<0.12 U	<0.34 U	<0.12 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	<0.55 U	<0.61 U	<0.57 U	<0.53 U	<0.67 U	<0.66 U	<0.6 U	<2.8 U	<0.56 U	<1.6 U	<0.56 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	<0.15 U	<0.17 U	<0.16 U	<0.15 U	<0.19 U	<0.18 U	<0.17 U	<0.79 U	<0.16 U	<0.46 U	<0.16 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	0.19	**1.3**	**0.9**	**4.6**	0.36	**1.8**	**1.8**	**1.4**	<0.16 U	**1.1**	0.5
Isophorone	78-59-1	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.17 U	<0.21 U	<0.21 U	<0.19 U	<0.89 U	<0.18 U	<0.52 U	<0.18 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	0.058 J	0.46	0.21	1	0.053 J	0.29	0.95	0.3 J	<0.19 U	0.17 J	0.1 J
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	<0.17 U	<0.19 U	<0.18 U	<0.17 U	<0.21 U	<0.21 U	<0.19 U	<0.89 U	<0.18 U	<0.52 U	<0.18 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	<0.19 U	<0.21 U	<0.2 U	<0.19 U	<0.23 U	<0.23 U	<0.21 U	<0.99 U	<0.19 U	<0.57 U	<0.2 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	<0.15 U	<0.17 U	<0.16 U	<0.15 U	<0.19 U	<0.18 U	<0.17 U	<0.79 U	<0.16 U	<0.46 U	<0.16 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	<0.15 U	<0.17 U	<0.16 U	<0.15 U	<0.19 UJ	<0.18 U	<0.17 U	<0.79 U	<0.16 U	<0.46 U	<0.16 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	0.22	1.2	1.7	7.6	0.39	1.6	1.7	3.6	0.032 J	2.1	1.3
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	<0.19 U	<0.21 U	<0.2 U	0.057 J	<0.23 UJ	<0.23 U	0.067 J	<0.99 U	<0.19 U	<0.57 U	<0.2 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	0.4	2.4	2.1	9	0.57	4	4.8	4.7	0.055 J	3.6	1.8

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample			Perimeter Documentation Sample	Base Documentation Sample						
					Location	PE-11	PE-12	PE-13	PE-14	PE-15	PE-16	PE-17	PE-18	PE-19	PE-20	PE-21
					Sample Name	200_PE-11_20211025	203_PE-12_20211105	204_PE-13_20211105	205_PE-14_20211105	208_PE-15_20211110	210_PE-16_20211111	212_PE-17_20211118	213_PE-18_20211118	214_PE-19_20211118	216_PE-20_20211119	217_PE-21_20211119
					Sample Date	10/25/2021	11/05/2021	11/05/2021	11/05/2021	11/10/2021	11/11/2021	11/18/2021	11/18/2021	11/18/2021	11/19/2021	11/19/2021
					Sample Depth	6-6.5	7.5-8	7.5-8	10-10.5	10-10.5	10-10.5	9-9.5	8-8.5	8-8.5	8-8.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	<0.00186 U	<0.00203 UJ	0.00194 J	<0.00177 UJ	<0.00221 U	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	0.0022 J	<0.00203 U	<0.00188 U	<0.00177 U	0.000635 J	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	**0.00469 J**	<0.0038 UJ	**0.00422 J**	**0.0135 J**	<0.00415 U	<0.004 U	<0.0037 U	<0.0343 U	<0.00349 U	<0.00334 U	<0.0035 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	<0.00186 U	<0.00203 UJ	<0.00188 UJ	<0.00177 UJ	<0.00221 U	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	<0.000775 U	<0.000845 U	<0.000783 U	<0.000738 U	<0.000923 U	<0.000888 U	<0.000823 U	<0.00762 U	<0.000775 U	<0.000742 U	<0.000778 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	0.00117 J	<0.00254 U	0.00163 J	0.004	<0.00277 U	<0.00266 U	<0.00247 U	<0.0228 U	<0.00233 U	<0.00223 U	<0.00233 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	<0.00186 U	<0.00203 U	<0.00188 U	<0.00177 U	<0.00221 U	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	<0.00186 U	<0.00203 U	<0.00188 U	<0.00177 U	<0.00221 U	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	<0.00186 U	<0.00203 U	<0.00188 U	<0.00177 U	<0.00221 U	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0155 U	<0.0169 U	<0.0157 U	<0.0148 U	<0.0184 U	<0.0178 U	<0.0165 U	<0.152 U	<0.0155 U	<0.0148 U	<0.0156 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	<0.00186 U	<0.00203 UJ	<0.00188 UJ	<0.00177 UJ	<0.00221 U	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	0.00193 J	<0.00127 UJ	<0.00117 UJ	<0.00111 UJ	<0.00138 U	<0.00133 U	<0.00124 U	<0.0114 U	<0.00116 U	<0.00111 U	<0.00117 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	<0.000775 U	<0.000845 U	<0.000783 U	<0.000738 U	<0.000923 U	<0.000888 U	<0.000823 U	<0.00762 U	<0.000775 U	<0.000742 U	<0.000778 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	<0.000775 U	<0.000845 U	<0.000783 U	<0.000738 U	<0.000923 U	<0.000888 U	<0.000823 U	<0.00762 U	<0.000775 U	<0.000742 U	<0.000778 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00232 U	<0.00254 UJ	<0.00235 UJ	<0.00221 UJ	<0.00277 U	<0.00266 U	<0.00247 U	<0.0228 U	<0.00233 U	<0.00223 U	<0.00233 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00186 U	<0.00203 U	<0.00188 U	<0.00177 U	<0.00221 U	<0.00213 U	<0.00198 U	<0.0183 U	<0.00186 U	<0.00178 U	<0.00187 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	<0.000775 U	<0.000845 U	<0.000783 U	<0.000738 U	<0.000923 U	<0.000888 U	<0.000823 U	<0.00762 U	<0.000775 U	<0.000742 U	<0.000778 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	0.0011 J	<0.00254 U	0.00348	0.00448 J	<0.00277 U	<0.00266 U	<0.00247 U	<0.0228 U	<0.00233 U	<0.00223 U	<0.00233 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	<0.00093 U	<0.00101 UJ	<0.00094 UJ	<0.000886 UJ	<0.00111 U	<0.00106 U	<0.000988 U	<0.00914 U	<0.00093 U	<0.000891 U	<0.000933 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00349 U	<0.0038 U	<0.00352 U	<0.00332 U	<0.00415 U	<0.004 U	<0.0037 U	<0.0343 U	<0.00349 U	<0.00334 U	<0.0035 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00349 U	<0.0038 U	<0.00352 U	<0.00332 U	<0.00415 U	<0.004 U	<0.0037 U	<0.0343 U	<0.00349 U	<0.00334 U	<0.0035 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0349 U	<0.038 U	<0.0352 U	<0.0332 U	<0.0415 U	<0.04 U	<0.037 U	<0.343 U	<0.0349 U	<0.0334 U	<0.035 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.193 U	<0.209 U	<0.199 U	<0.187 U	<0.234 U	<0.23 U	<0.21 U	<0.199 U	<0.195 U	<0.191 U	<0.197 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.193 U	<0.209 U	<0.199 U	<0.187 U	<0.234 U	<0.23 U	<0.21 U	<0.199 U	<0.195 U	<0.191 U	<0.197 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	<0.193 U	<0.209 U	<0.199 U	<0.187 U	<0.234 U	<0.23 U	<0.21 U	<0.199 U	<0.195 U	<0.191 U	<0.197 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	<0.0365 U	<0.0453 U	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	<0.0365 U	<0.0453 U	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	<0.0365 U	<0.0453 U	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	<0.0365 U	<0.0453 U	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	0.0535	0.0104 J	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	0.00492 J	<0.0411 U	0.0127 J	0.0602	0.0115 J	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	0.00526 J
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	<0.0365 U	<0.0453 U	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	<0.0365 U	<0.0453 U	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0371 U	<0.0411 U	<0.0402 U	0.00681 J	<0.0453 U	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	<0.0385 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	0.00492 J	<0.0411 U	0.0127 J	**0.121 J**	0.0219 J	<0.045 U	<0.0409 U	<0.0394 U	<0.0392 U	<0.0381 U	0.00526 J
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	6,810	7,110	6,900	6,360	5,230	4,580	5,960	7,170	8,810	7,100	7,940
Antimony	7440-36-0	NS	NS	NS	mg/kg	<4.49 U	1.22 J	1.19 J	0.591 J	1.13 J	1.62 J	1.55 J	<4.61 U	<4.62 U	<4.44 U	<4.52 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	4.02	4.87	4.54	4.34	7.78	6.48	8.96 J	3.19	2.64	1.78	2.96
Barium	7440-39-3	**350**	820	400	mg/kg	84.2	180 J	247	219	140	172	118	82.3	90.5	75.5	107
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.341 J	0.507	0.303 J	0.26 J	0.414 J	0.362 J	0.41 J	0.295 J	0.324 J	<0.444 U	0.389 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.359 J	0.223 J	0.688 J	0.627 J	0.806 J	0.714 J	0.5 J	0.636 J	0.305 J	0.515 J	0.525 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	20,300	6,170 J	19,200	19,200	13,100	10,400	14,900 J	8,210	3,760	3,780	10,500
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<0.934 U	0.258 J	<0.978 U	<0.908 U	<1.13 UJ	0.642 J	<1.03 U	<0.967 U	<0.963 U	<0.934 U	<0.95 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	16.9	14.5	21	39.5	15.9	11.2	15.5	16	19.3	18.5	18.2
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	17	14 J	21	**40**	16	10 J	16	16	19	18	18
Cobalt	7440-48-4	NS	NS	NS	mg/kg	6.26	6.45 J	7.82	6.57	7.04	5.98	8.79 J	7.31	9.06	7.41	8
Copper	7440-50-8	**50**	1720	270	mg/kg	40.7	**84.1 J**	**88.4**	**61.3**	**176**	**90.3**	**64.1 J**	42.6	31.2	24	34.8
Cyanide	57-12-5	27	40	27	mg/kg	0.49 J	<1.3 U	<1.2 U	0.28 J	<1.4 UJ	<1.3 UJ	0.34 J	<1.1 UJ	<1.1 UJ	<1.1 UJ	<1.1 UJ
Iron	7439-89-6	NS	NS	NS	mg/kg	14,300	13,200 J	16,800	12,900	11,400	17,200	16,400	12,800	15,200	13,800	14,700
Lead	7439-92-1	**63**	450	1000	mg/kg	**123**	**1,790 J**	**523**	**385**	**297**	**1,320**	**278**	**181**	**104**	60	**194**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	6,560	1,720 J	5,210	3,940	2,630	3,120	4,800 J	4,460	3,190	3,760	3,920
Manganese	7439-96-5	1600	2000	10000	mg/kg	286	154 J	364	217	177	254	304 J	152	250	242	256
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**0.447**	**1.54**	**0.641**	**0.737**	**1.22**	**1.3**	**0.618 J**	**0.583**	**0.296**	**0.432**	**0.313**
Nickel	7440-02-0	**30**	130	310	mg/kg	14.1	18	19.8	29.3	17.7	13.2	17.3	17.9	16.9	15.6	17.1
Potassium	7440-09-7	NS	NS	NS	mg/kg	1,420	911 J	1,560	1,480	998	844	1,260 J	1,900	2,800	1,920	2,130
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	0.98 J	0.913 J	1.13 J	0.761 J	1.01 J	1.33 J	1.88 J	0.415 J	<1.85 U	<1.78 U	0.561 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<0.899 U	<1.01 U	0.358 J	<0.896 U	<1.09 U	<1.06 U	0.32 J	0.774 J	<0.925 U	<0.888 U	<0.904 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	192	316 J	<184 U	181	345 J	234	245 J	<184 U	<185 U	90 J	148 J
Thallium	7440-28-0	NS	NS	NS	mg/kg	<1.8 U	<2.03 U	<1.84 U	<1.79 U	<2.18 U	<2.13 U	<2 U	<1.84 U	<1.85 U	<1.78 U	<1.81 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	25.4	22.8	25.4	34.7	24.5	20.8	26	31.1	28.3	23.2	23.8
Zinc	7440-66-6	**109**	2480	10000	mg/kg	108	**187 J**	**420**	**350**	**296**	**243**	**185**	**213**	78.4	55.9	109
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	85.6	77.6	81.8	88.1	70.6	71.6	77.5	82.7	83.1	85.6	84.2

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample			Perimeter Documentation Sample	Base Documentation Sample						
					Location	PE-11	PE-12	PE-13	PE-14	PE-15	PE-16	PE-17	PE-18	PE-19	PE-20	PE-21
					Sample Name	200_PE-11_20211025	203_PE-12_20211105	204_PE-13_20211105	205_PE-14_20211105	208_PE-15_20211110	210_PE-16_20211111	212_PE-17_20211118	213_PE-18_20211118	214_PE-19_20211118	216_PE-20_20211119	217_PE-21_20211119
					Sample Date	10/25/2021	11/05/2021	11/05/2021	11/05/2021	11/10/2021	11/11/2021	11/18/2021	11/18/2021	11/18/2021	11/19/2021	11/19/2021
					Sample Depth	6-6.5	7.5-8	7.5-8	10-10.5	10-10.5	10-10.5	9-9.5	8-8.5	8-8.5	8-8.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	0.000196 J	<0.000552 U	<0.00053 U	<0.000554 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000268 U	<0.00029 U	<0.000269 U	<0.00027 U	<0.000337 U	<0.00031 U	<0.000296 U	<0.00027 U	<0.000276 U	<0.000265 U	<0.000277 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000268 U	<0.00029 U	0.00018 J	0.00035	<0.000337 U	<0.00031 U	<0.000296 U	<0.00027 U	<0.000276 U	<0.000265 U	<0.000277 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	0.000174 J	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000268 U	0.000069 J	<0.000269 U	<0.00027 U	<0.000337 U	0.00016 J	0.000075 J	<0.00027 U	<0.000276 U	<0.000265 U	<0.000277 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000268 U	<0.00029 U	<0.000269 U	<0.00027 U	<0.000337 U	<0.00031 U	<0.000296 U	<0.00027 U	<0.000276 U	<0.000265 U	<0.000277 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000268 U	<0.00029 U	0.000194 J	0.000101 J	<0.000337 U	<0.00031 U	<0.000296 U	0.000127 J	<0.000276 U	<0.000265 U	<0.000277 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	0.000394	0.000403	0.000516	**0.000933**	0.000243 J	<0.00031 U	0.000169 J	0.0006	0.000714	0.000603	0.000514
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	0.000103 J	0.000139 J	0.000148 J	0.000057 J	<0.000337 U	0.000604	0.000385	0.000088 J	<0.000276 U	<0.000265 U	0.000061 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	0.00007 J	0.000076 J	0.000071 J	0.000068 J	0.000074 J
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	0.000067 J	0.000192 J	<0.000674 U	<0.000619 U	<0.000592 U	<0.00054 U	<0.000552 U	<0.00053 U	<0.000554 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	<0.000619 U	<0.000592 UJ	<0.00054 UJ	<0.000552 UJ	<0.00053 UJ	<0.000554 UJ
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	<0.000536 U	<0.00058 U	<0.000538 U	<0.000539 U	<0.000674 U	0.00106	<0.000592 UJ	<0.00054 UJ	<0.000552 UJ	<0.00053 UJ	<0.000554 UJ
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.000497 J	0.000542 J	0.000664 J	0.00099 J	0.000243 J	0.000604	0.000554 J	0.000688 J	0.000714	0.000603	0.000575 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample	PAH Delineation Sample (LSB-37)				PAH Delineation Sample (LSB-37)/Base Documentation Sample		Perimeter Documentation Sample
					Location	PE-22	PE-23	PE-24	PE-25	PE-26	PE-27	PE-28	PE-29	PE-29	PE-30
					Sample Name	218_PE-22_20211119	220_PE-23_20211124	221_PE-24_20211124	223_PE-25_20211129	224_PE-26_20211129	225_PE-27_20211129	226_PE-28_20211129	227_PE-29_20211129	228_DUP-2	229_PE-30_20211129
					Sample Date	11/19/2021	11/24/2021	11/24/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021
					Sample Depth	9-9.5	9-9.5	7-7.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	0.00057 J	0.00024 J	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	<0.0025 U	0.00044 J	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0037 U	<0.0032 U	<0.0038 U	NA	NA	NA	NA	<0.0028 U	<0.0027 U	<0.0027 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	<0.0012 UJ	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.099 U	<0.084 U	<0.1 U	NA	NA	NA	NA	<0.074 U	<0.071 U	<0.073 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.012 U	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.0092 U	<0.0089 UJ	<0.0092 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	0.01 J	<0.01 U	0.0072 J	NA	NA	NA	NA	0.018	0.012	<0.0092 U
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.005 UJ	<0.0042 U	<0.005 U	NA	NA	NA	NA	<0.0037 U	<0.0036 U	<0.0037 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.005 U	<0.0042 U	<0.005 U	NA	NA	NA	NA	<0.0037 U	<0.0036 U	<0.0037 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.012 U	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.0092 U	<0.0089 U	<0.0092 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	<0.0018 U	<0.0016 U	<0.0019 U	NA	NA	NA	NA	<0.0014 U	<0.0013 U	<0.0014 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.005 UJ	<0.0042 U	<0.005 U	NA	NA	NA	NA	<0.0037 U	<0.0036 U	<0.0037 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
Cymene	99-87-6	NS	NS	NS	mg/kg	0.00026 J	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	<0.012 U	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.0092 U	<0.0089 U	<0.0092 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.005 U	<0.0042 U	<0.005 U	NA	NA	NA	NA	<0.0037 U	<0.0036 U	<0.0037 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	<0.012 U	<0.01 U	<0.012 U	NA	NA	NA	NA	0.0034 J	0.0024 J	<0.0092 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	<0.012 U	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.0092 U	<0.0089 U	<0.0092 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	<0.0062 U	<0.0052 U	<0.0062 U	NA	NA	NA	NA	<0.0046 U	<0.0044 U	<0.0046 U
Naphthalene	91-20-3	12	12	500	mg/kg	0.002 J	0.0064	<0.005 U	NA	NA	NA	NA	0.00074 J	<0.0036 U	<0.0037 U
n-Butylbenzene	104-51-8	12	12	500	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Styrene	100-42-5	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	<0.0025 U	<0.0021 U	<0.0025 U	NA	NA	NA	NA	<0.0018 U	<0.0018 U	<0.0018 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.0025 U	<0.0021 U	0.00073 J	NA	NA	NA	NA	0.00046 J	0.00046 J	<0.0018 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	<0.0018 U	<0.0016 U	<0.0019 U	NA	NA	NA	NA	<0.0014 U	<0.0013 U	<0.0014 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	<0.0062 U	<0.0052 U	<0.0062 U	NA	NA	NA	NA	<0.0046 U	<0.0044 U	<0.0046 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	<0.00062 U	<0.00052 U	<0.00062 U	NA	NA	NA	NA	<0.00046 U	<0.00044 U	<0.00046 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	<0.005 UJ	<0.0042 U	<0.005 U	NA	NA	NA	NA	<0.0037 U	<0.0036 U	<0.0037 U
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	<0.012 U	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.0092 U	<0.0089 U	<0.0092 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	<0.0012 UJ	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.00092 U	<0.00089 U	<0.00092 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample	PAH Delineation Sample (LSB-37)				PAH Delineation Sample (LSB-37)/Base Documentation Sample		Perimeter Documentation Sample
					Location	PE-22	PE-23	PE-24	PE-25	PE-26	PE-27	PE-28	PE-29	PE-29	PE-30
					Sample Name	218_PE-22_20211119	220_PE-23_20211124	221_PE-24_20211124	223_PE-25_20211129	224_PE-26_20211129	225_PE-27_20211129	226_PE-28_20211129	227_PE-29_20211129	228_DUP-2	229_PE-30_20211129
					Sample Date	11/19/2021	11/24/2021	11/24/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021
					Sample Depth	9-9.5	9-9.5	7-7.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.031 U	<0.15 U	<0.15 U	NA	NA	NA	NA	<0.031 U	<0.029 U	<0.028 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.12 U	<0.59 U	<0.62 U	NA	NA	NA	NA	<0.12 U	<0.12 U	<0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.18 U	<0.88 U	<0.92 U	NA	NA	NA	NA	<0.18 U	<0.17 U	<0.17 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	0.15 J	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.98 U	<4.7 U	<4.9 U	NA	NA	NA	NA	<0.98 U	<0.92 U	<0.91 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	<0.22 U	<0.2 U	<0.19 U	<0.2 U	<0.2 U	<0.19 U	<0.19 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.94	<1.2 U	0.52 J	<0.26 U	<0.25 U	<0.23 U	0.052 J	<0.24 U	<0.23 U	<0.23 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	0.12 J	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.44 U	<2.1 U	<2.2 U	NA	NA	NA	NA	<0.44 U	<0.41 U	<0.41 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	**0.93**	<1.4 U	**0.72 J**	NA	NA	NA	NA	<0.29 U	<0.28 U	<0.27 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.53 U	<2.5 U	<2.7 U	NA	NA	NA	NA	<0.53 U	<0.5 U	<0.49 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 UJ	<0.19 U	<0.19 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.29 U	<1.4 U	<1.4 U	NA	NA	NA	NA	<0.28 U	<0.27 U	<0.26 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	1.8	0.34 J	1.3	0.022 J	0.06 J	0.021 J	0.036 J	<0.16 U	<0.15 U	<0.15 U
Acenaphthylene	208-96-8	100	107	500	mg/kg	1	<0.78 U	0.46 J	<0.17 U	<0.16 U	<0.16 U	<0.16 U	<0.16 U	<0.15 U	0.034 J
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	3	0.67	2.3	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	0.039 J
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	**14**	0.86	**7.4**	<0.13 U	<0.12 U	0.064 J	0.042 J	0.044 J	<0.12 U	0.13
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	**13**	0.68 J	**7.3**	<0.17 U	<0.16 U	0.053 J	<0.16 U	<0.16 U	<0.15 U	0.14 J
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	**15**	0.83	**7.7**	<0.13 U	<0.12 U	0.064 J	0.052 J	0.049 J	<0.12 U	0.16
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	7.8	0.38 J	4.8	<0.17 U	<0.16 U	0.033 J	0.025 J	0.026 J	<0.15 U	0.09 J
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	**4.1**	0.29 J	**2.2**	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	0.055 J
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.66 U	<3.2 UJ	<3.3 UJ	NA	NA	NA	NA	<0.66 UJ	<0.62 UJ	<0.61 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	0.41 J	<2.2 U	<2.3 U	NA	NA	NA	NA	<0.46 U	<0.44 U	<0.43 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.22 U	<1 U	<1.1 U	NA	NA	NA	NA	<0.22 U	<0.21 U	<0.2 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.18 U	<0.88 U	<0.92 U	NA	NA	NA	NA	<0.18 U	<0.17 U	<0.17 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<0.25 U	<1.2 U	<1.2 U	NA	NA	NA	NA	<0.24 U	<0.23 U	<0.23 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	0.82	0.32 J	0.27 J	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Chrysene	218-01-9	**1**	1	56	mg/kg	**13**	0.8	**7.3**	<0.13 U	<0.12 U	0.052 J	0.04 J	0.04 J	<0.12 U	0.13
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	**1.6**	0.11 J	**1.2**	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.11 U
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	1.5	0.23 J	0.51 J	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	32	1.9	10	0.036 J	<0.12 U	0.11 J	0.077 J	0.063 J	<0.12 U	0.25
Fluorene	86-73-7	**30**	386	500	mg/kg	1.3	0.31 J	0.94 J	<0.22 U	<0.2 U	0.022 J	0.035 J	<0.2 U	<0.19 U	<0.19 U
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	<0.12 U	<0.59 U	<0.62 U	NA	NA	NA	NA	<0.12 U	<0.12 U	<0.11 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	<0.59 U	<2.8 U	<2.9 U	NA	NA	NA	NA	<0.58 U	<0.55 U	<0.54 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	<0.16 U	<0.78 U	<0.82 U	NA	NA	NA	NA	<0.16 U	<0.15 U	<0.15 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	**10**	0.41 J	**4.7**	<0.17 U	<0.16 U	0.033 J	0.028 J	0.028 J	<0.15 U	0.086 J
Isophorone	78-59-1	NS	NS	NS	mg/kg	<0.18 U	<0.88 U	<0.92 U	NA	NA	NA	NA	<0.18 U	<0.17 U	<0.17 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	5.1	0.19 J	2.2	0.079 J	0.048 J	0.048 J	0.35	0.042 J	<0.19 U	0.025 J
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	<0.18 U	<0.88 U	<0.92 U	NA	NA	NA	NA	<0.18 U	<0.17 U	<0.17 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	<0.2 U	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	<0.16 U	<0.78 U	<0.82 U	NA	NA	NA	NA	<0.16 U	<0.15 U	<0.15 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	<0.16 U	<0.78 U	<0.82 U	NA	NA	NA	NA	<0.16 U	<0.15 U	<0.15 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	6.7	2.3	6.3	0.03 J	0.04 J	0.093 J	0.099 J	0.038 J	<0.12 U	0.15
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	0.3	<0.98 U	<1 U	NA	NA	NA	NA	<0.2 U	<0.19 U	<0.19 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	30	1.6	13	0.04 J	0.11 J	0.12	0.088 J	0.065 J	<0.12 U	0.26

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample	PAH Delineation Sample (LSB-37)				PAH Delineation Sample (LSB-37)/Base Documentation Sample		Perimeter Documentation Sample
					Location	PE-22	PE-23	PE-24	PE-25	PE-26	PE-27	PE-28	PE-29	PE-29	PE-30
					Sample Name	218_PE-22_20211119	220_PE-23_20211124	221_PE-24_20211124	223_PE-25_20211129	224_PE-26_20211129	225_PE-27_20211129	226_PE-28_20211129	227_PE-29_20211129	228_DUP-2	229_PE-30_20211129
					Sample Date	11/19/2021	11/24/2021	11/24/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021
					Sample Depth	9-9.5	9-9.5	7-7.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides															
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	<0.0371 U	<0.00348 U	<0.00358 U	NA	NA	NA	NA	<0.00364 U	<0.00347 U	<0.00334 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	<0.00825 U	<0.000772 U	<0.000795 U	NA	NA	NA	NA	<0.000809 U	<0.000772 U	<0.000741 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	<0.0248 U	<0.00232 U	<0.00238 U	NA	NA	NA	NA	<0.00242 U	<0.00232 U	<0.00222 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.165 U	<0.0154 U	<0.0159 U	NA	NA	NA	NA	<0.0162 U	<0.0154 U	<0.0148 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	<0.0124 U	<0.00116 U	<0.00119 U	NA	NA	NA	NA	<0.00121 U	<0.00116 U	<0.00111 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	<0.00825 U	<0.000772 U	<0.000795 U	NA	NA	NA	NA	<0.000809 U	<0.000772 U	<0.000741 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	<0.00825 U	<0.000772 U	<0.000795 U	NA	NA	NA	NA	<0.000809 U	<0.000772 U	<0.000741 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.0248 U	<0.00232 U	<0.00238 U	NA	NA	NA	NA	<0.00242 U	<0.00232 U	<0.00222 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.0198 U	<0.00185 U	<0.00191 U	NA	NA	NA	NA	<0.00194 U	<0.00185 U	<0.00178 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	<0.00825 U	<0.000772 U	<0.000795 U	NA	NA	NA	NA	<0.000809 U	<0.000772 U	<0.000741 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	<0.0248 U	<0.00232 U	<0.00238 U	NA	NA	NA	NA	<0.00242 U	<0.00232 U	<0.00222 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	<0.0099 U	<0.000927 U	<0.000954 U	NA	NA	NA	NA	<0.00097 U	<0.000926 U	<0.00089 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.0371 U	<0.00348 U	<0.00358 U	NA	NA	NA	NA	<0.00364 U	<0.00347 U	<0.00334 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.0371 U	<0.00348 U	<0.00358 U	NA	NA	NA	NA	<0.00364 U	<0.00347 U	<0.00334 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.371 U	<0.0348 U	<0.0358 U	NA	NA	NA	NA	<0.0364 U	<0.0347 U	<0.0334 U
Herbicides															
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.206 U	<0.197 U	<0.207 U	NA	NA	NA	NA	<0.201 U	<0.193 U	<0.187 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.206 U	<0.197 U	<0.207 U	NA	NA	NA	NA	<0.201 U	<0.193 U	<0.187 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	<0.206 U	<0.197 U	<0.207 U	NA	NA	NA	NA	<0.201 U	<0.193 U	<0.187 U
Polychlorinated Biphenyl															
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	<0.0401 U	<0.0377 U	<0.0404 U	NA	NA	NA	NA	<0.0385 U	<0.039 U	<0.0373 U
Metals															
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,180	5,210	5,060	NA	NA	NA	NA	9,110	8,810	7,030
Antimony	7440-36-0	NS	NS	NS	mg/kg	0.794 J	2.13 J	0.778 J	NA	NA	NA	NA	<4.8 U	<4.52 U	<4.45 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	5.65	6.38	6.3	NA	NA	NA	NA	1.13	1.01	2.31
Barium	7440-39-3	**350**	820	400	mg/kg	114	127	138	NA	NA	NA	NA	94.9	88.8	95
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.296 J	0.25 J	0.506	NA	NA	NA	NA	0.326 J	0.307 J	0.276 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.689 J	1.69	0.506 J	NA	NA	NA	NA	0.499 J	0.534 J	0.499 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	8,970	9,620	9,870	NA	NA	NA	NA	2,560	4,000	8,600
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<0.936 U	<0.952 U	<1 U	NA	NA	NA	NA	<0.935 U	<0.939 U	<0.916 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	12.4	14.5	10.3	NA	NA	NA	NA	19.3	18.7	15.2
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	12	14	10	NA	NA	NA	NA	19	19	15
Cobalt	7440-48-4	NS	NS	NS	mg/kg	6.4	11.8	7.32	NA	NA	NA	NA	8.63	9.57	7.26
Copper	7440-50-8	**50**	1720	270	mg/kg	39.8	**50.6**	34.6	NA	NA	NA	NA	25.1	25.1	31.8
Cyanide	57-12-5	27	40	27	mg/kg	<1.2 UJ	<1.1 UJ	0.29 J	NA	NA	NA	NA	<1.2 U	<1.1 UJ	<1.1 UJ
Iron	7439-89-6	NS	NS	NS	mg/kg	14,300	40,300	10,800	NA	NA	NA	NA	15,300	16,100	13,500
Lead	7439-92-1	**63**	450	1000	mg/kg	**244**	**423**	**191**	NA	NA	NA	NA	41.6 J	22.6 J	**182**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	2,460	1,870	2,030	NA	NA	NA	NA	3,280	4,110	2,560
Manganese	7439-96-5	1600	2000	10000	mg/kg	221	376	390	NA	NA	NA	NA	181	223	268
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**0.235**	**0.636**	**0.227**	NA	NA	NA	NA	**0.217**	0.098	**0.573**
Nickel	7440-02-0	**30**	130	310	mg/kg	13.1	24.5	14.6	NA	NA	NA	NA	17.5	17.8	14.8
Potassium	7440-09-7	NS	NS	NS	mg/kg	1,140	1,150	1,030	NA	NA	NA	NA	2,380	2,500	1,910
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	0.985 J	2.31	1.24 J	NA	NA	NA	NA	0.432 J	0.407 J	0.606 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<0.956 U	<0.926 U	<0.972 U	NA	NA	NA	NA	<0.96 U	<0.904 U	<0.891 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	266	<185 U	241	NA	NA	NA	NA	<192 U	<181 U	<178 U
Thallium	7440-28-0	NS	NS	NS	mg/kg	<1.91 U	<1.85 U	<1.94 U	NA	NA	NA	NA	<1.92 U	<1.81 U	<1.78 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	19.7	24.6	22	NA	NA	NA	NA	26.2	26.8	20
Zinc	7440-66-6	**109**	2480	10000	mg/kg	**191**	**186**	**129**	NA	NA	NA	NA	46.3	41.1	**111**
General Chemistry															
Total Solids	TSOLID	NS	NS	NS	Percent	80.3	84	79.9	77.1	79.8	84.8	81.8	81.2	85.2	87.3

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample	PAH Delineation Sample (LSB-37)				PAH Delineation Sample (LSB-37)/Base Documentation Sample		Perimeter Documentation Sample
					Location	PE-22	PE-23	PE-24	PE-25	PE-26	PE-27	PE-28	PE-29	PE-29	PE-30
					Sample Name	218_PE-22_20211119	220_PE-23_20211124	221_PE-24_20211124	223_PE-25_20211129	224_PE-26_20211129	225_PE-27_20211129	226_PE-28_20211129	227_PE-29_20211129	228_DUP-2	229_PE-30_20211129
					Sample Date	11/19/2021	11/24/2021	11/24/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021	11/29/2021
					Sample Depth	9-9.5	9-9.5	7-7.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids															
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000286 U	<0.000276 U	<0.000304 U	NA	NA	NA	NA	<0.00027 U	<0.00026 U	<0.000274 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000286 U	<0.000276 U	<0.000304 U	NA	NA	NA	NA	<0.00027 U	<0.00026 U	<0.000274 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000286 U	<0.000276 U	0.000066 J	NA	NA	NA	NA	<0.00027 U	<0.00026 U	<0.000274 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000286 U	<0.000276 U	<0.000304 U	NA	NA	NA	NA	<0.00027 U	<0.00026 U	<0.000274 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000286 U	0.000149 J	<0.000304 U	NA	NA	NA	NA	<0.00027 U	<0.00026 U	<0.000274 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	<0.000286 U	**0.000918**	<0.000304 U	NA	NA	NA	NA	<0.00027 U	<0.00026 U	0.000432
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	0.000068 J	0.000127 J	<0.000304 U	NA	NA	NA	NA	<0.00027 U	<0.00026 U	0.000055 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	0.000067 J	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000571 U	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	<0.000571 UJ	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	<0.000571 UJ	<0.000551 U	<0.000609 U	NA	NA	NA	NA	<0.00054 U	<0.00052 U	<0.000548 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.000068 J	0.00105 J	<0.000304 U	NA	NA	NA	NA	<0.00027 U	<0.00026 U	0.000487 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Metal Delineation Samples (LSB-39)				Metal Delineation Samples (LSB-39)/Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample		Perimeter Documentation Sample	Base Documentation Sample	
					Location	PE-31	PE-32	PE-33	PE-34	PE-35	PE-36	PE-37	PE-38	PE-39	PE-40	PE-41
					Sample Name	232_PE-31_20211201	233_PE-32_20211201	234_PE-33_20211201	235_PE-34_20211201	231_PE-35_20211201	236_PE-36_20211201	237_PE-37_20211201	238_PE-38_20211201	240_PE-39_20211207	241_PE-40_20211207	242_PE-41_20211207
					Sample Date	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/07/2021	12/07/2021	12/07/2021
					Sample Depth	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5	8-8.5	8-8.5	8-8.5	10-10.5	9-9.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.0037 J	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	NA	NA	NA	NA	0.0017 J	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0065 U	<0.0032 U	<0.0028 U	<0.0036 U	<0.0029 U	<0.0036 U	<0.0031 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	NA	NA	NA	NA	0.00052 J	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	0.00023 J	<0.0019 U	<0.0024 U	<0.0021 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	<0.17 U	<0.085 U	<0.075 U	<0.096 U	<0.078 U	<0.095 U	<0.083 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.022 U	<0.01 U	<0.0093 U	<0.012 U	<0.0097 U	<0.012 U	<0.01 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.0014 J	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	NA	NA	NA	NA	**0.13 J**	<0.01 UJ	<0.0093 UJ	0.011 J	<0.0097 U	0.019 J	<0.01 U
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0087 U	<0.0042 U	<0.0037 U	<0.0048 U	<0.0039 U	<0.0048 U	<0.0041 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0087 U	<0.0042 U	<0.0037 U	<0.0048 U	<0.0039 U	<0.0048 U	<0.0041 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.022 U	<0.01 U	<0.0093 U	<0.012 U	<0.0097 U	<0.012 U	<0.01 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	NA	NA	NA	NA	<0.0032 U	<0.0016 U	<0.0014 U	<0.0018 U	<0.0014 U	<0.0018 U	<0.0016 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0087 UJ	<0.0042 UJ	<0.0037 UJ	<0.0048 UJ	<0.0039 U	<0.0048 U	<0.0041 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
Cymene	99-87-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.00054 J	<0.001 U	<0.00093 U	0.00014 J	<0.00097 U	0.00027 J	0.00024 J
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.022 U	<0.01 U	<0.0093 U	<0.012 U	<0.0097 U	<0.012 U	<0.01 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0087 U	<0.0042 U	<0.0037 U	<0.0048 U	<0.0039 U	<0.0048 U	<0.0041 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.001 J	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.0044	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	NA	NA	NA	NA	0.03	<0.01 U	<0.0093 U	<0.012 U	<0.0097 U	<0.012 U	<0.01 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.022 U	<0.01 U	<0.0093 U	<0.012 U	<0.0097 U	<0.012 U	<0.01 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	NA	NA	NA	NA	<0.011 U	<0.0053 U	<0.0047 U	<0.006 U	<0.0048 U	<0.0059 U	<0.0052 U
Naphthalene	91-20-3	12	12	500	mg/kg	NA	NA	NA	NA	0.021	<0.0042 U	<0.0037 U	0.0017 J	<0.0039 U	0.003 J	0.0021 J
n-Butylbenzene	104-51-8	12	12	500	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.00082 J	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	NA	NA	NA	NA	0.0014 J	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Styrene	100-42-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	NA	NA	NA	NA	<0.0043 U	<0.0021 U	<0.0019 U	<0.0024 U	<0.0019 U	<0.0024 U	<0.0021 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	NA	NA	NA	NA	0.0086 J	<0.0021 U	<0.0019 U	0.00047 J	<0.0019 U	<0.0024 U	<0.0021 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	0.00089 J	<0.00097 U	<0.0012 U	0.0026
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	NA	NA	NA	NA	0.0052 J	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	NA	NA	NA	NA	<0.0032 UJ	<0.0016 UJ	<0.0014 UJ	<0.0018 UJ	<0.0014 U	<0.0018 U	<0.0016 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0022 U	<0.001 U	<0.00093 U	<0.0012 U	<0.00097 U	<0.0012 U	<0.001 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.011 U	<0.0053 U	<0.0047 U	<0.006 U	<0.0048 U	<0.0059 U	<0.0052 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	NA	NA	NA	NA	<0.0011 U	<0.00053 U	<0.00047 U	<0.0006 U	<0.00048 U	<0.00059 U	<0.00052 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0087 U	<0.0042 U	<0.0037 U	<0.0048 U	<0.0039 U	<0.0048 U	<0.0041 U
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.022 U	<0.01 U	<0.0093 U	<0.012 U	<0.0097 U	<0.012 U	<0.01 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	NA	NA	NA	NA	<0.0022 UJ	<0.001 UJ	<0.00093 UJ	<0.0012 UJ	<0.00097 U	<0.0012 U	<0.001 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Metal Delineation Samples (LSB-39)				Metal Delineation Samples (LSB-39)/Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample		Perimeter Documentation Sample	Base Documentation Sample	
					Location	PE-31	PE-32	PE-33	PE-34	PE-35	PE-36	PE-37	PE-38	PE-39	PE-40	PE-41
					Sample Name	232_PE-31_20211201	233_PE-32_20211201	234_PE-33_20211201	235_PE-34_20211201	231_PE-35_20211201	236_PE-36_20211201	237_PE-37_20211201	238_PE-38_20211201	240_PE-39_20211207	241_PE-40_20211207	242_PE-41_20211207
					Sample Date	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/07/2021	12/07/2021	12/07/2021
					Sample Depth	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5	8-8.5	8-8.5	8-8.5	10-10.5	9-9.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	<0.47 U	<0.03 U	<0.028 U	<0.03 U	<0.028 U	<0.03 U	<0.029 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<1.9 U	<0.12 U	<0.11 U	<0.12 U	<0.11 U	<0.12 U	<0.12 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.8 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<15 U	<0.97 U	<0.9 U	<0.96 U	<0.91 U	<0.94 U	<0.93 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	20	0.04 J	0.079 J	0.065 J	<0.23 U	0.071 J	0.062 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<6.8 U	<0.43 U	<0.4 U	<0.43 U	<0.41 U	<0.42 U	<0.42 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	**1.4 J**	<0.29 U	<0.27 U	0.084 J	<0.27 U	0.059 J	0.18 J
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<8.1 U	<0.52 U	<0.48 U	<0.52 U	<0.5 U	<0.51 U	<0.5 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 UJ	<0.2 UJ	<0.19 UJ	<0.2 UJ	<0.19 U	<0.2 U	<0.19 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<4.4 U	<0.28 U	<0.26 U	<0.28 U	<0.27 U	<0.28 U	<0.27 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	NA	NA	NA	NA	16	0.11 J	0.15	0.14 J	<0.15 U	0.16	0.12 J
Acenaphthylene	208-96-8	100	107	500	mg/kg	NA	NA	NA	NA	1.4 J	0.056 J	0.16	0.08 J	0.038 J	0.16	0.14 J
Acetophenone	98-86-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	NA	NA	NA	NA	16	0.19	0.45	0.35	0.055 J	0.43	0.35
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	NA	NA	NA	NA	**8.2**	0.53	**1.4**	1	0.23	**1.2**	1
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	NA	NA	NA	NA	**6.7**	0.48	**1.2**	1	0.25	**1.1**	0.96
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	NA	NA	NA	NA	**7.8**	0.61	**1.5**	**1.3**	0.3	**1.4**	**1.1**
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	NA	NA	NA	NA	3.3	0.29	0.82	0.74	0.17	0.8	0.68
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	NA	NA	NA	NA	**2.9**	0.19	0.54	0.38	0.11	0.46	0.41
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	<10 UJ	<0.65 UJ	<0.6 UJ	<0.65 UJ	<0.62 UJ	<0.64 UJ	<0.63 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	2.3 J	<0.46 U	<0.42 U	<0.46 U	<0.43 U	<0.45 U	<0.44 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.4 U	<0.22 U	<0.2 U	<0.22 U	<0.2 U	<0.21 U	<0.21 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.8 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.8 U	<0.24 U	<0.22 U	<0.24 U	<0.23 U	<0.24 U	<0.23 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	29	0.11 J	0.18 J	0.14 J	0.024 J	0.14 J	0.13 J
Chrysene	218-01-9	**1**	1	56	mg/kg	NA	NA	NA	NA	**7.7**	0.51	**1.2**	0.97	0.23	**1.1**	1
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	NA	NA	NA	NA	**0.88 J**	0.069 J	0.19	0.16	0.036 J	0.16	0.14
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	NA	NA	NA	NA	**16**	0.089 J	0.13 J	0.11 J	<0.19 U	0.11 J	0.078 J
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	NA	NA	NA	NA	28	1.3	2.4	2	0.44	2.6	2.1
Fluorene	86-73-7	**30**	386	500	mg/kg	NA	NA	NA	NA	18	0.11 J	0.18 J	0.17 J	<0.19 U	0.17 J	0.14 J
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	NA	NA	NA	NA	<1.9 U	<0.12 U	<0.11 U	<0.12 U	<0.11 U	<0.12 U	<0.12 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<8.9 U	<0.58 U	<0.53 U	<0.57 U	<0.54 U	<0.56 U	<0.56 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.5 U	<0.16 U	<0.15 U	<0.16 U	<0.15 U	<0.16 U	<0.16 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	NA	NA	NA	NA	**3.7**	0.32	**0.9**	**0.78**	0.17	**0.82**	**0.71**
Isophorone	78-59-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.8 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	NA	NA	NA	NA	**78**	0.071 J	0.2	0.29	<0.19 U	0.17 J	0.18 J
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.8 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<2.5 U	<0.16 U	<0.15 U	<0.16 U	<0.15 U	<0.16 U	<0.16 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	NA	NA	NA	NA	<2.5 U	<0.16 U	<0.15 U	<0.16 U	<0.15 U	<0.16 U	<0.16 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	NA	NA	NA	NA	55	1.3	1.7	1.3	0.26	1.8	1.5
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	<3.1 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	NA	NA	NA	NA	22	1.1	2.2	1.8	0.42	2.5	2.1

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Metal Delineation Samples (LSB-39)				Metal Delineation Samples (LSB-39)/Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample		Perimeter Documentation Sample	Base Documentation Sample	
					Location	PE-31	PE-32	PE-33	PE-34	PE-35	PE-36	PE-37	PE-38	PE-39	PE-40	PE-41
					Sample Name	232_PE-31_20211201	233_PE-32_20211201	234_PE-33_20211201	235_PE-34_20211201	231_PE-35_20211201	236_PE-36_20211201	237_PE-37_20211201	238_PE-38_20211201	240_PE-39_20211207	241_PE-40_20211207	242_PE-41_20211207
					Sample Date	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/07/2021	12/07/2021	12/07/2021
					Sample Depth	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5	8-8.5	8-8.5	8-8.5	10-10.5	9-9.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	NA	NA	NA	NA	<0.00298 U	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	NA	NA	NA	NA	<0.00298 U	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	NA	NA	NA	NA	<0.00559 U	<0.00349 U	<0.00334 U	<0.00359 U	<0.00349 U	<0.00343 U	<0.00343 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	NA	NA	NA	NA	<0.00298 U	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	NA	NA	NA	NA	<0.00124 U	<0.000776 U	<0.000743 U	<0.000797 U	<0.000776 U	<0.000763 U	<0.000763 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	NA	NA	NA	NA	<0.00373 U	<0.00233 U	<0.00223 U	<0.00239 U	<0.00233 U	<0.00229 U	<0.00229 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	NA	NA	NA	NA	<0.00298 U	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	NA	NA	NA	NA	<0.00298 UJ	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	NA	NA	NA	NA	<0.00298 U	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0248 U	<0.0155 U	<0.0149 U	<0.0159 U	<0.0155 U	<0.0152 U	<0.0153 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	NA	NA	NA	NA	<0.00298 UJ	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	NA	NA	NA	NA	<0.00186 U	<0.00116 U	<0.00111 U	<0.0012 U	<0.00116 U	<0.00114 U	<0.00114 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	NA	NA	NA	NA	<0.00124 U	<0.000776 U	<0.000743 U	<0.000797 U	<0.000776 U	<0.000763 U	<0.000763 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	NA	NA	NA	NA	<0.00124 U	<0.000776 U	<0.000743 U	<0.000797 U	<0.000776 U	<0.000763 U	<0.000763 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00373 U	<0.00233 U	<0.00223 U	<0.00239 U	<0.00233 U	<0.00229 U	<0.00229 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00298 U	<0.00186 U	<0.00178 U	<0.00191 U	<0.00186 U	<0.00183 U	<0.00183 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	NA	NA	NA	NA	<0.00124 U	<0.000776 U	<0.000743 U	<0.000797 U	<0.000776 U	<0.000763 U	<0.000763 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00373 U	<0.00233 U	<0.00223 U	<0.00239 U	<0.00233 U	<0.00229 U	<0.00229 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	NA	NA	NA	NA	<0.00149 U	<0.000932 U	<0.000892 U	<0.000957 U	<0.000931 U	<0.000915 U	<0.000916 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00559 U	<0.00349 U	<0.00334 U	<0.00359 U	<0.00349 U	<0.00343 U	<0.00343 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.00559 U	<0.00349 U	<0.00334 U	<0.00359 U	<0.00349 U	<0.00343 U	<0.00343 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0559 U	<0.0349 U	<0.0334 U	<0.0359 U	<0.0349 U	<0.0343 U	<0.0343 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.314 U	<0.202 U	<0.186 U	<0.197 U	<0.193 U	<0.196 U	<0.196 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.314 U	<0.202 U	<0.186 U	<0.197 U	<0.193 U	<0.196 U	<0.196 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	NA	NA	NA	NA	<0.314 U	<0.202 U	<0.186 U	<0.197 U	<0.193 U	<0.196 U	<0.196 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	<0.0365 U	<0.0402 U	<0.0377 U	<0.0391 U	<0.0386 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	<0.0365 U	<0.0402 U	<0.0377 U	<0.0391 U	<0.0386 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	<0.0365 U	<0.0402 U	<0.0377 U	<0.0391 U	<0.0386 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	<0.0365 U	<0.0402 U	<0.0377 U	<0.0391 U	<0.0386 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	0.0185 J	<0.0402 U	<0.0377 U	0.0106 J	<0.0386 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	0.0121 J	<0.0402 U	<0.0377 U	0.0124 J	<0.0386 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.0476 J	<0.0385 U	<0.0365 U	<0.0402 U	<0.0377 U	<0.0391 U	<0.0386 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	<0.0365 U	<0.0402 U	<0.0377 U	<0.0391 U	<0.0386 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.0605 U	<0.0385 U	<0.0365 U	<0.0402 U	<0.0377 U	<0.0391 U	<0.0386 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	NA	NA	NA	NA	0.0476 J	<0.0385 U	0.0306 J	<0.0402 U	<0.0377 U	0.023 J	<0.0386 U
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	11,500	13,200	4,230	6,510	4,440 J	9,240	7,020	5,030	7,930	7,810	8,240
Antimony	7440-36-0	NS	NS	NS	mg/kg	0.993 J	1.5 J	0.358 J	0.565 J	10.6 J	0.589 J	0.357 J	0.629 J	<4.44 U	<4.68 U	<4.75 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	**17.9**	10.4	4.6	6.79	**95.7 J**	1.47	1.58	3.36	3.57	6.71	5.36
Barium	7440-39-3	**350**	820	400	mg/kg	84.5	66.3	42.7	99.7	141 J	83.6	112	101	79.3	138	161
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.652 J	0.719 J	0.188 J	0.426 J	0.237 J	0.347 J	0.313 J	0.282 J	0.346 J	0.328 J	0.446 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.741 J	1.23 J	0.499 J	0.458 J	**5.57 J**	0.685 J	0.531 J	0.722 J	0.346 J	0.618 J	0.589 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	6,470	3,570	23,000	8,390	22,000 J	2,840	6,030	53,000	3,410	16,600	16,500
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	NA	NA	NA	NA	<1.52 UJ	<0.985 U	<0.909 U	<0.966 U	<0.937 U	<0.952 U	<0.96 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	27.4	27	9	11.6	24.2 J	23.5	15.7	16.2	19.5	21.2	19.4
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	NA	NA	NA	NA	24	24	16	16	20	21	19
Cobalt	7440-48-4	NS	NS	NS	mg/kg	8.76	10.3	4.04	5.35	25.6 J	9.57	6.59	5.97	7.75	7.94	8.38
Copper	7440-50-8	**50**	1720	270	mg/kg	**58.4**	**84**	27.5	32.8	**6,990 J**	28.1	24.5	**57.8**	24.7	42.7	41.6
Cyanide	57-12-5	27	40	27	mg/kg	NA	NA	NA	NA	<1.8 U	<1.2 U	0.37 J	<1.1 U	<1.1 UJ	<1.1 UJ	<1.1 UJ
Iron	7439-89-6	NS	NS	NS	mg/kg	18,100	23,900	8,540	10,000	99,200 J	16,700	12,100	11,900	15,800	16,400	17,100
Lead	7439-92-1	**63**	450	1000	mg/kg	**251**	**233**	**98**	**114**	**1,840**	60.9	**89.6**	**243**	57.8	**203**	**260**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	5,060	5,760	3,020	2,270	4,980 J	3,620	3,490	3,980	3,620	4,770	6,580
Manganese	7439-96-5	1600	2000	10000	mg/kg	247	338	231	302	1,000 J	274	243	212	307	356	309
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**2.78**	**2.11**	**0.486**	**0.503**	**2.9 J**	**0.194**	**0.468**	**1.07**	**0.436 J**	**1.19**	**1.15**
Nickel	7440-02-0	**30**	130	310	mg/kg	21.7	25.7	18.7	19.5	**106 J**	19.8	14	16.2	17.1	17.5	18.3
Potassium	7440-09-7	NS	NS	NS	mg/kg	2,430	2,800	670	752	897 J	2,640	2,410	1,610	2,240	2,770	2,730
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	1.56 J	1.42 J	0.386 J	0.64 J	3.9 J	0.666 J	0.757 J	2.31	<1.78 U	<1.87 U	0.266 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<1.48 U	1.01 J	<0.941 U	<1.07 U	**11.4 J**	<0.965 U	<0.87 U	<0.938 U	<0.888 U	<0.936 U	<0.95 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	1,070	908	<188 U	<213 U	482	<193 U	<174 U	<188 U	<178 U	<187 U	214
Thallium	7440-28-0	NS	NS	NS	mg/kg	<2.96 U	<2.94 U	<1.88 U	<2.13 U	<2.96 U	<1.93 U	<1.74 U	<1.88 U	<1.78 U	<1.87 U	<1.9 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	31.6	36.6	12.4	13.7	37.6 J	30.6	22.4	17	25.5	27.1	24.4
Zinc	7440-66-6	**109**	2480	10000	mg/kg	96.9	**144**	89	54.8	**1,330 J**	65.6	70.9	**125**	71.3	**232**	**190**
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	53.2	51.4	83.3	72.6	52.5	81.2	88	82.8	85.4	84	83.3

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Metal Delineation Samples (LSB-39)				Metal Delineation Samples (LSB-39)/Base Documentation Sample	Perimeter Documentation Sample	Base Documentation Sample		Perimeter Documentation Sample	Base Documentation Sample	
					Location	PE-31	PE-32	PE-33	PE-34	PE-35	PE-36	PE-37	PE-38	PE-39	PE-40	PE-41
					Sample Name	232_PE-31_20211201	233_PE-32_20211201	234_PE-33_20211201	235_PE-34_20211201	231_PE-35_20211201	236_PE-36_20211201	237_PE-37_20211201	238_PE-38_20211201	240_PE-39_20211207	241_PE-40_20211207	242_PE-41_20211207
					Sample Date	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/01/2021	12/07/2021	12/07/2021	12/07/2021
					Sample Depth	15-15.5	15-15.5	15-15.5	15-15.5	15-15.5	10-10.5	8-8.5	8-8.5	8-8.5	10-10.5	9-9.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 UJ	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000426 U	<0.000293 U	<0.000266 U	<0.000273 U	<0.000266 U	<0.000265 U	<0.000286 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000426 U	<0.000293 U	<0.000266 U	<0.000273 U	<0.000266 U	<0.000265 U	<0.000286 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.000102 J	<0.000293 U	<0.000266 U	<0.000273 U	<0.000266 U	<0.000265 U	<0.000286 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000426 U	<0.000293 U	<0.000266 U	<0.000273 U	<0.000266 U	<0.000265 U	<0.000286 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000426 U	<0.000293 U	<0.000266 U	<0.000273 U	<0.000266 U	<0.000265 U	<0.000286 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	NA	NA	NA	NA	<0.000426 U	0.0005	0.000329	<0.000273 U	0.00075	0.000492	0.000205 J
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	NA	NA	NA	NA	<0.000426 U	<0.000293 U	<0.000266 U	<0.000273 U	0.000047 J	0.000062 J	<0.000286 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	0.000078 J	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000852 U	<0.000586 U	<0.000531 U	<0.000546 U	<0.000532 U	<0.00053 U	<0.000573 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	NA	NA	NA	NA	<0.000426 U	0.0005	0.000329	<0.000273 U	0.000797 J	0.000554 J	0.000205 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample		PAH and Metals Delineation Sample (LSB-36)				PAH and Metals Delineation Sample (LSB-36)/Base Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample
					Location	PE-42	PE-43	PE-44	PE-45	PE-46	PE-47	PE-48	PE-49	PE-50	PE-51	PE-52
					Sample Name	244_PE-42_20211208	246_PE-43_20211210	247_PE-44_20211210	248_PE-45_20211210	249_PE-46_20211210	250_PE-47_20211210	251_PE-48_20211210	252_PE-49_20211210	253_PE-50_20211210	258_PE-51_20211214	259_PE-52_20211214
					Sample Date	12/08/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/14/2021	12/14/2021
					Sample Depth	9-9.5	11.5-12	15-15.5	15-15.5	15-15.5	15-15.5	11.5-12	11.5-12	8-8.5	11.5-12	7-7.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	0.00041 J	<0.002 U	<0.002 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.003 U	<0.0036 U	NA	NA	NA	NA	<0.0037 U	<0.0031 U	<0.0045 U	<0.003 U	<0.003 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.081 U	<0.095 U	NA	NA	NA	NA	<0.098 U	<0.084 U	<0.12 U	<0.081 U	<0.081 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.012 U	<0.01 U	<0.015 U	<0.01 U	<0.01 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	<0.01 U	0.012	NA	NA	NA	NA	0.013	<0.01 U	<0.015 U	0.0078 J	<0.01 U
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.004 UJ	<0.0047 U	NA	NA	NA	NA	<0.0049 U	<0.0042 U	<0.006 U	<0.004 U	<0.004 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.004 U	<0.0047 U	NA	NA	NA	NA	<0.0049 U	<0.0042 U	<0.006 U	<0.004 U	<0.004 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.012 U	<0.01 U	<0.015 U	<0.01 U	<0.01 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	<0.0015 U	<0.0018 U	NA	NA	NA	NA	<0.0018 U	<0.0016 U	<0.0022 U	0.00014 J	0.00016 J
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.004 UJ	<0.0047 U	NA	NA	NA	NA	<0.0049 U	<0.0042 U	<0.006 U	<0.004 U	<0.004 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
Cymene	99-87-6	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.012 U	<0.01 U	<0.015 U	<0.01 U	<0.01 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.004 U	<0.0047 U	NA	NA	NA	NA	<0.0049 U	<0.0042 U	<0.006 U	<0.004 U	<0.004 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.012 U	<0.01 U	<0.015 U	<0.01 U	<0.01 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.012 U	<0.01 U	<0.015 U	<0.01 U	<0.01 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	<0.005 U	<0.0059 U	NA	NA	NA	NA	<0.0061 U	<0.0052 U	<0.0075 U	<0.005 U	<0.005 U
Naphthalene	91-20-3	12	12	500	mg/kg	<0.004 U	<0.0047 U	NA	NA	NA	NA	<0.0049 U	<0.0042 U	<0.006 U	<0.004 U	<0.004 U
n-Butylbenzene	104-51-8	12	12	500	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Styrene	100-42-5	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.002 U	<0.0024 U	NA	NA	NA	NA	<0.0024 U	<0.0021 U	<0.003 U	<0.002 U	<0.002 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	0.014	0.00065 J
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	<0.0015 U	<0.0018 U	NA	NA	NA	NA	<0.0018 U	<0.0016 U	<0.0022 U	<0.0015 U	<0.0015 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	<0.005 U	<0.0059 U	NA	NA	NA	NA	<0.0061 U	<0.0052 U	<0.0075 U	<0.005 U	<0.005 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	<0.0005 U	<0.00059 U	NA	NA	NA	NA	<0.00061 U	<0.00052 U	<0.00075 U	<0.0005 U	<0.0005 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	<0.004 U	<0.0047 U	NA	NA	NA	NA	<0.0049 U	<0.0042 U	<0.006 U	<0.004 UJ	<0.004 UJ
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	<0.01 U	<0.012 U	NA	NA	NA	NA	<0.012 U	<0.01 U	<0.015 U	<0.01 U	<0.01 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	<0.001 U	<0.0012 U	NA	NA	NA	NA	<0.0012 U	<0.001 U	<0.0015 U	<0.001 U	<0.001 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample		PAH and Metals Delineation Sample (LSB-36)				PAH and Metals Delineation Sample (LSB-36)/Base Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample
					Location	PE-42	PE-43	PE-44	PE-45	PE-46	PE-47	PE-48	PE-49	PE-50	PE-51	PE-52
					Sample Name	244_PE-42_20211208	246_PE-43_20211210	247_PE-44_20211210	248_PE-45_20211210	249_PE-46_20211210	250_PE-47_20211210	251_PE-48_20211210	252_PE-49_20211210	253_PE-50_20211210	258_PE-51_20211214	259_PE-52_20211214
					Sample Date	12/08/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/14/2021	12/14/2021
					Sample Depth	9-9.5	11.5-12	15-15.5	15-15.5	15-15.5	15-15.5	11.5-12	11.5-12	8-8.5	11.5-12	7-7.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.16 U	<0.032 UJ	NA	NA	NA	NA	<0.033 UJ	<0.029 UJ	<0.17 UJ	<0.03 U	<0.31 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.63 U	<0.13 U	NA	NA	NA	NA	<0.13 U	<0.12 U	<0.66 U	<0.12 U	<1.2 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.94 U	<0.19 U	NA	NA	NA	NA	<0.2 U	<0.18 U	<1 U	<0.18 U	<1.8 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<5 U	<1 U	NA	NA	NA	NA	<1 U	<0.94 U	<5.3 U	<0.97 U	<9.8 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<1 U	<0.21 U	<0.21 U	<0.21 U	<4.1 U	<0.19 U	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.25 J	<0.25 U	0.32	0.22 J	1.6 J	0.072 J	0.16 J	0.92	<1.3 U	<0.24 U	<2.5 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<2.3 U	<0.46 U	NA	NA	NA	NA	<0.48 U	<0.42 U	<2.4 U	<0.44 U	<4.4 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	<1.5 U	**1.2**	NA	NA	NA	NA	0.036 J	0.12 J	<1.6 U	<0.29 U	<3 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<2.7 U	<0.55 U	NA	NA	NA	NA	<0.57 U	<0.51 U	<2.9 U	<0.52 U	<5.3 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<1.5 U	<0.3 U	NA	NA	NA	NA	<0.31 U	<0.27 U	<1.6 U	<0.28 U	<2.9 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	0.63 J	0.022 J	0.55	0.48	3.7	0.18	0.23	1.3	0.28 J	<0.16 U	0.22 J
Acenaphthylene	208-96-8	100	107	500	mg/kg	0.39 J	<0.17 U	<0.17 U	0.25	<3.3 U	0.15	0.33	1.8	<0.88 U	<0.16 U	0.49 J
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	1.5	<0.13 U	0.91	0.84	8.5	0.43	0.66	4	<0.66 U	<0.12 U	0.76 J
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	**3.9**	0.11 J	**1.4**	**2.9**	**15**	**1.2**	**1.6**	**12**	**1.1**	0.16	**2.3**
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	**3.6**	<0.17 U	**1.2**	**2.8**	**11**	0.99	**1.4**	**11**	0.93	0.15 J	**2.3**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	**4.4**	0.13	**1.4**	**3.4**	**14**	**1.2**	**1.7**	**14**	1	0.19	**3**
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	2.2	<0.17 U	0.57	1.8	6.2	0.6	0.81	6.4	<0.88 U	0.076 J	1.5 J
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	**1.4**	<0.13 U	0.5	**1.1**	**4**	0.35	0.5	**2.8**	<0.66 U	0.071 J	**0.93 J**
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<3.4 UJ	<0.69 UJ	NA	NA	NA	NA	<0.71 UJ	<0.64 UJ	<3.6 UJ	<0.65 UJ	<6.6 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	<2.4 U	<0.48 U	NA	NA	NA	NA	<0.5 U	0.21 J	<2.5 U	<0.46 U	<4.7 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<1.1 U	<0.23 U	NA	NA	NA	NA	<0.24 U	<0.21 U	<1.2 U	<0.22 U	<2.2 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.94 U	<0.19 U	NA	NA	NA	NA	<0.2 U	<0.18 U	<1 U	<0.18 U	<1.8 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<1.3 U	<0.25 U	NA	NA	NA	NA	<0.26 U	<0.24 U	<1.3 U	<0.24 U	<2.5 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	0.099 J	<1.1 U	<0.2 U	<2 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	0.6 J	0.028 J	NA	NA	NA	NA	0.24	1.3	<1.1 U	<0.2 U	0.33 J
Chrysene	218-01-9	**1**	1	56	mg/kg	**3.8**	0.12 J	**1.4**	**3.1**	**16**	**1.3**	**1.8**	**14**	**1.2**	0.14	**2.8**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	**0.55 J**	<0.13 U	0.17	**0.38**	**1.6 J**	0.14	0.2	**1.5**	0.14 J	0.026 J	0.32 J
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	0.43 J	0.02 J	NA	NA	NA	NA	0.2 J	0.87	<1.1 U	<0.2 U	<2 U
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	8.4	0.25	3.4	6.9	35	2.4	3.7	28	1.7	0.26	5.6
Fluorene	86-73-7	**30**	386	500	mg/kg	0.58 J	0.023 J	0.44	0.42	4.6	0.17 J	0.36	1.5	0.42 J	<0.2 U	0.25 J
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	<0.63 U	<0.13 U	NA	NA	NA	NA	<0.13 U	<0.12 U	<0.66 U	<0.12 U	<1.2 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	<3 U	<0.61 U	NA	NA	NA	NA	<0.63 U	<0.56 U	<3.2 U	<0.58 U	<5.9 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	<0.84 U	<0.17 U	NA	NA	NA	NA	<0.18 U	<0.16 U	<0.88 U	<0.16 U	<1.6 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	**2.3**	<0.17 U	**0.7**	**1.9**	**6.6**	**0.66**	**0.9**	**7.3**	<0.88 U	0.093 J	**1.6**
Isophorone	78-59-1	NS	NS	NS	mg/kg	<0.94 U	<0.19 U	NA	NA	NA	NA	<0.2 U	<0.18 U	<1 U	<0.18 U	<1.8 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	0.4 J	0.061 J	0.5	0.46	1.3 J	0.13 J	0.29	1.4	0.34 J	<0.2 U	0.3 J
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	<0.94 U	<0.19 U	NA	NA	NA	NA	<0.2 U	<0.18 U	<1 U	<0.18 U	<1.8 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	<0.2 U	<1.1 U	<0.2 U	<2 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	<0.84 U	<0.17 U	NA	NA	NA	NA	<0.18 U	<0.16 U	<0.88 U	<0.16 U	<1.6 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	<0.84 U	<0.17 U	NA	NA	NA	NA	<0.18 U	<0.16 U	<0.88 U	<0.16 U	<1.6 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	6.7	0.21	4.3	5.7	41	2.2	3.6	23	1.5	0.092 J	4.2
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	<1 U	<0.21 U	NA	NA	NA	NA	<0.22 U	0.052 J	<1.1 U	<0.2 U	<2 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	7.8	0.22	2.8	7	36	2.6	3.6	29	2	0.24	5.5

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample		PAH and Metals Delineation Sample (LSB-36)				PAH and Metals Delineation Sample (LSB-36)/Base Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample
					Location	PE-42	PE-43	PE-44	PE-45	PE-46	PE-47	PE-48	PE-49	PE-50	PE-51	PE-52
					Sample Name	244_PE-42_20211208	246_PE-43_20211210	247_PE-44_20211210	248_PE-45_20211210	249_PE-46_20211210	250_PE-47_20211210	251_PE-48_20211210	252_PE-49_20211210	253_PE-50_20211210	258_PE-51_20211214	259_PE-52_20211214
					Sample Date	12/08/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/14/2021	12/14/2021
					Sample Depth	9-9.5	11.5-12	15-15.5	15-15.5	15-15.5	15-15.5	11.5-12	11.5-12	8-8.5	11.5-12	7-7.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	0.0012 J
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	0.00279
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	<0.00366 U	<0.00376 U	NA	NA	NA	NA	<0.00383 U	<0.0036 U	<0.0039 U	<0.00364 U	<0.00359 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	<0.00192 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	<0.000814 U	<0.000835 U	NA	NA	NA	NA	<0.000852 U	<0.0008 U	<0.000867 U	<0.000809 U	<0.000798 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	<0.00244 U	<0.00251 U	NA	NA	NA	NA	<0.00256 U	<0.0024 U	<0.0026 U	<0.00242 U	<0.0024 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	<0.00192 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	<0.00192 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	<0.00192 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0163 U	<0.0167 U	NA	NA	NA	NA	<0.017 U	<0.016 U	<0.0173 U	<0.0162 U	<0.016 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	<0.00192 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	<0.00122 U	<0.00125 U	NA	NA	NA	NA	<0.00128 U	<0.0012 U	<0.0013 U	<0.00121 U	<0.0012 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	<0.000814 U	<0.000835 U	NA	NA	NA	NA	<0.000852 U	<0.0008 U	<0.000867 U	<0.000809 U	<0.000798 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	<0.000814 U	<0.000835 U	NA	NA	NA	NA	<0.000852 U	<0.0008 U	<0.000867 U	<0.000809 U	<0.000798 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00244 U	<0.00251 U	NA	NA	NA	NA	<0.00256 U	<0.0024 U	<0.0026 U	<0.00242 U	<0.0024 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00195 U	<0.002 U	NA	NA	NA	NA	<0.00204 U	<0.00192 U	<0.00208 U	<0.00194 U	<0.00192 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	<0.000814 U	<0.000835 U	NA	NA	NA	NA	<0.000852 U	<0.0008 U	<0.000867 U	<0.000809 U	<0.000798 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	<0.00244 U	<0.00251 U	NA	NA	NA	NA	<0.00256 U	<0.0024 U	<0.0026 U	<0.00242 U	<0.0024 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	<0.000977 U	<0.001 U	NA	NA	NA	NA	<0.00102 U	<0.00096 U	<0.00104 U	<0.00097 U	<0.000958 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00366 U	<0.00376 U	NA	NA	NA	NA	<0.00383 U	<0.0036 U	<0.0039 U	<0.00364 U	<0.00359 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00366 U	<0.00376 U	NA	NA	NA	NA	<0.00383 U	<0.0036 U	<0.0039 U	<0.00364 U	<0.00359 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0366 U	<0.0376 U	NA	NA	NA	NA	<0.0383 U	<0.036 U	<0.039 U	<0.0364 U	<0.0359 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.211 U	<0.215 U	NA	NA	NA	NA	<0.22 U	<0.197 U	<0.222 U	<0.2 U	<0.205 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.211 U	<0.215 U	NA	NA	NA	NA	<0.22 U	<0.197 U	<0.222 U	<0.2 U	<0.205 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	<0.211 U	<0.215 U	NA	NA	NA	NA	<0.22 U	<0.197 U	<0.222 U	<0.2 U	<0.205 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	0.0284 J
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	<0.0404 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	<0.0417 U	<0.0412 U	NA	NA	NA	NA	<0.0433 U	<0.0388 U	<0.0429 U	<0.0385 U	0.0284 J
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	6,840	7,440	8,170	7,160	6,500	5,960	8,230	5,560	4,080	5,350	6,270
Antimony	7440-36-0	NS	NS	NS	mg/kg	0.614 J	<5.07 UJ	<5.13 U	<4.88 U	<4.84 U	<4.51 U	<5.18 U	<4.66 U	0.821 J	<4.74 U	<4.79 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	5.26	2.82 J	2.17	3.17	3.11	2.72	2.88	7.98	6.81	1.42	3.8
Barium	7440-39-3	**350**	820	400	mg/kg	120	104 J	102	258	172	139	128	312	99.5	55.6	268
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.312 J	0.244 J	0.257 J	0.283 J	0.232 J	0.226 J	0.259 J	0.242 J	0.295 J	0.199 J	0.259 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.662 J	0.396 J	0.39 J	0.791 J	0.571 J	0.65 J	0.435 J	1.3	0.579 J	0.304 J	0.681 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	7,600	2,000 J	1,610	5,530	11,300	8,080	2,640	18,600	11,500	18,400	13,100
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<1.02 U	<1.05 U	NA	NA	NA	NA	<1.07 U	<0.962 U	<1.08 U	<0.977 U	<0.99 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	19.6	14.7 J	16.3	16.9	16.2	14.2	17.1	30.4	10.2	12.2	20.9
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	20	15	NA	NA	NA	NA	17	30	10	12	21
Cobalt	7440-48-4	NS	NS	NS	mg/kg	7.33	10.9 J	11	8.81	8.21	7.66	10.7	7.52	8.11	5.96	8.13
Copper	7440-50-8	**50**	1720	270	mg/kg	**50.6**	46 J	41.4	45.5	**51**	49.2	41	**80.5**	**72.6**	23.9	49.8
Cyanide	57-12-5	27	40	27	mg/kg	0.28 J	<1.3 UJ	NA	NA	NA	NA	<1.2 UJ	0.56 J	<1.3 UJ	<1.1 U	0.34 J
Iron	7439-89-6	NS	NS	NS	mg/kg	14,000	16,400	15,900	19,900	15,200	14,100	17,900	20,100	13,000	11,200	16,200
Lead	7439-92-1	**63**	450	1000	mg/kg	**392**	**550 J**	**79.3**	**706**	**219**	**201**	**144**	**566**	**209**	**1,610**	**289**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	3,300	3,840 J	4,140	3,650	4,350	3,500	4,250	5,400	5,100	2,340	3,660
Manganese	7439-96-5	1600	2000	10000	mg/kg	248	142 J	122	160	152	134	112	249	138	148	233
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**1.43**	**4.62 J**	**1.35**	**2.72**	**1.72**	**1.14**	**0.789**	**2.21**	**1.62**	0.098	**0.738**
Nickel	7440-02-0	**30**	130	310	mg/kg	18.9	17.9 J	19.9	17.1	17.3	17.7	19.1	21.8	14.7	14	20.8
Potassium	7440-09-7	NS	NS	NS	mg/kg	1,510	4,370	4,920	3,470	3,410	3,160	5,030	2,110	757	1,750	2,360
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	0.506 J	0.426 J	0.503 J	<1.95 U	<1.94 U	<1.8 U	<2.07 U	0.643 J	**5.22**	<1.9 U	<1.92 U
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<0.974 U	<1.01 U	<1.03 U	<0.976 U	<0.968 U	<0.902 U	<1.04 U	0.447 J	0.421 J	<0.949 U	<0.959 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	<195 U	<203 U	388	227	308	261	262	337	224	226	282
Thallium	7440-28-0	NS	NS	NS	mg/kg	<1.95 U	<2.03 UJ	<2.05 U	<1.95 U	<1.94 U	<1.8 U	<2.07 U	<1.86 U	<2.11 U	<1.9 U	<1.92 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	21.6	21.8 J	23.5	24.6	24.7	23.7	26.4	28.7	23.9	20.5	24.8
Zinc	7440-66-6	**109**	2480	10000	mg/kg	**182**	83.6 J	66.2	**790**	**173**	**230**	82.5	**508**	**168**	63	**230**
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	78	76.2	75.8	80	80.2	87.2	75	83.2	73.9	81.9	80.8

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Base Documentation Sample		PAH and Metals Delineation Sample (LSB-36)				PAH and Metals Delineation Sample (LSB-36)/Base Documentation Sample	Base Documentation Sample			Perimeter Documentation Sample
					Location	PE-42	PE-43	PE-44	PE-45	PE-46	PE-47	PE-48	PE-49	PE-50	PE-51	PE-52
					Sample Name	244_PE-42_20211208	246_PE-43_20211210	247_PE-44_20211210	248_PE-45_20211210	249_PE-46_20211210	250_PE-47_20211210	251_PE-48_20211210	252_PE-49_20211210	253_PE-50_20211210	258_PE-51_20211214	259_PE-52_20211214
					Sample Date	12/08/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/14/2021	12/14/2021
					Sample Depth	9-9.5	11.5-12	15-15.5	15-15.5	15-15.5	15-15.5	11.5-12	11.5-12	8-8.5	11.5-12	7-7.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000281 U	<0.000312 U	NA	NA	NA	NA	<0.000304 U	<0.000272 U	<0.000336 U	<0.000266 U	<0.000284 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	0.000026 J	<0.000672 U	<0.000533 U	<0.000569 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000281 U	<0.000312 U	NA	NA	NA	NA	<0.000304 U	<0.000272 U	<0.000336 U	<0.000266 U	<0.000284 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000281 U	<0.000312 U	NA	NA	NA	NA	<0.000304 U	<0.000272 U	<0.000336 U	<0.000266 U	<0.000284 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000281 U	<0.000312 U	NA	NA	NA	NA	<0.000304 U	<0.000272 U	<0.000336 U	<0.000266 U	<0.000284 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000281 U	<0.000312 U	NA	NA	NA	NA	<0.000304 U	<0.000272 U	<0.000336 U	<0.000266 U	<0.000284 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	<0.000281 U	<0.000312 U	NA	NA	NA	NA	0.000182 J	0.000789	<0.000336 U	0.000176 J	0.000527
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	0.000108 J	<0.000312 U	NA	NA	NA	NA	<0.000304 U	0.0002 J	0.000101 J	<0.000266 U	0.000104 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	0.000058 J	<0.000672 U	<0.000533 U	<0.000569 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	0.000068 J	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	mg/kg	<0.000562 U	<0.000625 U	NA	NA	NA	NA	<0.000609 U	<0.000545 U	<0.000672 U	<0.000533 U	<0.000569 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.000108 J	<0.000312 U	NA	NA	NA	NA	0.000182 J	0.000989 J	0.000101 J	0.000176 J	0.000631 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample		Metal Delineation Sample (LSB-40)				Metal Delineation Sample (LSB-40)/Spill No. 1902392 Documentation Sample/Base Documentation Sample		Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample
					Location	PE-53	PE-54	PE-55	PE-56	PE-57	PE-58	PE-59	PE-59	PE-60	PE-61	PE-62
					Sample Name	254_PE-53_20220112	255_PE-54_20220112	264_PE-55_20220112	265_PE-56_20220112	266_PE-57_20220112	267_PE-58_20220112	268_PE-59_20220112	269_DUP-3	271_PE-60_20220113	272_PE-61_20220113	273_PE-62_20220113
					Sample Date	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/13/2022	01/13/2022	01/13/2022
					Sample Depth	9-9.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	10-10.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	0.039 J	0.066 J	0.0028 J	NA	0.011 J
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	0.0017 J	0.0026 J	NA	NA	NA	NA	0.0013 J	0.0018 J	<0.0021 U	<0.0032 U	0.00096 J
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0041 U	<0.0038 U	<0.0032 U	NA	<0.004 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	0.00078 J	0.00078 J	NA	NA	NA	NA	0.00053 J	0.00093 J	<0.0021 U	<0.0032 U	0.00026 J
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	0.0054 J	0.0068 J	0.0008 J	NA	0.0023 J
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	NA	NA	<0.11 U	<0.1 U	<0.085 U	NA	<0.1 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.014 U	<0.012 U	<0.01 U	NA	<0.013 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	0.0011 J	0.0015 J	<0.0021 U	NA	0.0006 J
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	NA	NA	NA	NA	NA	NA	**0.12 J**	**0.13 J**	0.02 J	NA	**0.076 J**
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0054 U	<0.005 U	<0.0042 U	NA	<0.0053 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.00076 U	<0.00062 U	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	<0.00079 U	<0.00066 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0054 U	<0.005 U	<0.0042 U	NA	<0.0053 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 UJ	NA	<0.0026 UJ
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.014 U	<0.012 U	<0.01 U	NA	<0.013 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	NA	NA	NA	NA	NA	NA	<0.002 U	<0.0019 U	<0.0016 U	NA	<0.002 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0054 U	<0.005 U	<0.0042 U	NA	<0.0053 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
Cymene	99-87-6	NS	NS	NS	mg/kg	0.0016 J	0.0027 J	NA	NA	NA	NA	0.00035 J	0.00088 J	0.00031 J	<0.0016 U	0.00047 J
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.014 U	<0.012 U	<0.01 U	NA	<0.013 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	NA	<0.0026 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	0.00096 J	0.0024 J	NA	NA	NA	NA	0.0011 J	0.0013 J	<0.001 U	<0.0016 U	0.00033 J
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0054 U	<0.005 U	<0.0042 U	NA	<0.0053 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	0.0036 J	0.0029 J	NA	NA	NA	NA	0.0016 J	0.0023 J	0.00019 J	<0.0016 U	0.0015 J
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	0.0032 J	0.012 J	NA	NA	NA	NA	0.005 J	0.0056 J	<0.0021 U	<0.0032 U	0.0012 J
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.014 U	<0.012 U	0.003 J	NA	0.0074 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.014 U	<0.012 U	<0.01 U	NA	<0.013 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.0068 U	<0.0063 U	<0.0053 U	NA	<0.0066 U
Naphthalene	91-20-3	12	12	500	mg/kg	0.0053 J	0.004 J	NA	NA	NA	NA	0.0035 J	0.0043 J	0.0022 J	<0.0063 U	0.0026 J
n-Butylbenzene	104-51-8	12	12	500	mg/kg	0.0051 J	0.0058 J	NA	NA	NA	NA	0.0041 J	0.0078 J	<0.001 U	<0.0016 U	0.0023 J
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	0.0016 J	0.0023 J	NA	NA	NA	NA	0.00083 J	0.0015 J	<0.001 U	<0.0016 U	0.0024 J
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	0.0022 J	0.0049 J	NA	NA	NA	NA	0.0021 J	0.0026 J	<0.001 U	<0.0016 U	0.00059 J
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	0.013 J	0.0076 J	NA	NA	NA	NA	0.0057 J	0.0085 J	0.00055 J	<0.0016 U	0.0021 J
Styrene	100-42-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	0.0021 J	0.001 J	NA	NA	NA	NA	0.00071 J	0.0014 J	0.00047 J	<0.0032 U	0.00033 J
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.003 U	<0.0025 U	NA	NA	NA	NA	<0.0027 U	<0.0025 U	<0.0021 U	<0.0032 U	<0.0026 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.0015 U	<0.0012 U	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	<0.0016 U	<0.0013 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	0.0054 J	0.017 J	NA	NA	NA	NA	0.0071 J	0.0082 J	<0.001 U	<0.0016 U	0.0018 J
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.002 U	<0.0019 U	<0.0016 U	NA	<0.002 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0068 U	<0.0063 U	<0.0053 U	NA	<0.0066 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	NA	NA	NA	NA	NA	NA	<0.00068 U	<0.00063 U	<0.00053 U	NA	<0.00066 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0054 U	<0.005 U	<0.0042 UJ	NA	<0.0053 UJ
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.014 U	<0.012 U	<0.01 U	NA	<0.013 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	NA	NA	NA	NA	NA	NA	<0.0014 U	<0.0012 U	<0.001 U	NA	<0.0013 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample		Metal Delineation Sample (LSB-40)				Metal Delineation Sample (LSB-40)/Spill No. 1902392 Documentation Sample/Base Documentation Sample		Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample
					Location	PE-53	PE-54	PE-55	PE-56	PE-57	PE-58	PE-59	PE-59	PE-60	PE-61	PE-62
					Sample Name	254_PE-53_20220112	255_PE-54_20220112	264_PE-55_20220112	265_PE-56_20220112	266_PE-57_20220112	267_PE-58_20220112	268_PE-59_20220112	269_DUP-3	271_PE-60_20220113	272_PE-61_20220113	273_PE-62_20220113
					Sample Date	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/13/2022	01/13/2022	01/13/2022
					Sample Depth	9-9.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	10-10.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	NA	NA	NA	NA	NA	<0.034 U	<0.033 U	<0.032 UJ	NA	<0.033 UJ
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.14 U	<0.13 U	<0.13 U	NA	<0.13 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.21 U	<0.2 U	<0.19 U	NA	<0.2 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<1.1 U	<1.1 U	<1 U	NA	<1.1 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	0.089 J	0.03 J	0.13 J	NA	0.11 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.5 U	<0.48 U	<0.46 U	NA	<0.48 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	0.2 J	0.093 J	0.1 J	NA	0.2 J
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 UJ	NA	<0.22 UJ
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.6 U	<0.57 U	<0.56 U	NA	<0.58 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 UJ	NA	<0.22 UJ
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.32 U	<0.31 U	<0.3 U	NA	<0.31 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	<0.19 U	0.16 J	NA	NA	NA	NA	1.1 J	0.24 J	0.34	3.4	0.18
Acenaphthylene	208-96-8	100	107	500	mg/kg	<0.19 U	<0.17 U	NA	NA	NA	NA	<0.18 U	<0.18 U	<0.17 U	0.68 J	<0.18 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	0.19	0.2	NA	NA	NA	NA	1.9 J	0.22 J	0.59	6.8	0.2
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	0.58	0.64	NA	NA	NA	NA	**4 J**	0.56 J	**1.1**	**12**	0.46
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	0.4	0.58	NA	NA	NA	NA	**3 J**	0.49 J	0.77	**9.4**	0.32
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	0.48	0.67	NA	NA	NA	NA	**4.1 J**	0.54 J	0.88	**12**	0.39
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	0.22	0.35	NA	NA	NA	NA	1.4 J	0.34 J	0.4	4.6	0.18
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	0.17	0.24	NA	NA	NA	NA	**1.3 J**	0.18 J	0.38	**3.6**	0.15
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.74 UJ	<0.72 UJ	<0.69 UJ	NA	<0.72 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	0.03 J	<0.5 U	<0.49 U	NA	<0.5 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.25 U	<0.24 U	<0.23 U	NA	<0.24 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.21 U	<0.2 U	<0.19 U	NA	<0.2 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.28 U	<0.26 U	<0.26 UJ	NA	<0.26 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	0.3	NA	0.47
Carbazole	86-74-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	0.32	<0.22 U	<0.21 U	NA	<0.22 U
Chrysene	218-01-9	**1**	1	56	mg/kg	0.68	0.72	NA	NA	NA	NA	**3.9 J**	0.69 J	**1.2**	**12**	0.52
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	0.065 J	0.076 J	NA	NA	NA	NA	0.32	0.082 J	0.1 J	**1.4**	0.05 J
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	NA	NA	NA	NA	NA	NA	0.32	0.063 J	0.16 J	NA	0.072 J
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	0.85	1.1	NA	NA	NA	NA	7.1 J	0.92 J	2	28	0.74
Fluorene	86-73-7	**30**	386	500	mg/kg	0.2 J	0.18 J	NA	NA	NA	NA	0.97 J	0.24 J	0.33	3.8	0.14 J
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	NA	NA	NA	NA	NA	NA	<0.14 U	<0.13 U	<0.13 U	NA	<0.13 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.66 U	<0.63 U	<0.61 U	NA	<0.63 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.18 U	<0.18 U	<0.17 U	NA	<0.18 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	0.2	0.35	NA	NA	NA	NA	**1.4 J**	0.29 J	0.36	**5.5**	0.16 J
Isophorone	78-59-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.21 U	<0.2 U	<0.19 U	NA	<0.2 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	<0.24 U	0.049 J	NA	NA	NA	NA	0.18 J	0.072 J	0.16 J	1.1	0.18 J
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.21 U	<0.2 U	<0.19 U	NA	<0.2 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.18 U	<0.18 U	<0.17 U	NA	<0.18 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	NA	NA	NA	NA	NA	NA	<0.18 U	<0.18 U	<0.17 U	NA	<0.18 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	0.59	0.77	NA	NA	NA	NA	6.7 J	0.91 J	1.6	29	0.71
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.22 U	<0.21 U	NA	<0.22 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	1.1	1.2	NA	NA	NA	NA	7.2 J	1.1 J	2.2	24	0.9

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample		Metal Delineation Sample (LSB-40)				Metal Delineation Sample (LSB-40)/Spill No. 1902392 Documentation Sample/Base Documentation Sample		Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample
					Location	PE-53	PE-54	PE-55	PE-56	PE-57	PE-58	PE-59	PE-59	PE-60	PE-61	PE-62
					Sample Name	254_PE-53_20220112	255_PE-54_20220112	264_PE-55_20220112	265_PE-56_20220112	266_PE-57_20220112	267_PE-58_20220112	268_PE-59_20220112	269_DUP-3	271_PE-60_20220113	272_PE-61_20220113	273_PE-62_20220113
					Sample Date	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/13/2022	01/13/2022	01/13/2022
					Sample Depth	9-9.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	10-10.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	**0.0109 J**	NA	**0.0166 J**
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	**0.00703 J**	NA	<0.0206 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	NA	NA	NA	NA	NA	NA	<0.0209 U	<0.0194 U	<0.037 U	NA	<0.0386 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	<0.0197 U	NA	<0.0206 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	NA	NA	NA	NA	NA	NA	<0.00464 U	<0.00431 U	<0.00823 U	NA	<0.00859 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	NA	NA	NA	NA	NA	NA	<0.0139 U	<0.0129 U	<0.0247 U	NA	<0.0258 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	<0.0197 U	NA	<0.0206 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	<0.0197 U	NA	<0.0206 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	<0.0197 U	NA	<0.0206 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0928 U	<0.0863 U	<0.164 U	NA	<0.172 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	<0.0197 U	NA	<0.0206 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	NA	NA	NA	NA	NA	NA	<0.00696 U	<0.00647 U	**0.00629 J**	NA	**0.0109 J**
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	NA	NA	NA	NA	NA	NA	<0.00464 U	<0.00431 U	<0.00823 U	NA	<0.00859 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	NA	NA	NA	NA	NA	NA	<0.00464 U	<0.00431 U	<0.00823 U	NA	<0.00859 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0139 U	<0.0129 U	<0.0247 U	NA	<0.0258 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0111 U	<0.0104 U	<0.0197 U	NA	<0.0206 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	NA	NA	NA	NA	NA	NA	<0.00464 U	<0.00431 U	<0.00823 U	NA	<0.00859 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0139 U	<0.0129 U	<0.0247 U	NA	<0.0258 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	NA	NA	NA	NA	NA	NA	<0.00557 U	<0.00518 U	<0.00987 U	NA	<0.0103 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0209 U	<0.0194 U	<0.037 U	NA	<0.0386 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0209 U	<0.0194 U	<0.037 U	NA	<0.0386 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.209 U	<0.194 U	<0.37 U	NA	<0.386 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.221 U	<0.21 U	NA	<0.216 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.221 U	<0.21 U	NA	<0.216 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	NA	NA	NA	NA	NA	NA	<0.23 U	<0.221 U	<0.21 U	NA	<0.216 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	<0.0404 U	NA	<0.0427 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	<0.0404 U	NA	<0.0427 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	<0.0404 U	NA	<0.0427 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	<0.0404 U	NA	<0.0427 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	<0.0404 U	NA	<0.0427 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	0.0397 J	NA	0.0479
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	0.0206 J	NA	0.0189 J
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	<0.0404 U	NA	<0.0427 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	<0.0404 U	NA	<0.0427 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	NA	NA	NA	NA	NA	NA	<0.0466 U	<0.0427 U	0.0603 J	NA	0.0668 J
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	NA	NA	5,810	5,780	4,380	5,310	5,960	4,830	8,500	NA	8,160
Antimony	7440-36-0	NS	NS	NS	mg/kg	NA	NA	<4.9 U	1.14 J	<5.02 U	1.33 J	<5.38 U	0.737 J	0.545 J	NA	0.671 J
Arsenic	7440-38-2	**13**	16	16	mg/kg	NA	NA	9.11	9.74	3.61	10	9.97	6.1	5.13	NA	4.43
Barium	7440-39-3	**350**	820	400	mg/kg	NA	NA	105	116	68.1	129	115	139	60.9	NA	98.6
Beryllium	7440-41-7	7.2	47	590	mg/kg	NA	NA	0.323 J	0.323 J	0.201 J	0.3 J	0.333 J	0.253 J	0.272 J	NA	0.346 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	NA	NA	0.598 J	0.716 J	0.341 J	0.755 J	0.667 J	0.432 J	<0.973 U	NA	<1.02 U
Calcium	7440-70-2	NS	NS	NS	mg/kg	NA	NA	9,380	10,900	4,500	11,000	9,020	6,940	5,900	NA	6,770
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	NA	NA	NA	NA	NA	NA	<1.13 U	<1.08 UJ	<1.02 UJ	NA	<1.07 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	NA	NA	17.8 J	13.9	11.8	14.4	51.1 J	10.7 J	18.4	NA	17
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	NA	NA	NA	NA	NA	NA	**51 J**	11 J	18	NA	17
Cobalt	7440-48-4	NS	NS	NS	mg/kg	NA	NA	7.08	7.35	4.97	6.16	9.11	5.55	9.22 J	NA	6.36
Copper	7440-50-8	**50**	1720	270	mg/kg	NA	NA	49.2 J	**99.6**	43.6	**383**	**69.7 J**	33.3 J	42.9	NA	38.2
Cyanide	57-12-5	27	40	27	mg/kg	NA	NA	NA	NA	NA	NA	<1.3 UJ	<1.2 UJ	<1.3 U	NA	<1.2 U
Iron	7439-89-6	NS	NS	NS	mg/kg	NA	NA	13,400 J	16,700	9,980	13,100	15,800	12,600	16,300	NA	15,200
Lead	7439-92-1	**63**	450	1000	mg/kg	NA	NA	**948 J**	**488**	**87.1**	**273**	**295**	**183**	**87 J**	NA	**196**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	NA	NA	2,770	3,160	2,180	1,960	2,390	1,840	3,440 J	NA	3,030
Manganese	7439-96-5	1600	2000	10000	mg/kg	NA	NA	180	236	141	187	201	182	152 J	NA	192
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	NA	NA	**1.35 J**	**0.642**	**0.562**	**0.213**	**2.63 J**	**0.795 J**	**147 J**	NA	**0.933**
Nickel	7440-02-0	**30**	130	310	mg/kg	NA	NA	15.3	16.1	10.1	14.2	21.2 J	12.1 J	19.3 J	NA	15.4
Potassium	7440-09-7	NS	NS	NS	mg/kg	NA	NA	1,180	1,040	1,500	1,090	1,410	1,020	1,560	NA	1,410
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	NA	NA	3.28	2.07 J	0.813 J	3.64	2.15	1.15 J	1.96	NA	0.498 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	NA	NA	<0.98 U	<1.16 U	<1 U	<1.03 U	<1.08 U	<1.05 U	<0.973 U	NA	<1.02 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	NA	NA	240	248	144 J	272	528	146 J	340	NA	164 J
Thallium	7440-28-0	NS	NS	NS	mg/kg	NA	NA	<1.96 U	<2.31 U	<2.01 U	<2.07 U	<2.15 U	<2.1 U	<1.94 UJ	NA	<2.03 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	NA	NA	23.8	24.5	16.6	21.3	29.1	17.8	29	NA	26.7
Zinc	7440-66-6	**109**	2480	10000	mg/kg	NA	NA	**168 J**	**189**	87.8	**320**	**207**	**148**	**147 J**	NA	**162**
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	66.8	77.2	79.8	66.7	77.7	75.4	70.6	74.1	78	71.8	74.7

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample		Metal Delineation Sample (LSB-40)				Metal Delineation Sample (LSB-40)/Spill No. 1902392 Documentation Sample/Base Documentation Sample		Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample
					Location	PE-53	PE-54	PE-55	PE-56	PE-57	PE-58	PE-59	PE-59	PE-60	PE-61	PE-62
					Sample Name	254_PE-53_20220112	255_PE-54_20220112	264_PE-55_20220112	265_PE-56_20220112	266_PE-57_20220112	267_PE-58_20220112	268_PE-59_20220112	269_DUP-3	271_PE-60_20220113	272_PE-61_20220113	273_PE-62_20220113
					Sample Date	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/13/2022	01/13/2022	01/13/2022
					Sample Depth	9-9.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	10-10.5	8-8.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	0.000184 J
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000335 U	<0.000314 U	<0.000294 U	NA	<0.000317 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000335 U	<0.000314 U	<0.000294 U	NA	<0.000317 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000335 U	<0.000314 U	<0.000294 U	NA	<0.000317 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000335 U	<0.000314 U	<0.000294 U	NA	<0.000317 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000335 U	<0.000314 U	<0.000294 U	NA	<0.000317 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	NA	NA	NA	NA	NA	NA	0.000205 J	0.000206 J	0.000672	NA	**0.00151**
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	NA	NA	NA	NA	NA	NA	<0.000335 U	<0.000314 U	0.000078 J	NA	0.000081 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00067 U	<0.000629 U	<0.000588 U	NA	<0.000634 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	NA	NA	NA	NA	NA	NA	0.000205 J	0.000206 J	0.00075 J	NA	0.00159 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample
					Location	PE-63	PE-64	PE-64	PE-65	PE-66	PE-67	PE-68	PE-69	PE-70	PE-71	PE-72
					Sample Name	275_PE-63_20220114	276_PE-64_20220114	277_DUP-4	280_PE-65_20220118	281_PE-66_20220118	282_PE-67_20220118	283_PE-68_20220118	284_PE-69_20220118	285_PE-70_20220118	286_PE-71_20220118	287_PE-72_20220118
					Sample Date	01/14/2022	01/14/2022	01/14/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022
					Sample Depth	9-9.5	9-9.5	9-9.5	9-9.5	0-1	0-1	0-1	0-1	0-1	0-1	0-1
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	NA	<0.003 U	0.00089 J	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	<0.0034 U	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	NA	<0.0044 U	<0.004 U	<0.0031 U	<0.0037 UJ	<0.0055 U	<0.0056 U	<0.0053 U	<0.004 U	<0.0043 U	<0.0089 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.0034 U	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	<0.12 U	<0.11 U	<0.084 U	<0.1 UJ	<0.15 U	<0.15 U	<0.14 U	<0.11 U	<0.11 U	<0.24 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	NA	<0.015 U	<0.013 U	<0.01 U	<0.012 UJ	<0.018 U	<0.018 U	<0.018 U	<0.013 U	<0.014 U	<0.03 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	NA	0.05	0.042	0.038	<0.012 UJ	<0.018 U	<0.018 U	<0.018 U	<0.013 U	<0.014 U	0.018 J
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	NA	<0.0059 U	<0.0053 U	<0.0042 U	<0.005 UJ	<0.0074 U	<0.0074 U	<0.007 U	<0.0053 U	<0.0057 U	<0.012 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.00086 U	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	NA	<0.0059 U	<0.0053 U	<0.0042 U	<0.005 UJ	<0.0074 U	<0.0074 U	<0.007 U	<0.0053 U	<0.0057 U	<0.012 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	NA	<0.015 U	<0.013 U	<0.01 U	<0.012 UJ	<0.018 U	<0.018 U	<0.018 U	<0.013 U	<0.014 U	<0.03 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	NA	<0.0022 U	<0.002 U	<0.0016 U	<0.0019 UJ	<0.0028 U	<0.0028 U	<0.0026 U	<0.002 U	<0.0021 U	<0.0044 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	NA	<0.0059 U	<0.0053 U	<0.0042 U	<0.005 UJ	<0.0074 U	<0.0074 U	<0.007 U	<0.0053 U	<0.0057 U	<0.012 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
Cymene	99-87-6	NS	NS	NS	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	NA	<0.015 U	<0.013 U	<0.01 U	<0.012 UJ	<0.018 U	<0.018 U	<0.018 U	<0.013 U	<0.014 U	<0.03 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	NA	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	<0.0059 U	<0.0053 U	<0.0042 U	<0.005 UJ	<0.0074 U	<0.0074 U	<0.007 U	<0.0053 U	<0.0057 U	<0.012 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.0034 U	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	NA	0.012 J	0.0099 J	0.0069 J	<0.012 UJ	<0.018 U	<0.018 U	<0.018 U	<0.013 U	<0.014 U	<0.03 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	NA	<0.015 U	<0.013 U	<0.01 U	<0.012 UJ	<0.018 U	<0.018 U	<0.018 U	<0.013 U	<0.014 U	<0.03 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	NA	<0.0074 U	<0.0067 U	<0.0052 U	0.003 J	<0.0092 U	<0.0093 U	<0.0088 U	<0.0066 U	<0.0071 U	<0.015 U
Naphthalene	91-20-3	12	12	500	mg/kg	<0.0069 U	<0.0059 U	<0.0053 U	<0.0042 U	<0.005 UJ	<0.0074 U	<0.0074 U	<0.007 U	<0.0053 U	<0.0057 U	<0.012 U
n-Butylbenzene	104-51-8	12	12	500	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	0.00051 J	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	<0.0017 U	<0.0015 U	0.00026 J	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Styrene	100-42-5	NS	NS	NS	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	<0.0034 U	<0.003 U	<0.0027 U	<0.0021 U	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.0034 U	<0.003 U	0.00045 J	0.00043 J	<0.0025 UJ	<0.0037 U	<0.0037 U	<0.0035 U	<0.0026 U	<0.0028 U	<0.0059 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.0017 U	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	NA	<0.0022 U	<0.002 U	<0.0016 U	<0.0019 UJ	<0.0028 U	<0.0028 U	<0.0026 U	<0.002 U	<0.0021 U	<0.0044 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	NA	<0.0074 U	<0.0067 U	<0.0052 U	<0.0062 UJ	<0.0092 U	<0.0093 U	<0.0088 U	<0.0066 U	<0.0071 U	<0.015 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	NA	<0.00074 U	<0.00067 U	<0.00052 U	<0.00062 UJ	<0.00092 U	<0.00093 U	<0.00088 U	<0.00066 U	<0.00071 U	<0.0015 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	NA	<0.0059 U	<0.0053 U	<0.0042 U	<0.005 UJ	<0.0074 U	<0.0074 U	<0.007 U	<0.0053 U	<0.0057 U	<0.012 U
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	NA	<0.015 U	<0.013 U	<0.01 U	<0.012 UJ	<0.018 U	<0.018 U	<0.018 U	<0.013 U	<0.014 U	<0.03 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	NA	<0.0015 U	<0.0013 U	<0.001 U	<0.0012 UJ	<0.0018 U	<0.0018 U	<0.0018 U	<0.0013 U	<0.0014 U	<0.003 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample
					Location	PE-63	PE-64	PE-64	PE-65	PE-66	PE-67	PE-68	PE-69	PE-70	PE-71	PE-72
					Sample Name	275_PE-63_20220114	276_PE-64_20220114	277_DUP-4	280_PE-65_20220118	281_PE-66_20220118	282_PE-67_20220118	283_PE-68_20220118	284_PE-69_20220118	285_PE-70_20220118	286_PE-71_20220118	287_PE-72_20220118
					Sample Date	01/14/2022	01/14/2022	01/14/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022
					Sample Depth	9-9.5	9-9.5	9-9.5	9-9.5	0-1	0-1	0-1	0-1	0-1	0-1	0-1
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	NA	<0.034 U	<0.033 U	<0.031 U	<0.031 U	<0.036 U	<0.031 U	<0.033 U	<0.03 U	<0.03 U	<0.035 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	NA	<0.14 U	<0.13 U	<0.12 U	<0.12 U	<0.14 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.14 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	NA	<0.2 U	<0.2 U	<0.19 U	<0.18 U	<0.22 U	<0.19 U	<0.2 U	<0.18 U	<0.18 U	<0.21 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	NA	<1.1 U	<1.1 U	<1 U	<0.98 U	<1.1 U	<1 U	<1 U	<0.98 U	<0.96 U	<1.1 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	NA	<0.27 U	<0.27 U	0.058 J	0.078 J	<0.29 U	0.084 J	<0.26 U	0.16 J	0.16 J	0.038 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	NA	<0.49 U	<0.48 U	<0.45 U	<0.44 U	<0.52 U	<0.45 U	<0.48 U	<0.44 U	<0.43 U	<0.51 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	NA	<0.33 U	<0.32 U	0.038 J	0.086 J	<0.34 U	0.046 J	<0.32 U	<0.29 U	0.051 J	<0.34 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	NA	<0.59 U	<0.58 U	<0.54 U	<0.53 U	<0.62 U	<0.54 U	<0.57 U	<0.53 U	<0.52 U	<0.61 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	NA	<0.23 UJ	<0.22 UJ	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	NA	<0.32 U	<0.31 U	<0.29 U	<0.29 U	<0.33 U	<0.29 U	<0.31 U	<0.28 U	<0.28 U	<0.33 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	<0.2 U	<0.18 U	0.053 J	0.13 J	0.12 J	0.033 J	0.12 J	<0.18 U	0.76	0.59	0.069 J
Acenaphthylene	208-96-8	100	107	500	mg/kg	<0.2 U	<0.18 U	<0.18 U	0.09 J	0.3	0.1 J	0.3	0.12 J	0.28	0.59	0.12 J
Acetophenone	98-86-2	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	<0.15 U	<0.14 U	0.069 J	0.39	0.59	0.13 J	0.46	0.12 J	1.5	1.7	0.24
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	0.029 J	0.088 J	0.32	**1.1**	**2**	0.62	**1.3**	0.43	**3**	**4.2**	0.96
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	<0.2 U	0.11 J	0.32	0.92	**2.5**	0.75	**1.7**	0.46	**2.7**	**4**	**1.1**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	<0.15 U	0.13 J	0.37	**1.1**	**3**	0.9	**2**	0.63	**3.4**	**5.1**	**1.4**
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	<0.2 U	0.058 J	0.12 J	0.45	1.7	0.53	1.1	0.36	1.8	2.6	0.86
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	<0.15 U	0.046 J	0.11 J	0.44	**0.82**	0.28	0.52	0.22	**1.3**	**1.6**	0.45
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	NA	<0.74 UJ	<0.72 UJ	<0.68 UJ	<0.66 UJ	<0.77 UJ	<0.68 UJ	<0.72 UJ	<0.66 UJ	<0.65 UJ	<0.76 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	0.66	<0.2 U	<0.24 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	NA	<0.52 U	<0.51 U	<0.48 U	0.028 J	<0.54 U	<0.48 U	<0.5 U	0.059 J	0.055 J	<0.54 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	NA	<0.24 U	<0.24 U	<0.22 U	<0.22 U	<0.26 U	<0.22 U	<0.24 U	<0.22 U	<0.22 U	<0.25 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	NA	<0.2 U	<0.2 U	<0.19 U	<0.18 U	<0.22 U	<0.19 U	<0.2 U	<0.18 U	<0.18 U	<0.21 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	NA	<0.27 U	<0.27 U	<0.25 U	<0.24 U	<0.29 U	<0.25 U	<0.26 U	<0.24 U	<0.24 U	<0.28 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	0.28	0.24	0.26	0.33	1.2	0.16 J	0.24
Carbazole	86-74-8	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	0.064 J	0.058 J	0.039 J	0.15 J	0.041 J	0.5	0.41	0.074 J
Chrysene	218-01-9	**1**	1	56	mg/kg	<0.15 U	0.09 J	0.3	0.99	**1.8**	0.62	**1.6**	0.46	**2.7**	**4.4**	0.97
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	<0.15 U	<0.14 U	0.032 J	0.12	**0.35**	0.1 J	0.25	0.087 J	**0.42**	**0.58**	0.18
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	NA	<0.23 U	<0.22 U	0.068 J	0.12 J	0.023 J	0.096 J	<0.22 U	0.45	0.32	0.058 J
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	0.17 J	<0.2 U	<0.24 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	0.05 J	0.12 J	0.55 J	2.2	3.6	1	2.8	0.78	6.4	9	1.6
Fluorene	86-73-7	**30**	386	500	mg/kg	<0.26 U	<0.23 U	0.041 J	0.15 J	0.21	0.037 J	0.18 J	0.027 J	0.55	0.55	0.058 J
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	NA	<0.14 U	<0.13 U	<0.12 U	<0.12 U	<0.14 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.14 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	NA	<0.65 U	<0.64 U	<0.6 U	<0.58 U	<0.68 U	<0.6 U	<0.63 U	<0.58 U	<0.57 U	<0.68 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	NA	<0.18 U	<0.18 U	<0.17 U	<0.16 U	<0.19 U	<0.17 U	<0.18 U	<0.16 U	<0.16 U	<0.19 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	<0.2 U	0.06 J	0.14 J	**0.55**	**1.8**	**0.58**	**1.2**	0.39	**2**	**2.8**	**0.93**
Isophorone	78-59-1	NS	NS	NS	mg/kg	NA	<0.2 U	<0.2 U	<0.19 U	<0.18 U	<0.22 U	<0.19 U	<0.2 U	<0.18 U	<0.18 U	<0.21 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	<0.26 U	<0.23 U	<0.22 U	0.15 J	0.46	0.074 J	0.17 J	0.035 J	0.22	0.32	0.18 J
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	NA	<0.2 U	<0.2 U	<0.19 U	<0.18 U	<0.22 U	<0.19 U	<0.2 U	<0.18 U	<0.18 U	<0.21 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	<0.2 U	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	NA	<0.18 U	<0.18 U	<0.17 U	<0.16 U	<0.19 U	<0.17 U	<0.18 U	<0.16 U	<0.16 U	<0.19 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	NA	<0.18 U	<0.18 U	<0.17 U	<0.16 U	<0.19 U	<0.17 U	<0.18 U	<0.16 U	<0.16 U	<0.19 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	<0.15 U	0.043 J	0.37 J	1.4	1.7	0.4	1.6	0.35	6.1	6.4	0.83
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	NA	<0.23 U	<0.22 U	<0.21 U	0.047 J	<0.24 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.24 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	0.052 J	0.12 J	0.51 J	1.8	3.2	0.92	2.8	0.67	5.2	8.8	1.5

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample
					Location	PE-63	PE-64	PE-64	PE-65	PE-66	PE-67	PE-68	PE-69	PE-70	PE-71	PE-72
					Sample Name	275_PE-63_20220114	276_PE-64_20220114	277_DUP-4	280_PE-65_20220118	281_PE-66_20220118	282_PE-67_20220118	283_PE-68_20220118	284_PE-69_20220118	285_PE-70_20220118	286_PE-71_20220118	287_PE-72_20220118
					Sample Date	01/14/2022	01/14/2022	01/14/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022
					Sample Depth	9-9.5	9-9.5	9-9.5	9-9.5	0-1	0-1	0-1	0-1	0-1	0-1	0-1
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	<0.00244 U	<0.00231 U	**0.00563 J**	<0.0212 U	<0.00971 U	**0.00478 J**	<0.00228 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	0.00315	**0.00402**	**0.00488 J**	**0.0226 J**	**0.00711 J**	0.0024 J	<0.00228 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	NA	<0.00402 U	<0.00385 U	<0.0038 U	**0.00778 J**	**0.0071 J**	<0.0191 U	**0.0245 J**	**0.00874 J**	<0.0172 UJ	<0.00427 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	<0.00244 U	<0.00231 U	<0.0102 U	<0.0212 U	<0.00971 U	<0.00918 UJ	<0.00228 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	NA	<0.000893 U	<0.000856 U	<0.000844 U	<0.00102 U	<0.000963 U	<0.00424 U	<0.00885 U	<0.00405 U	<0.00383 UJ	<0.000948 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	NA	<0.00268 U	<0.00257 U	<0.00253 U	0.00247 J	0.00553	0.00525 J	0.00743 J	<0.0121 U	<0.0115 UJ	<0.00284 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	<0.00244 U	<0.00231 U	<0.0102 U	<0.0212 U	<0.00971 U	<0.00918 UJ	<0.00228 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	<0.00244 U	<0.00231 U	<0.0102 U	<0.0212 U	<0.00971 U	<0.00918 UJ	<0.00228 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	<0.00244 U	<0.00231 U	<0.0102 U	<0.0212 U	<0.00971 U	<0.00918 UJ	<0.00228 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	NA	<0.0178 U	<0.0171 U	<0.0169 U	<0.0203 U	<0.0192 U	<0.0847 U	<0.177 U	<0.0809 U	<0.0765 UJ	<0.019 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	<0.00244 U	<0.00231 U	<0.0102 U	<0.0212 U	<0.00971 U	<0.00918 UJ	<0.00228 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	NA	<0.00134 U	<0.00128 U	<0.00126 U	0.00149 J	**0.00607**	**0.0113**	**0.0146 J**	**0.00591 J**	<0.00574 UJ	<0.00142 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	NA	<0.000893 U	<0.000856 U	<0.000844 U	<0.00102 U	<0.000963 U	<0.00424 U	<0.00885 U	<0.00405 U	<0.00383 UJ	<0.000948 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	NA	<0.000893 U	<0.000856 U	<0.000844 U	<0.00102 U	<0.000963 U	<0.00424 U	<0.00885 U	<0.00405 U	<0.00383 UJ	<0.000948 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	NA	<0.00268 U	<0.00257 U	<0.00253 U	0.00142 J	0.00531	0.00991 J	<0.0265 U	<0.0121 U	<0.0115 UJ	<0.00284 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	NA	<0.00214 U	<0.00205 U	<0.00202 U	<0.00244 U	<0.00231 U	<0.0102 U	<0.0212 U	<0.00971 U	<0.00918 UJ	<0.00228 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	NA	<0.000893 U	<0.000856 U	<0.000844 U	<0.00102 U	<0.000963 U	<0.00424 U	<0.00885 U	<0.00405 U	<0.00383 UJ	<0.000948 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	NA	<0.00268 U	<0.00257 U	<0.00253 U	0.00205 J	0.00469	0.00546 J	0.00855 J	<0.0121 U	<0.0115 UJ	<0.00284 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	NA	<0.00107 U	<0.00103 U	<0.00101 U	<0.00122 U	<0.00116 U	<0.00508 U	<0.0106 U	<0.00486 U	<0.00459 UJ	<0.00114 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	NA	<0.00402 U	<0.00385 U	<0.0038 U	<0.00457 U	<0.00433 U	<0.0191 U	<0.0398 U	<0.0182 U	<0.0172 UJ	<0.00427 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	NA	<0.00402 U	<0.00385 U	<0.0038 U	<0.00457 U	<0.00433 U	<0.0191 U	<0.0398 U	<0.0182 U	<0.0172 UJ	<0.00427 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	NA	<0.0402 U	<0.0385 U	<0.038 U	<0.0457 U	<0.0433 U	<0.191 U	<0.398 U	<0.182 U	<0.172 UJ	<0.0427 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	NA	<0.226 U	<0.226 U	<0.208 U	<0.207 U	<0.238 U	<0.213 U	<0.219 U	<0.204 U	<0.197 U	<0.232 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	NA	<0.226 U	<0.226 U	<0.208 U	<0.207 U	<0.238 U	<0.213 U	<0.219 U	<0.204 U	<0.197 U	<0.232 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	NA	<0.226 U	<0.226 U	<0.208 U	<0.207 U	<0.238 U	<0.213 U	<0.219 U	<0.204 U	<0.197 U	<0.232 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	<0.0469 U	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	<0.0469 U	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	<0.0469 U	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	<0.0469 U	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	<0.0469 U	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	0.0162 J	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	0.0125 J	0.0402 J	0.0313 J	0.0133 J	<0.0382 U	<0.0464 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	<0.0469 U	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	<0.0469 U	<0.042 U	<0.0447 U	<0.0407 U	<0.0382 U	<0.0464 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	NA	<0.0455 U	<0.133 U	<0.04 U	<0.0404 U	0.0287 J	0.0402 J	0.0313 J	0.0133 J	<0.0382 U	<0.0464 U
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	NA	5,400	6,310	4,880	6,870	6,820	6,550	5,610	5,800	8,140	4,380
Antimony	7440-36-0	NS	NS	NS	mg/kg	NA	0.683 J	0.957 J	<4.85 U	<4.79 U	11.5	<4.83 U	<5.14 U	<4.66 U	<4.68 U	0.614 J
Arsenic	7440-38-2	**13**	16	16	mg/kg	NA	**17.6**	**13.5**	4.37	5.84	5.79	4.81	4.12	6.95	5.44	9.21
Barium	7440-39-3	**350**	820	400	mg/kg	NA	203	186	63.5 J	134	137	93.8	115	109	169	153
Beryllium	7440-41-7	7.2	47	590	mg/kg	NA	0.416 J	0.393 J	0.233 J	0.336 J	0.264 J	0.29 J	0.195 J	0.279 J	0.318 J	0.256 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	NA	0.598 J	0.553 J	0.32 J	0.652 J	0.878 J	0.608 J	0.997 J	1.36	0.805 J	0.703 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	NA	15,900	11,500	15,700	12,200	9,750	5,280	20,700	33,100	6,270	13,100
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	NA	<1.09 UJ	<1.09 U	<1.02 U	<0.999 U	<1.16 U	<1.03 U	<1.08 U	<0.984 U	<0.966 U	<1.15 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	NA	13.4	12.8	10	18.6	16.8	13.7	23.9	29.9	30.5	32.9
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	NA	13	13	10	19	17	14	24	30	30	**33**
Cobalt	7440-48-4	NS	NS	NS	mg/kg	NA	5.73	5.5	4.15	7.17	6.9	6.15	6.67	6.35	10.3	5.62
Copper	7440-50-8	**50**	1720	270	mg/kg	NA	**63.2 J**	**114 J**	29.2	**148**	**87.6**	**84.1**	**56.9**	**99.1**	**66.6**	**101**
Cyanide	57-12-5	27	40	27	mg/kg	NA	<1.3 UJ	<1.3 UJ	0.98 J	<1.2 UJ	<1.7 UJ	1.1 J	0.76 J	<1.2 UJ	0.27 J	0.61 J
Iron	7439-89-6	NS	NS	NS	mg/kg	NA	10,700	10,200	9,280	14,000	16,000	14,700	12,600	16,600	19,500	12,700
Lead	7439-92-1	**63**	450	1000	mg/kg	NA	**1,040 J**	**384 J**	**151 J**	**232**	**512**	**256**	**183**	**249**	**305**	**479**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	NA	1,900	2,600	3,700 J	3,520	2,410	2,150	5,240	4,280	4,120	2,830
Manganese	7439-96-5	1600	2000	10000	mg/kg	NA	171	191	198 J	277	203	178	213	216	260	246
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	NA	**0.915**	**0.811**	**1.48**	**2.22**	**0.943**	**0.924**	**0.918**	**0.786**	**0.738**	**2.3**
Nickel	7440-02-0	**30**	130	310	mg/kg	NA	14.8	14.5	13.6	17.6	16.5	13.8	29.2	28.9	29.7	20.4
Potassium	7440-09-7	NS	NS	NS	mg/kg	NA	774	899	725	1,560	1,290	1,040	1,450	1,700	1,990	1,000
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	NA	3.27	1.63 J	0.465 J	0.585 J	<2.2 U	1.17 J	0.411 J	0.736 J	2.44	0.926 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	NA	0.395 J	<1.06 U	<0.969 U	<0.959 U	0.318 J	0.415 J	<1.03 U	<0.931 U	<0.936 U	0.368 J
Sodium	7440-23-5	NS	NS	NS	mg/kg	NA	465	633	<194 U	<192 U	<220 U	<193 U	<206 U	200	<187 U	267
Thallium	7440-28-0	NS	NS	NS	mg/kg	NA	<2.14 U	<2.12 U	<1.94 UJ	<1.92 U	<2.2 U	<1.93 U	<2.06 U	<1.86 U	<1.87 U	<2.23 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	NA	22.5	22.8	14	30.4	24.9	21.7	32.2	55.3	64.4	19.3
Zinc	7440-66-6	**109**	2480	10000	mg/kg	NA	**282 J**	**135 J**	67.3	**214**	**282**	**190**	**383**	**323**	**248**	**310**
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	63.9	73.1	73.5	78.5	80.1	69	77.9	74	81.3	82.8	69.6

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample			Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample
					Location	PE-63	PE-64	PE-64	PE-65	PE-66	PE-67	PE-68	PE-69	PE-70	PE-71	PE-72
					Sample Name	275_PE-63_20220114	276_PE-64_20220114	277_DUP-4	280_PE-65_20220118	281_PE-66_20220118	282_PE-67_20220118	283_PE-68_20220118	284_PE-69_20220118	285_PE-70_20220118	286_PE-71_20220118	287_PE-72_20220118
					Sample Date	01/14/2022	01/14/2022	01/14/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022
					Sample Depth	9-9.5	9-9.5	9-9.5	9-9.5	0-1	0-1	0-1	0-1	0-1	0-1	0-1
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	<0.000292 U	<0.000341 U	<0.000298 U	<0.000299 U	<0.00028 U	<0.000277 U	<0.00031 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	<0.000292 U	<0.000341 U	<0.000298 U	<0.000299 U	<0.00028 U	<0.000277 U	<0.00031 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	<0.000292 U	<0.000341 U	<0.000298 U	<0.000299 U	<0.00028 U	<0.000277 U	<0.00031 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	<0.000292 U	<0.000341 U	<0.000298 U	<0.000299 U	<0.00028 U	<0.000277 U	<0.00031 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	<0.000292 U	<0.000341 U	<0.000298 U	<0.000299 U	<0.00028 U	<0.000277 U	<0.00031 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	0.000878	**0.00259**	**0.00417**	**0.00131**	**0.00198**	0.000393	<0.00031 U
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	<0.000292 U	0.000089 J	0.000094 J	0.000077 J	0.000111 J	<0.000277 U	<0.00031 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	NA	<0.000638 U	<0.000593 U	<0.000567 U	<0.000583 U	<0.000682 U	<0.000596 U	<0.000598 U	<0.000559 U	<0.000554 U	<0.000619 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	NA	<0.000319 U	<0.000296 U	<0.000284 U	0.000878	0.00268 J	0.00426 J	0.00139 J	0.00209 J	0.000393	<0.00031 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Sample
					Location	PE-73	PE-74	PE-75	PE-76	PE-77	PE-78	PE-79	PE-80	PE-81	PE-82	PE-83
					Sample Name	288_PE-73_20220118	289_PE-74_20220118	290_PE-75_20220118	291_PE-76_20220118	292_PE-77_20220118	294_PE-78_20220119	295_PE-79_20220119	296_PE-80_20220119	297_PE-81_20220119	298_PE-82_20220119	299_PE-83_20220119
					Sample Date	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022
					Sample Depth	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	4-4.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	0.00065 J	<0.0021 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0036 U	<0.0045 U	<0.0043 U	<0.0054 U	<0.0094 U	<0.0043 U	<0.0044 U	<0.004 U	<0.0054 U	NA	<0.0032 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	<0.0026 U	<0.0021 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	0.00037 J	NA	<0.0021 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.097 U	<0.12 U	<0.12 U	<0.14 U	<0.25 U	<0.11 U	<0.12 U	<0.11 U	<0.14 U	NA	<0.086 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.012 U	<0.015 U	<0.014 U	<0.018 U	<0.031 U	<0.014 U	<0.015 U	<0.013 U	<0.018 U	NA	<0.011 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	<0.012 U	<0.015 U	<0.014 U	<0.018 U	<0.031 U	<0.014 U	<0.015 U	<0.013 U	<0.018 U	NA	0.014
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0048 U	<0.006 U	<0.0058 U	<0.0072 U	<0.012 U	<0.0057 U	<0.0059 U	<0.0054 U	<0.0073 U	NA	<0.0043 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	<0.00065 U	<0.00054 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0048 U	<0.006 U	<0.0058 U	<0.0072 U	<0.012 U	<0.0057 U	<0.0059 U	<0.0054 U	<0.0073 U	NA	<0.0043 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 UJ
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.012 U	<0.015 U	<0.014 U	<0.018 U	<0.031 U	<0.014 U	<0.015 U	<0.013 U	<0.018 U	NA	<0.011 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	<0.0018 U	<0.0022 U	<0.0022 U	<0.0027 U	<0.0047 U	<0.0021 U	<0.0022 U	<0.002 U	<0.0027 U	NA	<0.0016 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.0048 U	<0.006 U	<0.0058 U	<0.0072 U	<0.012 U	<0.0057 U	<0.0059 U	<0.0054 U	<0.0073 U	NA	<0.0043 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
Cymene	99-87-6	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	<0.0013 U	<0.0011 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	<0.012 U	<0.015 U	<0.014 U	<0.018 U	<0.031 U	<0.014 U	<0.015 U	<0.013 U	<0.018 U	NA	<0.011 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	NA	<0.0021 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	0.00018 J	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	<0.0013 U	<0.0011 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.0048 U	<0.006 U	<0.0058 U	<0.0072 U	<0.012 U	<0.0057 U	<0.0059 U	<0.0054 U	<0.0073 U	NA	<0.0043 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	0.0032	<0.0011 U
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	<0.0026 U	<0.0021 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	<0.012 U	<0.015 U	<0.014 U	<0.018 U	<0.031 U	<0.014 U	<0.015 U	<0.013 U	<0.018 U	NA	<0.011 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	<0.012 U	<0.015 U	<0.014 U	<0.018 U	<0.031 U	<0.014 U	<0.015 U	<0.013 U	<0.018 U	NA	<0.011 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	<0.006 U	<0.0074 U	<0.0072 U	<0.009 U	<0.016 U	<0.0071 U	<0.0073 U	<0.0067 U	<0.0091 U	NA	<0.0054 U
Naphthalene	91-20-3	12	12	500	mg/kg	<0.0048 U	<0.006 U	<0.0058 U	<0.0072 U	<0.012 U	<0.0057 U	<0.0059 U	<0.0054 U	0.009	0.0011 J	0.0007 J
n-Butylbenzene	104-51-8	12	12	500	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	0.0042	<0.0011 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	0.0045	<0.0011 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	<0.0013 U	<0.0011 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	0.0034	<0.0011 U
Styrene	100-42-5	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	0.00073 J
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	0.00021 J	<0.0021 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.0024 U	<0.003 U	<0.0029 U	<0.0036 U	<0.0062 U	<0.0028 U	<0.0029 U	<0.0027 U	<0.0036 U	<0.0026 U	<0.0021 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	<0.0013 U	<0.0011 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	<0.0013 U	<0.0011 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	<0.0018 U	<0.0022 U	<0.0022 U	<0.0027 U	<0.0047 U	<0.0021 U	<0.0022 U	<0.002 U	<0.0027 U	NA	<0.0016 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	<0.006 U	<0.0074 U	<0.0072 U	<0.009 U	<0.016 U	<0.0071 U	<0.0073 U	<0.0067 U	<0.0091 U	NA	<0.0054 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	<0.0006 U	<0.00074 U	<0.00072 U	<0.0009 U	<0.0016 U	<0.00071 U	<0.00073 U	<0.00067 U	<0.00091 U	NA	<0.00054 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	<0.0048 U	<0.006 U	<0.0058 U	<0.0072 U	<0.012 U	<0.0057 U	<0.0059 U	<0.0054 U	<0.0073 U	NA	<0.0043 UJ
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	<0.012 U	<0.015 U	<0.014 U	<0.018 U	<0.031 U	<0.014 U	<0.015 U	<0.013 U	<0.018 U	NA	<0.011 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	<0.0012 U	<0.0015 U	<0.0014 U	<0.0018 U	<0.0031 U	<0.0014 U	<0.0015 U	<0.0013 U	<0.0018 U	NA	<0.0011 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Sample
					Location	PE-73	PE-74	PE-75	PE-76	PE-77	PE-78	PE-79	PE-80	PE-81	PE-82	PE-83
					Sample Name	288_PE-73_20220118	289_PE-74_20220118	290_PE-75_20220118	291_PE-76_20220118	292_PE-77_20220118	294_PE-78_20220119	295_PE-79_20220119	296_PE-80_20220119	297_PE-81_20220119	298_PE-82_20220119	299_PE-83_20220119
					Sample Date	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022
					Sample Depth	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	4-4.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.034 U	<0.15 U	<0.034 U	<0.042 U	<0.032 U	<0.033 U	<0.031 U	<0.029 U	<0.035 U	NA	<0.03 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.14 U	<0.59 U	<0.14 U	<0.17 U	<0.13 U	<0.13 U	<0.12 U	<0.11 U	<0.14 U	NA	<0.12 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.2 U	<0.89 U	<0.2 U	<0.25 U	<0.19 U	<0.2 U	<0.18 U	<0.17 U	<0.21 U	NA	<0.18 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<1.1 U	<4.7 U	<1.1 U	<1.3 U	<1 U	<1 U	<0.98 U	<0.92 U	<1.1 U	NA	<0.94 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.58	<1.2 U	<0.27 U	0.07 J	0.22 J	<0.26 U	<0.24 U	0.053 J	0.22 J	NA	0.1 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.49 U	<2.1 U	<0.49 U	<0.6 U	<0.45 U	<0.47 U	<0.44 U	<0.41 U	<0.51 U	NA	<0.42 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	0.1 J	<1.4 U	<0.32 U	<0.4 U	0.12 J	<0.31 U	<0.29 U	<0.28 U	<0.34 U	NA	0.045 J
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.59 U	<2.6 U	<0.59 U	<0.72 U	<0.55 U	<0.57 U	<0.53 U	<0.5 U	<0.61 U	NA	<0.51 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.32 U	<1.4 U	<0.32 U	<0.39 U	<0.29 U	<0.3 U	<0.28 U	<0.27 U	<0.33 U	NA	<0.28 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	1.5	<0.79 U	<0.18 U	0.12 J	0.49	<0.17 U	0.043 J	0.057 J	0.67	<0.62 U	0.17
Acenaphthylene	208-96-8	100	107	500	mg/kg	0.056 J	2.4	<0.18 U	0.31	2.3	<0.17 U	0.059 J	0.25	0.13 J	<0.62 U	0.64
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	2.4	2	<0.14 U	0.42	3.2	<0.13 U	0.14	0.39	1.1	<0.46 U	0.66
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	**5.8**	**5.5**	0.037 J	0.85	**7.7**	0.065 J	0.68	**1.7**	**2**	<0.46 U	**2.2**
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	**5.4**	**4.9**	<0.18 U	0.93	**6.6**	0.07 J	0.68	**1.8**	**1.6**	<0.62 U	**2**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	**7.2**	**6.9**	0.047 J	**1.2**	**8.5**	0.1 J	0.85	**2.2**	**2**	<0.46 U	**2.8**
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	3.2	3.5	0.032 J	0.73	4.9	0.059 J	0.48	1.1	0.88	<0.62 U	1.2
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	**2**	**2.4**	<0.14 U	0.36	**3.1**	<0.13 U	0.29	**0.84**	0.8	<0.46 U	0.74
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.73 UJ	<3.2 UJ	<0.73 UJ	<0.9 UJ	<0.68 UJ	<0.7 UJ	<0.66 UJ	<0.62 UJ	<0.76 UJ	NA	<0.64 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	0.19 J	<2.2 U	<0.51 U	<0.63 U	0.062 J	<0.5 U	<0.46 U	<0.44 U	0.055 J	NA	0.032 J
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.24 U	<1.1 U	<0.24 U	<0.3 U	<0.23 U	<0.24 U	<0.22 U	<0.21 U	<0.25 U	NA	<0.21 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.2 U	<0.89 U	<0.2 U	<0.25 U	<0.19 U	<0.2 U	<0.18 U	<0.17 U	<0.21 U	NA	<0.18 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<0.27 U	<1.2 U	<0.27 U	<0.33 U	<0.25 U	<0.26 UJ	<0.24 UJ	<0.23 UJ	<0.28 UJ	NA	<0.24 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	<0.22 U	2	<0.22 U	0.18 J	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	0.12 J
Carbazole	86-74-8	NS	NS	NS	mg/kg	0.89	0.32 J	<0.22 U	0.13 J	1.1	<0.22 U	0.043 J	0.07 J	0.48	NA	0.32
Chrysene	218-01-9	**1**	1	56	mg/kg	**5.6**	**5.3**	0.035 J	0.9	**7.2**	0.064 J	0.7	**1.7**	**1.8**	<0.46 U	**2.3**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	**0.79**	**0.8**	<0.14 U	0.17	**1.2**	<0.13 U	0.11 J	0.29	0.26	<0.46 U	0.28
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	1	0.18 J	<0.22 U	0.098 J	0.66	<0.22 U	0.027 J	0.047 J	0.4	NA	0.16 J
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	12	10	0.044 J	1.7	14	0.094 J	1.2	2.4	3.5	<0.46 U	3.8
Fluorene	86-73-7	**30**	386	500	mg/kg	1.2	0.45 J	<0.22 U	0.18 J	0.91	<0.22 U	0.03 J	0.081 J	0.59	<0.77 U	0.22
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	<0.14 U	<0.59 U	<0.14 U	<0.17 U	<0.13 U	<0.13 U	<0.12 U	<0.11 U	<0.14 U	NA	<0.12 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	<0.65 U	<2.8 U	<0.64 U	<0.79 U	<0.6 U	<0.62 U	<0.58 U	<0.55 U	<0.67 U	NA	<0.56 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	<0.18 U	<0.79 U	<0.18 U	<0.22 U	<0.17 U	<0.17 U	<0.16 U	<0.15 U	<0.19 U	NA	<0.16 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	**3.7**	**3.8**	0.031 J	**0.78**	**5.6**	0.061 J	**0.52**	**1.2**	**1.1**	<0.62 U	**1.4**
Isophorone	78-59-1	NS	NS	NS	mg/kg	<0.2 U	<0.89 U	<0.2 U	<0.25 U	<0.19 U	<0.2 U	<0.18 U	<0.17 U	<0.21 U	NA	<0.18 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	1.2	0.16 J	<0.22 U	0.17 J	0.31	<0.22 U	0.045 J	0.13 J	0.62	<0.77 U	0.21
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	<0.2 U	<0.89 U	<0.2 U	<0.25 U	<0.19 U	<0.2 U	<0.18 U	<0.17 U	<0.21 U	NA	<0.18 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	<0.22 U	<0.99 U	<0.22 U	<0.28 U	<0.21 U	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	<0.18 U	<0.79 U	<0.18 U	<0.22 U	<0.17 U	<0.17 U	<0.16 U	<0.15 U	<0.19 U	NA	<0.16 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	<0.18 U	<0.79 U	<0.18 U	<0.22 U	<0.17 U	<0.17 U	<0.16 U	<0.15 U	<0.19 U	NA	<0.16 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	10	4.6	<0.14 U	1.2	11	0.054 J	0.67	0.92	3.8	<0.46 U	3.1
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	0.046 J	<0.99 U	<0.22 U	<0.28 U	0.06	<0.22 U	<0.2 U	<0.19 U	<0.24 U	NA	<0.2 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	9.8	8.7	0.042 J	1.5	12	0.093 J	1.1	2.4	3	<0.46 U	3.8

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Sample
					Location	PE-73	PE-74	PE-75	PE-76	PE-77	PE-78	PE-79	PE-80	PE-81	PE-82	PE-83
					Sample Name	288_PE-73_20220118	289_PE-74_20220118	290_PE-75_20220118	291_PE-76_20220118	292_PE-77_20220118	294_PE-78_20220119	295_PE-79_20220119	296_PE-80_20220119	297_PE-81_20220119	298_PE-82_20220119	299_PE-83_20220119
					Sample Date	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022
					Sample Depth	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	4-4.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	<0.00222 U	NA	<0.00951 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	**0.00345**	NA	<0.00951 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	<0.00393 U	**0.0116 J**	<0.00391 U	<0.0294 U	**0.0207**	<0.00377 U	<0.00369 U	**0.0208 J**	**0.0161 J**	NA	**0.0353 J**
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	<0.00222 U	NA	<0.00951 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	<0.000873 U	<0.00399 U	<0.000868 U	<0.00652 U	<0.0042 U	<0.000838 U	<0.00082 U	<0.00726 U	<0.000924 U	NA	<0.00396 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	<0.00262 U	<0.012 U	<0.0026 U	<0.0196 U	0.0111 J	<0.00252 U	<0.00246 U	0.0131 J	0.00638 J	NA	<0.0119 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	<0.00222 U	NA	<0.00951 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	<0.00222 U	NA	<0.00951 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	<0.00222 U	NA	<0.00951 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0174 U	<0.0797 U	<0.0174 U	<0.13 U	<0.0841 U	<0.0168 U	<0.0164 U	0.0614 J	0.0697 J	NA	<0.0792 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	<0.00222 U	NA	<0.00951 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	<0.00131 U	<0.00598 U	<0.0013 U	<0.00979 U	<0.00631 U	<0.00126 U	<0.00123 U	<0.0109 U	<0.00139 U	NA	<0.00594 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	<0.000873 U	<0.00399 U	<0.000868 U	<0.00652 U	<0.0042 U	<0.000838 U	<0.00082 U	<0.00726 U	<0.000924 U	NA	<0.00396 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	<0.000873 U	<0.00399 U	<0.000868 U	<0.00652 U	<0.0042 U	<0.000838 U	<0.00082 U	<0.00726 U	<0.000924 U	NA	<0.00396 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00262 U	<0.012 U	<0.0026 U	<0.0196 U	<0.0126 U	<0.00252 U	<0.00246 U	<0.0218 U	<0.00277 U	NA	<0.0119 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00209 U	<0.00957 U	<0.00208 U	<0.0156 U	<0.0101 U	<0.00201 U	<0.00197 U	<0.0174 U	<0.00222 U	NA	<0.00951 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	<0.000873 U	<0.00399 U	<0.000868 U	<0.00652 U	<0.0042 U	<0.000838 U	<0.00082 U	<0.00726 U	<0.000924 U	NA	<0.00396 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	<0.00262 U	0.0033 J	<0.0026 U	<0.0196 U	0.0111 J	<0.00252 U	<0.00246 U	0.0109 J	0.00516	NA	<0.0119 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	<0.00105 U	<0.00478 U	<0.00104 U	<0.00783 U	<0.00505 U	<0.00101 U	<0.000984 U	<0.00871 U	<0.00111 U	NA	<0.00476 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00393 U	<0.0179 U	<0.00391 U	<0.0294 U	<0.0189 U	<0.00377 U	<0.00369 U	<0.0327 U	<0.00416 U	NA	<0.0178 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00393 U	<0.0179 U	<0.00391 U	<0.0294 U	<0.0189 U	<0.00377 U	<0.00369 U	<0.0327 U	<0.00416 U	NA	<0.0178 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0393 U	<0.179 U	<0.0391 U	<0.294 U	<0.189 U	<0.0377 U	<0.0369 U	<0.327 U	<0.0416 U	NA	<0.178 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.225 U	<0.194 U	<0.223 U	<0.215 U	<0.209 U	<0.219 U	<0.209 U	<0.191 U	<0.241 U	NA	<0.201 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.225 U	<0.194 U	<0.223 U	<0.215 U	<0.209 U	<0.219 U	<0.209 U	<0.191 U	<0.241 U	NA	<0.201 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	<0.225 U	<0.194 U	<0.223 U	<0.215 U	<0.209 U	<0.219 U	<0.209 U	<0.191 U	<0.241 U	NA	<0.201 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	<0.0415 U	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	<0.0389 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	<0.0415 U	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	<0.0389 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	<0.0415 U	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	<0.0389 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	<0.0415 U	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	<0.0389 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	<0.0415 U	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	<0.0389 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	0.0569	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	0.0453
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0444 U	0.0143 J	<0.0453 U	0.0178 J	0.0322 J	<0.0439 U	<0.0418 U	0.0128 J	<0.046 U	NA	<0.0389 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	<0.0415 U	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	<0.0389 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0444 U	<0.0383 U	<0.0453 U	<0.0622 U	<0.0415 U	<0.0439 U	<0.0418 U	<0.0381 U	<0.046 U	NA	<0.0389 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	<0.0444 U	0.0143 J	<0.0453 U	0.0178 J	0.0891 J	<0.0439 U	<0.0418 U	0.0128 J	<0.046 U	NA	0.0453
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,640	3,230	8,910	4,850	4,440	6,520	6,500	6,300	6,870	NA	6,480
Antimony	7440-36-0	NS	NS	NS	mg/kg	4.84 J	<4.61 U	<5.41 U	<5.12 U	<4.97 U	1.18 J	<4.94 U	<4.55 U	<5.46 U	NA	0.978 J
Arsenic	7440-38-2	**13**	16	16	mg/kg	10.7	3.52	2.77	5.05	4.49	4.84	2.86	3.87	4.49	NA	7.22
Barium	7440-39-3	**350**	820	400	mg/kg	212	85.7	48.9	113	**372**	84.8	84.6	83.1	115	NA	265
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.447 J	0.129 J	0.324 J	0.256 J	0.149 J	0.326 J	0.257 J	0.246 J	0.361 J	NA	0.252 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.915 J	0.581 J	0.368 J	0.614 J	0.656 J	0.6 J	0.602 J	0.6 J	0.765 J	NA	1.54
Calcium	7440-70-2	NS	NS	NS	mg/kg	12,200	47,900	2,630	50,300	52,800	5,250	6,850	29,500	19,800	NA	55,400 J
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<1.11 U	<0.959 U	<1.1 U	<1.06 U	<1.03 U	<1.06 U	<1.01 U	<0.923 U	<1.16 U	NA	<0.973 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	14.3	65.9	15.4	52.4	49.5	16.5	20.8	50.3	27.2	NA	52.8 J
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	14	**66**	15	**52**	**50**	16	21	**50**	27	NA	**53**
Cobalt	7440-48-4	NS	NS	NS	mg/kg	7.19	4.39	6.72	5.3	4.33	6.89	7.01	7.5	8.08	NA	7.31
Copper	7440-50-8	**50**	1720	270	mg/kg	**213**	**62.5**	15.4	**62.1**	29.5	32.9	26.4	41.7	46.5	NA	**71**
Cyanide	57-12-5	27	40	27	mg/kg	<1.3 UJ	0.3 J	<1.3 UJ	0.28 J	0.72 J	<1.2 UJ	<1.2 UJ	0.37 J	<1.4 UJ	NA	0.44 J
Iron	7439-89-6	NS	NS	NS	mg/kg	16,500	8,800	14,600	11,000	11,000	14,400	13,600	12,000	16,800	NA	27,500 J
Lead	7439-92-1	**63**	450	1000	mg/kg	**868**	**142**	47.4	**199**	**246**	**209**	**70.5**	**105**	**114**	NA	**416**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	1,960	3,320	2,630	23,400	6,660	3,310	4,250	7,550	6,100	NA	10,000
Manganese	7439-96-5	1600	2000	10000	mg/kg	205	140	245	183	354	340	282	202	332	NA	336
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**2.63**	**0.68**	0.111	**0.387**	**0.345**	**0.545**	0.175	0.142	**0.312**	NA	**0.662**
Nickel	7440-02-0	**30**	130	310	mg/kg	18.1	**33.3**	12.8	26.5	27.6	14.6	17.3	27.4	19.9	NA	25.1 J
Potassium	7440-09-7	NS	NS	NS	mg/kg	1,620	783	1,170	1,140	896	1,160	1,600	1,740	2,080	NA	2,070
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	3.07	0.646 J	<2.16 U	0.758 J	0.268 J	<2.1 U	<1.97 U	0.418 J	0.295 J	NA	1.08 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	0.458 J	<0.922 U	<1.08 U	1.05	<0.994 U	<1.05 U	<0.987 U	<0.91 U	<1.09 U	NA	<0.968 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	372	<184 U	<216 U	205	252	<210 U	<197 U	<182 U	<218 U	NA	391
Thallium	7440-28-0	NS	NS	NS	mg/kg	<2.08 U	<1.84 U	<2.16 U	<2.05 U	<1.99 U	<2.1 U	<1.97 U	<1.82 U	<2.18 U	NA	<1.94 UJ
Vanadium	7440-62-2	NS	NS	NS	mg/kg	23.8	38.9	20.8	30.6	30.6	20.1	19.6	21	24.8	NA	28
Zinc	7440-66-6	**109**	2480	10000	mg/kg	**374**	**163**	46.9	**155**	**267**	**111**	87.4	**123**	**110**	NA	**370 J**
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	72.3	83.4	72.8	75.8	77.4	75.4	79.3	86.7	69	62.2	82.2

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample		Base Documentation Sample	Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Sample
					Location	PE-73	PE-74	PE-75	PE-76	PE-77	PE-78	PE-79	PE-80	PE-81	PE-82	PE-83
					Sample Name	288_PE-73_20220118	289_PE-74_20220118	290_PE-75_20220118	291_PE-76_20220118	292_PE-77_20220118	294_PE-78_20220119	295_PE-79_20220119	296_PE-80_20220119	297_PE-81_20220119	298_PE-82_20220119	299_PE-83_20220119
					Sample Date	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/18/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022	01/19/2022
					Sample Depth	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	4-4.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	<0.000632 UJ	<0.000562 U	<0.000626 UJ	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	<0.000632 UJ	<0.000562 U	<0.000626 UJ	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000316 U	<0.000281 U	<0.000313 U	<0.000312 U	<0.000301 U	<0.000294 U	<0.000277 U	<0.000257 U	<0.000316 U	NA	<0.00027 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000316 U	0.000109 J	<0.000313 UJ	<0.000312 U	0.000108 J	<0.000294 U	<0.000277 U	<0.000257 U	<0.000316 U	NA	0.000072 J
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000632 UJ	0.000148 J	<0.000626 UJ	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000316 U	<0.000281 U	<0.000313 U	<0.000312 U	<0.000301 U	<0.000294 U	<0.000277 U	<0.000257 U	<0.000316 U	NA	<0.00027 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000316 U	<0.000281 U	<0.000313 U	<0.000312 U	<0.000301 U	<0.000294 U	<0.000277 U	<0.000257 U	<0.000316 U	NA	<0.00027 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000316 U	<0.000281 U	<0.000313 U	<0.000312 U	<0.000301 U	<0.000294 U	<0.000277 U	<0.000257 U	<0.000316 U	NA	<0.00027 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	<0.000316 U	0.000727	<0.000313 U	<0.000312 U	**0.000973**	<0.000294 U	<0.000277 U	0.000186 J	0.000182 J	NA	0.000492
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	0.000117 J	<0.000281 U	<0.000313 U	<0.000312 U	<0.000301 U	<0.000294 U	<0.000277 U	<0.000257 U	<0.000316 U	NA	<0.00027 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.00258 U	<0.000562 U	<0.000626 UJ	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.00258 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000632 U	0.000139 J	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	0.000062 J	NA	0.000054 J
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 U	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	<0.000632 U	<0.000562 U	<0.000626 U	<0.000624 U	<0.000602 UJ	<0.000588 U	<0.000554 U	<0.000514 U	<0.000633 U	NA	<0.000541 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.000117 J	0.000727	<0.000313 U	<0.000312 U	0.000973	<0.000294 U	<0.000277 U	0.000186 J	0.000182 J	NA	0.000492

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Perimeter Documentation Sample			Base Documentation Sample	Perimeter Documentation Sample					Spill No. 1902392 Documentation Sample/Base Documentation Sample	
					Location	PE-84	PE-85	PE-86	PE-87	PE-88	PE-89	PE-90	PE-91	PE-92	PE-93	PE-94	PE-94
					Sample Name	300_PE-84_20220119	301_PE-85_20220119	302_PE-86_20220119	304_PE-87_20220121	305_PE-88_20220121	306_PE-89_20220121	307_PE-90_20220121	308_PE-91_20220121	309_PE-92_20220121	310_PE-93_20220121	312_PE-94_20220124	313_DUP-5
					Sample Date	01/19/2022	01/19/2022	01/19/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/24/2022	01/24/2022
					Sample Depth	4-4.5	0-1	0-1	6-6.5	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	12-12.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	0.00054 J	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	0.00097 J	0.00039 J
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0035 UJ	<0.0034 UJ	<0.0039 U	<0.0041 U	<0.0044 U	<0.003 U	<0.0034 U	<0.0032 U	<0.0034 U	<0.0036 U	<0.0033 U	<0.0034 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.094 UJ	<0.09 UJ	<0.1 U	<0.11 U	<0.12 U	<0.081 U	<0.092 U	<0.084 U	<0.092 U	<0.096 U	<0.089 U	<0.091 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.012 UJ	<0.011 UJ	<0.013 U	<0.014 U	<0.014 U	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	<0.012 UJ	<0.011 UJ	<0.013 U	0.016	<0.014 U	<0.01 U	0.018	<0.01 U	<0.011 U	0.042	0.021	0.017
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0047 UJ	<0.0045 UJ	<0.0052 U	<0.0055 U	<0.0058 U	<0.004 U	<0.0046 U	<0.0042 U	<0.0046 U	<0.0048 U	<0.0044 U	<0.0045 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0047 UJ	<0.0045 UJ	<0.0052 U	<0.0055 U	<0.0058 U	<0.004 U	<0.0046 U	<0.0042 U	<0.0046 U	<0.0048 U	<0.0044 U	<0.0045 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 UJ	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.012 UJ	<0.011 UJ	<0.013 U	<0.014 U	<0.014 U	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	<0.0018 UJ	<0.0017 UJ	<0.0019 U	<0.0021 U	<0.0022 U	<0.0015 U	<0.0017 U	<0.0016 U	<0.0017 U	<0.0018 U	<0.0017 U	<0.0017 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.0047 UJ	<0.0045 UJ	<0.0052 U	<0.0055 U	<0.0058 U	<0.004 U	<0.0046 U	<0.0042 U	<0.0046 U	<0.0048 U	<0.0044 U	<0.0045 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
Cymene	99-87-6	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	<0.012 UJ	<0.011 UJ	<0.013 U	<0.014 U	<0.014 U	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.0047 UJ	<0.0045 UJ	<0.0052 U	<0.0055 U	<0.0058 U	<0.004 U	<0.0046 U	<0.0042 U	<0.0046 U	<0.0048 U	<0.0044 U	<0.0045 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	0.00041 J	0.00016 J
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	<0.012 UJ	<0.011 UJ	<0.013 U	<0.014 U	<0.014 U	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	<0.012 UJ	<0.011 UJ	<0.013 U	<0.014 U	<0.014 U	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	<0.0059 UJ	<0.0056 UJ	<0.0065 U	<0.0069 U	<0.0072 U	<0.005 U	<0.0057 U	<0.0053 U	<0.0057 U	<0.006 U	<0.0055 U	<0.0057 U
Naphthalene	91-20-3	12	12	500	mg/kg	<0.0047 UJ	<0.0045 UJ	<0.0052 U	<0.0055 U	<0.0058 U	<0.004 U	0.0014 J	<0.0042 U	<0.0046 U	<0.0048 U	<0.0044 U	<0.0045 U
n-Butylbenzene	104-51-8	12	12	500	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	0.00028 J	<0.0011 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	0.00017 J	<0.0011 U
Styrene	100-42-5	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.0024 UJ	<0.0022 UJ	<0.0026 U	<0.0028 U	<0.0029 U	<0.002 U	<0.0023 U	<0.0021 U	<0.0023 U	<0.0024 U	<0.0022 U	<0.0023 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	<0.00059 UJ	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	<0.0018 UJ	<0.0017 UJ	<0.0019 U	<0.0021 U	<0.0022 U	<0.0015 U	<0.0017 U	<0.0016 U	<0.0017 U	<0.0018 U	<0.0017 U	<0.0017 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 U	<0.0014 U	<0.001 U	<0.0011 U	<0.001 U	<0.0011 U	<0.0012 U	<0.0011 U	<0.0011 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	<0.0059 UJ	<0.0056 UJ	<0.0065 U	<0.0069 U	<0.0072 U	<0.005 U	<0.0057 U	<0.0053 U	<0.0057 U	<0.006 U	<0.0055 U	<0.0057 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	0.00021 J	<0.00056 UJ	<0.00065 U	<0.00069 U	<0.00072 U	<0.0005 U	<0.00057 U	<0.00053 U	<0.00057 U	<0.0006 U	<0.00055 U	<0.00057 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	<0.0047 UJ	<0.0045 UJ	<0.0052 UJ	<0.0055 U	<0.0058 U	<0.004 U	<0.0046 U	<0.0042 U	<0.0046 U	<0.0048 U	<0.0044 U	<0.0045 U
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	<0.012 UJ	<0.011 UJ	<0.013 U	<0.014 U	<0.014 U	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	<0.0012 UJ	<0.0011 UJ	<0.0013 U	<0.0014 UJ	<0.0014 UJ	<0.001 UJ	<0.0011 U	<0.001 UJ	<0.0011 UJ	<0.0012 UJ	<0.0011 U	<0.0011 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Perimeter Documentation Sample			Base Documentation Sample	Perimeter Documentation Sample					Spill No. 1902392 Documentation Sample/Base Documentation Sample	
					Location	PE-84	PE-85	PE-86	PE-87	PE-88	PE-89	PE-90	PE-91	PE-92	PE-93	PE-94	PE-94
					Sample Name	300_PE-84_20220119	301_PE-85_20220119	302_PE-86_20220119	304_PE-87_20220121	305_PE-88_20220121	306_PE-89_20220121	307_PE-90_20220121	308_PE-91_20220121	309_PE-92_20220121	310_PE-93_20220121	312_PE-94_20220124	313_DUP-5
					Sample Date	01/19/2022	01/19/2022	01/19/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/24/2022	01/24/2022
					Sample Depth	4-4.5	0-1	0-1	6-6.5	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	12-12.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.03 U	<0.031 U	<0.15 U	<0.029 U	<0.03 U	<0.029 U	<0.03 U	<0.028 U	<0.028 U	<0.03 U	<0.15 U	<0.03 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.12 U	<0.12 U	<0.62 U	<0.11 U	<0.12 U	<0.11 U	<0.12 U	<0.11 U	<0.11 U	<0.12 U	<0.6 U	<0.12 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.18 U	<0.19 U	<0.92 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U	<0.89 U	<0.18 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.95 U	<1 U	<4.9 U	<0.92 U	<0.95 U	<0.92 U	<0.97 U	<0.9 U	<0.89 U	<0.97 U	<4.8 U	<0.95 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.13 J	<0.25 U	0.19 J	<0.23 U	0.35	0.053 J	0.35	0.035 J	<0.22 U	0.038 J	1.2	0.1 J
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.43 U	<0.45 U	<2.2 U	<0.41 U	<0.43 U	<0.41 U	<0.44 U	<0.4 U	<0.4 U	<0.44 U	<2.1 U	<0.43 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	0.042 J	<0.3 U	<1.5 U	<0.28 U	0.032 J	<0.28 U	0.068 J	<0.27 U	<0.27 U	<0.29 U	<1.4 U	<0.28 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 UJ	<0.99 U	<0.2 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.52 U	<0.54 U	<2.7 U	<0.5 U	<0.51 U	<0.5 U	<0.52 U	<0.48 U	<0.48 U	<0.52 U	<2.6 U	<0.51 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.28 U	<0.29 U	<1.4 U	<0.27 U	<0.28 U	<0.27 U	<0.28 U	<0.26 U	<0.26 U	<0.28 U	<1.4 U	<0.28 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	0.24	<0.17 U	0.17 J	<0.15 U	0.53	0.15	0.88	0.16	<0.15 U	0.064 J	2.8 J	0.16 J
Acenaphthylene	208-96-8	100	107	500	mg/kg	0.62	0.052 J	1.9	<0.15 U	0.47	0.14 J	0.66	0.09 J	0.039 J	0.087 J	0.64 J	<0.16 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	0.74	0.051 J	0.9	<0.11 U	1.3	0.36	2	0.34	0.068 J	0.18	3.2 J	0.11 J
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	**2**	0.24	**5**	0.051 J	**2.8**	0.94	**5**	0.81	0.28	0.46	**6 J**	0.11 J
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	**1.8**	0.25	**5.2**	0.047 J	**2.4**	0.89	**4.2**	0.73	0.25	0.43	**5.1 J**	0.09 J
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	**2.5**	0.33	**7.2**	0.059 J	**3.2**	**1.2**	**5.2**	0.92	0.33	0.56	**6.2 J**	0.1 J
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	1.1	0.18	4.1	0.029 J	1.6	0.58	2.5	0.48	0.15	0.28	2.5 J	0.049 J
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	0.74	0.13	**2**	<0.11 U	0.79	0.44	**1.7**	0.32	0.12	0.17	**1.8 J**	0.035 J
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.64 UJ	<0.68 UJ	<3.3 UJ	<0.62 U	<0.64 U	<0.62 U	<0.65 U	<0.6 U	<0.6 U	<0.66 U	<3.2 UJ	<0.64 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	0.071 J	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	0.046 J	<0.48 U	<2.3 U	<0.44 U	0.078 J	<0.44 U	0.1 J	<0.42 U	<0.42 U	<0.46 U	<2.3 U	<0.45 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.21 U	<0.23 U	<1.1 U	<0.21 U	<0.21 U	<0.21 U	<0.22 U	<0.2 U	<0.2 U	<0.22 U	<1.1 U	<0.21 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.18 U	<0.19 U	<0.92 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U	<0.89 U	<0.18 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<0.24 UJ	<0.25 UJ	<1.2 UJ	<0.23 UJ	<0.24 UJ	<0.23 UJ	<0.24 UJ	<0.22 UJ	<0.22 UJ	<0.24 U	<1.2 U	<0.24 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	0.2	0.12 J	<1 U	<0.19 U	<0.2 U	0.078 J	<0.2 U	<0.19 U	<0.19 U	0.088 J	<0.99 U	<0.2 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	0.26	<0.21 U	0.33 J	<0.19 U	0.44	0.15 J	0.78	0.12 J	<0.19 U	0.06 J	0.81 J	<0.2 U
Chrysene	218-01-9	**1**	1	56	mg/kg	**2.3**	0.26	**6**	0.051 J	**3**	0.98	**4.8**	0.76	0.28	0.48	**5.2 J**	0.1 J
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	0.24	0.04 J	**0.81**	<0.11 U	**0.4**	0.16	**0.69**	0.12	0.039 J	0.065 J	**0.71**	<0.12 U
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	0.2	<0.21 U	0.23 J	<0.19 U	0.37	0.091 J	0.61	0.087 J	<0.19 U	0.046 J	2.1	0.16 J
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	0.16 J	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	3.9	0.32	11	0.11	5	1.8	7.4	1.5	0.47	0.95	11 J	0.37 J
Fluorene	86-73-7	**30**	386	500	mg/kg	0.34	<0.21 U	0.32 J	<0.19 U	0.57	0.15 J	0.87	0.16 J	<0.19 U	0.082 J	3.2 J	0.17 J
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	<0.12 U	<0.12 U	<0.62 U	<0.11 U	<0.12 U	<0.11 U	<0.12 U	<0.11 U	<0.11 U	<0.12 U	<0.6 U	<0.12 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	<0.57 U	<0.6 U	<2.9 U	<0.55 U	<0.57 U	<0.55 U	<0.58 U	<0.53 U	<0.53 U	<0.58 U	<2.8 U	<0.56 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	<0.16 U	<0.17 U	<0.82 U	<0.15 U	<0.16 U	<0.15 U	<0.16 U	<0.15 U	<0.15 U	<0.16 U	<0.79 U	<0.16 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	**1.2**	0.16 J	**4.2**	0.03 J	**1.6**	**0.66**	**2.8**	**0.52**	0.16	0.3	**3 J**	0.056 J
Isophorone	78-59-1	NS	NS	NS	mg/kg	<0.18 U	<0.19 U	<0.92 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U	<0.89 U	<0.18 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	0.26	<0.21 U	0.43 J	<0.19 U	0.42	0.12 J	0.61	0.062 J	<0.19 U	0.11 J	2.3 J	0.16 J
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	<0.18 U	<0.19 U	<0.92 U	<0.17 U	<0.18 U	<0.17 U	<0.18 U	<0.17 U	<0.17 U	<0.18 U	<0.89 U	<0.18 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	<0.16 U	<0.17 U	<0.82 U	<0.15 U	<0.16 U	<0.15 U	<0.16 U	<0.15 U	<0.15 U	<0.16 U	<0.79 U	<0.16 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	<0.16 U	<0.17 U	<0.82 U	<0.15 U	<0.16 U	<0.15 U	<0.16 U	<0.15 U	<0.15 U	<0.16 U	<0.79 U	<0.16 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	3.7	0.1 J	5.1	0.079 J	5	1.4	7.5	1.4	0.19	0.66	15 J	0.93 J
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	<0.2 U	<0.21 U	<1 U	<0.19 U	<0.2 U	<0.19 U	<0.2 U	<0.19 U	<0.19 U	<0.2 U	<0.99 U	<0.2 U
Pyrene	129-00-0	**100**	1000	500	mg/kg	4	0.32	11	0.11	5	1.6	7.6	1.4	0.43	0.9	10 J	0.29 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Perimeter Documentation Sample			Base Documentation Sample	Perimeter Documentation Sample					Spill No. 1902392 Documentation Sample/Base Documentation Sample	
					Location	PE-84	PE-85	PE-86	PE-87	PE-88	PE-89	PE-90	PE-91	PE-92	PE-93	PE-94	PE-94
					Sample Name	300_PE-84_20220119	301_PE-85_20220119	302_PE-86_20220119	304_PE-87_20220121	305_PE-88_20220121	306_PE-89_20220121	307_PE-90_20220121	308_PE-91_20220121	309_PE-92_20220121	310_PE-93_20220121	312_PE-94_20220124	313_DUP-5
					Sample Date	01/19/2022	01/19/2022	01/19/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/24/2022	01/24/2022
					Sample Depth	4-4.5	0-1	0-1	6-6.5	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	12-12.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																	
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	<0.000959 U	<0.00099 U	<0.000962 U	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	<0.0019 U	<0.00184 U	<0.00191 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	0.00144	<0.00099 U	0.00118 J	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	**0.00397**	<0.00184 U	<0.00191 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	**0.00625**	<0.00186 U	**0.00516**	<0.00347 U	**0.0503**	<0.0332 U	<0.0346 U	<0.00337 U	<0.0332 U	<0.00356 U	<0.00346 U	<0.00358 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	<0.000959 U	<0.00099 U	<0.000962 U	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	<0.0019 U	<0.00184 U	<0.00191 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	<0.0004 U	<0.000412 U	<0.000401 U	<0.00077 U	<0.00758 U	<0.00738 U	<0.00768 U	<0.000748 U	<0.00737 U	<0.000791 U	<0.000768 U	<0.000795 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	0.000484 J	0.000473 J	0.00145	<0.00231 U	<0.0227 U	<0.0221 U	<0.023 U	<0.00224 U	0.0184 J	0.00199 J	<0.0023 U	<0.00239 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	<0.000959 U	<0.00099 U	<0.000962 U	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	<0.0019 U	<0.00184 U	<0.00191 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	<0.000959 U	<0.00099 U	<0.000962 U	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	<0.0019 U	<0.00184 U	<0.00191 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	<0.000959 U	<0.00099 U	<0.000962 U	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	<0.0019 U	<0.00184 U	<0.00191 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.00799 U	<0.00825 U	0.0256	<0.0154 U	<0.152 U	<0.148 U	<0.154 U	<0.015 U	0.105 J	<0.0158 U	<0.0154 U	<0.0159 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	<0.000959 U	<0.00099 U	<0.000962 U	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	<0.0019 U	<0.00184 U	<0.00191 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	<0.0006 U	<0.000619 U	<0.000601 U	<0.00116 U	<0.0114 U	<0.0111 U	<0.0115 U	<0.00112 U	<0.011 U	<0.00119 U	<0.00115 U	<0.00119 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	<0.0004 U	<0.000412 U	<0.000401 U	<0.00077 U	<0.00758 U	<0.00738 U	<0.00768 U	<0.000748 U	<0.00737 U	<0.000791 U	<0.000768 U	<0.000795 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	<0.0004 U	<0.000412 U	<0.000401 U	<0.00077 U	<0.00758 U	<0.00738 U	<0.00768 U	<0.000748 U	<0.00737 U	<0.000791 U	<0.000768 U	<0.000795 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.0012 U	<0.00124 U	<0.0012 U	<0.00231 U	<0.0227 U	<0.0221 U	<0.023 U	<0.00224 U	<0.0221 U	<0.00237 U	<0.0023 U	<0.00239 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.000959 U	<0.00099 U	<0.000962 U	<0.00185 U	<0.0182 U	<0.0177 U	<0.0184 U	<0.0018 U	<0.0177 U	<0.0019 U	<0.00184 U	<0.00191 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	<0.0004 U	<0.000412 U	<0.000401 U	<0.00077 U	<0.00758 U	<0.00738 U	<0.00768 U	<0.000748 U	<0.00737 U	<0.000791 U	<0.000768 U	<0.000795 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	0.000977 J	0.000898 J	0.00176	<0.00231 U	<0.0227 U	<0.0221 U	<0.023 U	<0.00224 U	0.0154 J	0.00252 J	<0.0023 U	<0.00239 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	<0.00048 U	<0.000495 U	0.000631 J	<0.000924 U	<0.00909 U	<0.00886 U	<0.00922 U	<0.000898 U	<0.00884 U	<0.00095 U	<0.000922 U	<0.000954 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.0018 U	<0.00186 U	<0.0018 U	<0.00347 U	<0.0341 U	<0.0332 U	<0.0346 U	<0.00337 U	<0.0332 U	<0.00356 U	<0.00346 U	<0.00358 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.0018 U	<0.00186 U	<0.0018 U	<0.00347 U	<0.0341 U	<0.0332 U	<0.0346 U	<0.00337 U	<0.0332 U	<0.00356 U	<0.00346 U	<0.00358 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.018 U	<0.0186 U	<0.018 U	<0.0347 U	<0.341 U	<0.332 U	<0.346 U	<0.0337 U	<0.332 U	<0.0356 U	<0.0346 U	<0.0358 U
Herbicides																	
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.198 U	<0.21 U	<0.203 U	<0.192 U	<0.199 U	<0.191 U	<0.201 U	<0.189 U	<0.185 U	<0.201 U	<0.198 U	<0.194 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.198 U	<0.21 U	<0.203 U	<0.192 U	<0.199 U	<0.191 U	<0.201 U	<0.189 U	<0.185 U	<0.201 U	<0.198 U	<0.194 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	<0.198 U	<0.21 U	<0.203 U	<0.192 U	<0.199 U	<0.191 U	<0.201 U	<0.189 U	<0.185 U	<0.201 U	<0.198 U	<0.194 U
Polychlorinated Biphenyl																	
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0399 U	<0.0401 U	<0.0397 U	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	<0.0394 U	<0.0386 U	<0.0376 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0399 U	<0.0401 U	<0.0397 U	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	<0.0394 U	<0.0386 U	<0.0376 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0399 U	<0.0401 U	<0.0397 U	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	<0.0394 U	<0.0386 U	<0.0376 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0399 U	<0.0401 U	<0.0397 U	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	<0.0394 U	<0.0386 U	<0.0376 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	0.0176 J	<0.0401 U	0.0699 J	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	<0.0394 U	<0.0386 U	<0.0376 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0399 U	<0.0401 U	<0.0397 U	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	0.0242 J	<0.0386 U	<0.0376 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0399 U	0.00802 J	0.0125 J	<0.0379 U	0.0225 J	0.0191 J	<0.0401 U	0.0212 J	0.0243 J	0.0131 J	<0.0386 U	<0.0376 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0399 U	<0.0401 U	<0.0397 U	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	<0.0394 U	<0.0386 U	<0.0376 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0399 U	<0.0401 U	<0.0397 U	<0.0379 U	<0.0389 U	<0.0369 U	<0.0401 U	<0.0362 U	<0.0366 U	<0.0394 U	<0.0386 U	<0.0376 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	0.0176 J	0.00802 J	0.0824 J	<0.0379 U	0.0225 J	0.0191 J	<0.0401 U	0.0212 J	0.0243 J	0.0373 J	<0.0386 U	<0.0376 U
Metals																	
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,420	6,520	5,340	6,940	4,610	6,590	6,210	6,650	4,670	5,300	8,110	7,100
Antimony	7440-36-0	NS	NS	NS	mg/kg	0.884 J	<5 U	16.3	<4.46 U	1.17 J	<4.58 U	0.382 J	<4.43 U	<4.43 U	<4.66 U	<4.57 U	<4.55 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	5.63	4.33	4.65	2	5.4	3.62	4.44	4.3	3.27	5.45	1.94	1.74
Barium	7440-39-3	**350**	820	400	mg/kg	156	54.6	248	69.8	182	118	119	101	53.2	77.4	79	63
Beryllium	7440-41-7	7.2	47	590	mg/kg	0.211 J	0.22 J	0.217 J	0.268 J	0.177 J	0.293 J	0.237 J	0.257 J	0.186 J	0.252 J	<0.457 U	<0.455 U
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	1.26	0.52 J	1.24	0.554 J	1.9	0.761 J	0.683 J	1.02	0.469 J	0.485 J	0.292 J	0.273 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	35,400	74,300	28,200	2,580	27,600	21,200	37,100	14,000	63,500	28,300	2,300	1,780
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<0.972 U	<1.02 U	<0.998 U	<0.937 U	<0.962 U	<0.931 U	<0.972 U	<0.91 U	<0.898 U	<0.974 U	<0.968 U	<0.962 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	42.2	14.7	31.9	17.6	180	92.6	48.3	128	276	182	17.1	16.3
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	**42**	15	**32**	18	**180**	**93**	**48**	**130**	**280**	**180**	17	16
Cobalt	7440-48-4	NS	NS	NS	mg/kg	5.87	5.38	7.26	8.66	6.81	8.47	5.67	7.14	5.75	6.28	8.31	7.44
Copper	7440-50-8	**50**	1720	270	mg/kg	**65.5**	33	**57.3**	25.4	**161**	**57.2**	48.1	**157**	**66.4**	**66**	21.5	20.1
Cyanide	57-12-5	27	40	27	mg/kg	0.36 J	<1.2 UJ	0.31 J	<1.2 UJ	0.26 J	0.32 J	<1.1 UJ	<1 UJ	0.25 J	0.3 J	<1.1 UJ	<1.1 UJ
Iron	7439-89-6	NS	NS	NS	mg/kg	23,200	9,800	14,800	15,000	17,900	13,000	12,200	13,300	9,610	10,500	15,900	14,000
Lead	7439-92-1	**63**	450	1000	mg/kg	**317**	**68.5**	**497**	33.3	**408**	**170**	**283**	**142**	**112**	**325**	29.8	31
Magnesium	7439-95-4	NS	NS	NS	mg/kg	6,940	22,000	7,260	3,070	4,310	5,520	5,450	3,440	15,800	3,960	2,960	2,410
Manganese	7439-96-5	1600	2000	10000	mg/kg	283	169	223	184	236	219	215	243	164	217	230	276
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	**0.445**	0.065 J	**0.298**	0.126	**0.7**	**0.244**	**1.18**	**0.297**	0.126	**0.994**	0.149 J	**0.377 J**
Nickel	7440-02-0	**30**	130	310	mg/kg	19.9	13.7	25.5	15.2	**81.7**	**43**	24.4	**57.4**	**104**	**75.8**	14.8	14.7
Potassium	7440-09-7	NS	NS	NS	mg/kg	1,510	1,260	1,440	2,340	1,310	2,390	1,470	1,330	1,040	1,360	2,860	1,860
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	0.788 J	0.68 J	0.336 J	<1.79 U	<1.86 U	<1.83 U	<1.82 U	<1.77 U	<1.77 U	<1.86 U	<1.83 U	<1.82 U
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<0.961 U	<1 U	<0.987 U	<0.893 U	<0.93 U	<0.917 U	<0.91 U	<0.886 U	<0.886 U	<0.933 U	<0.914 U	<0.91 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	496	382	557	<179 U	327	208	185	<177 U	193	<186 U	<183 U	<182 U
Thallium	7440-28-0	NS	NS	NS	mg/kg	<1.92 U	<2 U	<1.97 U	<1.79 U	<1.86 U	<1.83 U	<1.82 U	<1.77 U	<1.77 U	<1.86 U	<1.83 U	<1.82 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	21.2	22.1	20.4	22.6	30	22.1	20	18.1	17.4	15.8	27	23
Zinc	7440-66-6	**109**	2480	10000	mg/kg	**318**	86.3	**382**	42.3	**269**	**175**	**169**	**196**	90.9	**110**	43.4	33.7
General Chemistry																	
Total Solids	TSOLID	NS	NS	NS	Percent	82.3	78.7	80.2	85.4	83.2	85.9	82.3	87.9	89.1	82.1	82.6	83.2

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Perimeter Documentation Sample	Perimeter Documentation Sample			Base Documentation Sample	Perimeter Documentation Sample					Spill No. 1902392 Documentation Sample/Base Documentation Sample	
					Location	PE-84	PE-85	PE-86	PE-87	PE-88	PE-89	PE-90	PE-91	PE-92	PE-93	PE-94	PE-94
					Sample Name	300_PE-84_20220119	301_PE-85_20220119	302_PE-86_20220119	304_PE-87_20220121	305_PE-88_20220121	306_PE-89_20220121	307_PE-90_20220121	308_PE-91_20220121	309_PE-92_20220121	310_PE-93_20220121	312_PE-94_20220124	313_DUP-5
					Sample Date	01/19/2022	01/19/2022	01/19/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/21/2022	01/24/2022	01/24/2022
					Sample Depth	4-4.5	0-1	0-1	6-6.5	0-1	0-1	0-1	0-1	0-1	0-1	12-12.5	12-12.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000269 U	<0.000302 U	<0.000293 U	<0.000277 U	<0.000271 U	<0.000269 U	<0.000265 U	<0.000266 U	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	0.000095 J	0.000085 J	<0.000293 U	<0.000277 U	0.000218 J	<0.000269 U	<0.000265 U	0.000095 J	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000538 U	0.000104 J	<0.000585 U	<0.000555 U	0.000079 J	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000269 U	<0.000302 U	<0.000293 U	<0.000277 U	0.0001 J	<0.000269 U	<0.000265 U	<0.000266 U	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000269 U	<0.000302 U	<0.000293 U	<0.000277 U	<0.000271 U	<0.000269 U	<0.000265 U	<0.000266 U	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	0.000122 J	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000269 U	<0.000302 U	<0.000293 U	<0.000277 U	<0.000271 U	<0.000269 U	<0.000265 U	<0.000266 U	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	0.000511	<0.000302 U	0.000582	<0.000277 U	**0.00305**	0.000179 J	0.000174 J	0.000317	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	<0.000269 U	<0.000302 U	<0.000293 U	<0.000277 U	0.000201 J	0.000054 J	0.000079 J	<0.000266 U	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	0.000183 J	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	0.000054 J	<0.000604 U	<0.000585 U	<0.000555 U	0.000099 J	<0.000538 U	<0.00053 U	0.000054 J	0.000058 J	<0.000572 U	<0.000533 U	<0.000532 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT	27619-97-2	NS	NS	NS	mg/kg	<0.000538 U	<0.000604 U	<0.000585 U	<0.000555 U	<0.000543 U	<0.000538 U	<0.00053 U	<0.000532 U	<0.000517 U	<0.000572 U	<0.000533 U	<0.000532 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.000511	<0.000302 U	0.000582	<0.000277 U	0.00325 J	0.000233 J	0.000253 J	0.000317	<0.000259 U	<0.000286 U	<0.000267 U	<0.000266 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Samples		Base Documentation Sample	
					Location	PE-95	PE-96	PE-97	PE-98	PE-99	PE-100	PE-101	PE-102	PE-102	PE-103	PE-104
					Sample Name	314_PE-95_20220124	316_PE-96_20220128	319_PE-97_20220202	321_PE-98_20220203	322_PE-99_20220203	323_PE-100_20220209	324_PE-101_20220209	326_PE-102_20220216	327_DUP-6	328_PE-103_20220216	329_PE-104_20220216
					Sample Date	01/24/2022	01/28/2022	02/02/2022	02/03/2022	02/03/2022	02/09/2022	02/09/2022	02/16/2022	02/16/2022	02/16/2022	02/16/2022
					Sample Depth	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	7-7.5	7-7.5	7-7.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	500	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
1,1-Dichloroethane	75-34-3	0.27	0.27	240	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
1,1-Dichloroethene	75-35-4	0.33	0.33	500	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	0.0096	<0.0036 U	2 J	0.00031 J	0.005	<0.0031 U	NA	0.0011 J	0.0015 J	0.046 J	0.014
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	190	mg/kg	0.00038 J	0.0008 J	2.2 J	<0.0029 U	0.00034 J	<0.0031 U	<0.0033 U	<0.002 U	<0.0021 U	0.0027 J	0.0095
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0017 U	<0.0054 U	<0.19 U	<0.0044 U	<0.003 U	<0.0046 U	NA	<0.003 U	<0.0032 U	<0.0035 UJ	<0.003 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
1,2-Dichloroethane	107-06-2	0.02	0.02	30	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	190	mg/kg	<0.0012 U	0.001 J	0.11 J	<0.0029 U	<0.002 U	<0.0031 U	<0.0033 U	0.00021 J	<0.0021 U	0.0035 J	0.003
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	0.00091 J	0.00038 J	1.2 J	<0.0029 U	0.0004 J	<0.0031 U	NA	0.00018 J	<0.0021 U	0.0013 J	0.0011 J
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.046 U	<0.14 U	<5 U	<0.12 U	<0.081 U	<0.12 U	NA	<0.082 U	<0.086 U	<0.094 UJ	<0.08 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.0058 U	<0.018 U	<0.62 U	<0.015 U	<0.01 U	<0.015 U	NA	<0.01 U	<0.011 U	<0.012 UJ	<0.01 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	0.62 J	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	0.0051 J	0.0071
Acetone	67-64-1	**0.05**	0.05	500	mg/kg	0.016	0.05	<0.62 U	**0.086**	0.0094 J	**0.097**	NA	0.049	0.032	0.024 J	0.027
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0023 U	<0.0073 U	<0.25 U	<0.0059 U	<0.0041 U	<0.0061 U	NA	<0.0041 U	<0.0043 U	<0.0047 UJ	<0.004 U
Benzene	71-43-2	0.06	0.06	44	mg/kg	<0.00029 U	0.0016	0.028 J	<0.00073 U	<0.00051 U	<0.00076 U	<0.00083 U	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0023 U	<0.0073 U	<0.25 U	<0.0059 U	<0.0041 U	<0.0061 U	NA	<0.0041 U	<0.0043 U	<0.0047 UJ	<0.004 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.0058 U	<0.018 U	<0.62 U	<0.015 U	<0.01 U	<0.015 U	NA	<0.01 U	<0.011 U	<0.012 UJ	<0.01 U
Carbon Tetrachloride	56-23-5	0.76	0.76	22	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
Chlorobenzene	108-90-7	1.1	1.1	500	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
Chloroform	67-66-3	0.37	0.37	350	mg/kg	<0.00087 U	<0.0027 U	<0.094 U	<0.0022 U	<0.0015 U	<0.0023 U	NA	<0.0015 U	<0.0016 U	<0.0018 UJ	<0.0015 U
Chloromethane	74-87-3	NS	NS	NS	mg/kg	<0.0023 U	<0.0073 U	<0.25 U	<0.0059 U	<0.0041 U	<0.0061 U	NA	<0.0041 U	<0.0043 U	<0.0047 UJ	<0.004 U
Cis-1,2-Dichloroethene	156-59-2	0.25	0.25	500	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
Cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
Cymene	99-87-6	NS	NS	NS	mg/kg	<0.00058 U	0.00047 J	0.24 J	<0.0015 U	<0.001 U	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.003 J	0.00085 J
Dibromochloromethane	124-48-1	NS	NS	NS	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
Dibromomethane	74-95-3	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
Dichlorodifluoromethane	75-71-8	NS	NS	NS	mg/kg	<0.0058 U	<0.018 U	<0.62 U	<0.015 U	<0.01 U	<0.015 U	NA	<0.01 U	<0.011 U	<0.012 UJ	<0.01 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	<0.0029 U	<0.002 U	<0.0031 U	NA	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
Ethylbenzene	100-41-4	1	1	390	mg/kg	<0.00058 U	<0.0018 U	0.035 J	<0.0015 U	<0.001 U	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.00049 J	0.001
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.0023 U	<0.0073 U	<0.25 U	<0.0059 U	<0.0041 U	<0.0061 U	NA	<0.0041 U	<0.0043 U	<0.0047 UJ	<0.004 U
Isopropylbenzene (Cumene)	98-82-8	NS	NS	NS	mg/kg	0.00072	0.00023 J	0.52 J	<0.0015 U	0.00027 J	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.00088 J	0.0015
M,P-Xylene	179601-23-1	NS	NS	NS	mg/kg	<0.0012 U	<0.0036 U	0.24 J	<0.0029 U	<0.002 U	<0.0031 U	<0.0033 U	<0.002 U	<0.0021 U	<0.0024 UJ	0.0042
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.12	0.12	500	mg/kg	<0.0058 U	0.011 J	<0.62 U	0.015	<0.01 UJ	0.019	NA	0.0065 J	0.0062 J	<0.012 UJ	<0.01 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	NS	NS	mg/kg	<0.0058 U	<0.018 U	<0.62 U	<0.015 U	<0.01 U	<0.015 U	NA	<0.01 U	<0.011 U	<0.012 UJ	<0.01 U
Methylene Chloride	75-09-2	0.05	0.05	500	mg/kg	<0.0029 U	<0.0091 U	<0.31 U	<0.0073 U	<0.0051 U	<0.0076 U	NA	<0.0051 U	<0.0054 U	<0.0059 UJ	<0.005 U
Naphthalene	91-20-3	12	12	500	mg/kg	0.0011 J	0.012	1.9 J	<0.0059 U	0.0015 J	<0.0061 U	<0.0066 U	0.016 J	0.0069 J	0.013 J	0.0099
n-Butylbenzene	104-51-8	12	12	500	mg/kg	0.0018	<0.0018 U	0.97 J	<0.0015 U	0.0006 J	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.005 J	0.004
n-Propylbenzene	103-65-1	3.9	3.9	500	mg/kg	0.0012	<0.0018 U	0.92 J	<0.0015 U	<0.001 U	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.0014 J	0.0026
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	NS	NS	mg/kg	<0.00058 U	0.00088 J	0.12 J	<0.0015 U	<0.001 U	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.0032 J	0.003
Sec-Butylbenzene	135-98-8	11	11	500	mg/kg	0.0012	<0.0018 U	0.64 J	<0.0015 U	0.0006 J	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.0037 J	0.0025
Styrene	100-42-5	NS	NS	NS	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	0.00023 J	<0.001 U
T-Butylbenzene	98-06-6	5.9	5.9	500	mg/kg	0.0001 J	<0.0036 U	0.035 J	<0.0029 U	<0.002 U	<0.0031 U	<0.0033 U	<0.002 U	<0.0021 U	0.00068 J	0.0002 J
Tert-Butyl Methyl Ether	1634-04-4	0.93	0.93	500	mg/kg	<0.0012 U	<0.0036 U	<0.12 U	0.0019 J	0.00038 J	0.00084 J	0.0011 J	<0.002 U	<0.0021 U	<0.0024 UJ	<0.002 U
Tetrachloroethene (PCE)	127-18-4	1.3	1.3	150	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
Toluene	108-88-3	0.7	0.7	500	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.0016 J	0.00098 J
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	NS	NS	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
Total Xylenes	1330-20-7	**0.26**	1.6	500	mg/kg	<0.00058 U	0.00088 J	**0.36 J**	<0.0015 U	<0.001 U	<0.0015 U	<0.0016 U	<0.001 U	<0.0011 U	0.0032 J	0.0072
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	NS	NS	NS	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
Trans-1,2-Dichloroethene	156-60-5	0.19	0.19	500	mg/kg	<0.00087 U	<0.0027 U	<0.094 U	<0.0022 U	<0.0015 U	<0.0023 U	NA	<0.0015 U	<0.0016 U	<0.0018 UJ	<0.0015 U
Trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U
Trans-1,4-Dichloro-2-Butene	110-57-6	NS	NS	NS	mg/kg	<0.0029 U	<0.0091 U	<0.31 U	<0.0073 U	<0.0051 U	<0.0076 U	NA	<0.0051 U	<0.0054 U	<0.0059 UJ	<0.005 U
Trichloroethene (TCE)	79-01-6	0.47	0.47	200	mg/kg	<0.00029 U	<0.00091 U	<0.031 U	<0.00073 U	<0.00051 U	<0.00076 U	NA	<0.00051 U	<0.00054 U	<0.00059 UJ	<0.0005 U
Trichlorofluoromethane	75-69-4	NS	NS	NS	mg/kg	<0.0023 U	<0.0073 U	<0.25 U	<0.0059 U	<0.0041 U	<0.0061 U	NA	<0.0041 U	<0.0043 U	<0.0047 UJ	<0.004 U
Vinyl Acetate	108-05-4	NS	NS	NS	mg/kg	<0.0058 U	<0.018 U	<0.62 U	<0.015 U	<0.01 U	<0.015 U	NA	<0.01 U	<0.011 U	<0.012 UJ	<0.01 U
Vinyl Chloride	75-01-4	0.02	0.02	13	mg/kg	<0.00058 U	<0.0018 U	<0.062 U	<0.0015 U	<0.001 U	<0.0015 U	NA	<0.001 U	<0.0011 U	<0.0012 UJ	<0.001 U

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Samples		Base Documentation Sample	
					Location	PE-95	PE-96	PE-97	PE-98	PE-99	PE-100	PE-101	PE-102	PE-102	PE-103	PE-104
					Sample Name	314_PE-95_20220124	316_PE-96_20220128	319_PE-97_20220202	321_PE-98_20220203	322_PE-99_20220203	323_PE-100_20220209	324_PE-101_20220209	326_PE-102_20220216	327_DUP-6	328_PE-103_20220216	329_PE-104_20220216
					Sample Date	01/24/2022	01/28/2022	02/02/2022	02/03/2022	02/03/2022	02/09/2022	02/09/2022	02/16/2022	02/16/2022	02/16/2022	02/16/2022
					Sample Depth	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	7-7.5	7-7.5	7-7.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	500	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	280	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	130	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	130	mg/kg	<0.028 U	<0.041 U	<0.029 U	<0.04 U	<0.029 U	<0.12 UJ	NA	<0.03 U	<0.029 U	<0.029 U	<0.029 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.11 U	<0.16 U	<0.12 U	<0.16 U	<0.12 U	<0.48 U	NA	<0.12 U	<0.12 U	<0.12 U	<0.12 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.17 U	<0.25 U	<0.17 U	<0.24 U	<0.18 U	<0.72 U	NA	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.91 U	<1.3 U	<0.92 U	<1.3 U	<0.94 U	<3.9 U	NA	<0.97 U	<0.94 U	<0.94 U	<0.93 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	<0.23 U	1.1	1.7	<0.32 U	0.49	<0.97 U	NA	0.087 J	0.14 J	0.67	0.44
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	500	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	0.056 J	0.04 J
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.41 U	<0.59 U	<0.41 U	<0.57 U	<0.42 U	<1.7 U	NA	<0.44 U	<0.42 U	<0.42 U	<0.42 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	**0.33**	0.33	500	mg/kg	<0.27 U	**0.47**	<0.28 U	<0.38 U	0.054 J	<1.2 U	NA	<0.29 U	0.04 J	0.18 J	0.24 J
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 UJ	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.49 U	<0.71 U	<0.5 U	<0.69 U	<0.51 U	<2.1 U	NA	<0.52 U	<0.51 U	<0.51 U	<0.5 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 UJ	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.26 U	<0.38 U	<0.27 U	<0.37 U	<0.27 U	<1.1 U	NA	<0.28 U	<0.28 U	<0.27 U	<0.27 U
Acenaphthene	83-32-9	**20**	98	500	mg/kg	<0.15 U	0.69	0.49	0.036 J	0.58	<0.64 U	<0.22 U	0.21	0.46	0.86	1.6
Acenaphthylene	208-96-8	100	107	500	mg/kg	<0.15 U	<0.22 U	<0.15 U	<0.21 U	0.1 J	<0.64 U	<0.22 U	0.11 J	0.14 J	0.51	0.16
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Anthracene	120-12-7	**100**	1000	500	mg/kg	<0.11 U	0.31	0.36	<0.16 U	0.76	<0.48 U	<0.16 U	0.37 J	0.81 J	1.5	2.1
Benzo(a)anthracene	56-55-3	**1**	1	5.6	mg/kg	<0.11 U	0.27	0.6	0.05 J	**1.3**	0.12 J	0.052 J	0.82 J	**1.5 J**	**3**	**3.7**
Benzo(a)pyrene	50-32-8	**1**	22	1	mg/kg	<0.15 U	0.26	0.36	<0.21 U	1	<0.64 U	<0.22 U	0.74 J	**1.3 J**	**2.7**	**3.7**
Benzo(b)fluoranthene	205-99-2	**1**	1.7	5.6	mg/kg	<0.11 U	0.26	0.35	0.05 J	**1.2**	<0.48 U	0.07 J	0.84 J	**1.5 J**	**3.1**	**4.1**
Benzo(g,h,i)Perylene	191-24-2	100	1000	500	mg/kg	<0.15 U	0.14 J	0.22	<0.21 U	0.56	0.14 J	0.04 J	0.37 J	0.67 J	1.6	2.3
Benzo(k)fluoranthene	207-08-9	**0.8**	1.7	56	mg/kg	<0.11 U	0.078 J	0.095 J	<0.16 U	0.34	<0.48 U	<0.16 U	0.27	0.44	0.63	0.8
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.62 UJ	<0.89 UJ	<0.62 UJ	<0.86 UJ	<0.63 UJ	<2.6 UJ	NA	<0.65 UJ	<0.64 UJ	<0.63 UJ	<0.63 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	<0.43 U	0.19 J	<0.44 U	<0.6 U	0.065 J	<1.8 U	NA	<0.46 U	0.04 J	0.11 J	0.21 J
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.2 U	<0.3 U	<0.21 U	<0.29 U	<0.21 U	<0.87 U	NA	<0.22 U	<0.21 U	<0.21 U	<0.21 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.17 U	<0.25 U	<0.17 U	<0.24 U	<0.18 U	<0.72 U	NA	<0.18 U	<0.18 U	<0.18 U	<0.18 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<0.23 U	<0.33 U	<0.23 U	<0.32 U	<0.23 U	<0.97 U	NA	<0.24 U	<0.24 U	<0.23 U	<0.23 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	<0.19 U	0.14 J	<0.19 U	<0.26 U	0.42	0.08 J	NA	0.2	0.39	0.46	0.66
Chrysene	218-01-9	**1**	1	56	mg/kg	<0.11 U	0.24	0.78	0.047 J	**1.4**	0.099 J	0.042 J	0.79 J	**1.4 J**	**2.8**	**3.4**
Dibenz(a,h)anthracene	53-70-3	**0.33**	1000	0.56	mg/kg	<0.11 U	<0.16 U	0.052 J	<0.16 U	0.14	<0.48 U	<0.16 U	0.079 J	0.15	0.3	**0.44**
Dibenzofuran	132-64-9	**7**	210	350	mg/kg	<0.19 U	0.15 J	0.26	<0.26 U	0.43	<0.81 U	NA	0.16 J	0.29	0.67	1.2
Dibutyl phthalate	84-74-2	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Diethyl phthalate	84-66-2	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Dimethyl phthalate	131-11-3	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Dioctyl phthalate	117-84-0	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Fluoranthene	206-44-0	**100**	1000	500	mg/kg	<0.11 U	0.65	0.86	0.082 J	3	0.12 J	0.051 J	1.9 J	3.5 J	5.8	9.2
Fluorene	86-73-7	**30**	386	500	mg/kg	<0.19 U	0.45	0.53	<0.26 U	0.64	0.078 J	<0.28 U	0.24	0.43	1.2	1.6
Hexachlorobenzene	118-74-1	0.33	3.2	6	mg/kg	<0.11 U	<0.16 U	<0.12 U	<0.16 U	<0.12 U	<0.48 U	NA	<0.12 U	<0.12 U	<0.12 U	<0.12 U
Hexachlorobutadiene	87-68-3	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	mg/kg	<0.54 U	<0.78 U	<0.55 U	<0.76 U	<0.56 U	<2.3 U	NA	<0.58 U	<0.56 U	<0.56 U	<0.56 U
Hexachloroethane	67-72-1	NS	NS	NS	mg/kg	<0.15 U	<0.22 U	<0.15 U	<0.21 U	<0.16 U	<0.64 U	NA	<0.16 U	<0.16 U	<0.16 U	<0.16 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	8.2	5.6	mg/kg	<0.15 U	0.14 J	0.14 J	<0.21 U	**0.59**	0.11 J	0.043 J	0.4 J	**0.77 J**	**1.7**	**2.4**
Isophorone	78-59-1	NS	NS	NS	mg/kg	<0.17 U	<0.25 U	<0.17 U	<0.24 U	<0.18 U	<0.72 U	NA	<0.18 U	<0.18 U	<0.18 U	<0.18 U
Naphthalene	91-20-3	**12**	12	500	mg/kg	<0.19 U	2.2	0.1 J	<0.26 U	0.58	<0.81 U	0.044 J	0.15 J	0.3	1.2	1.9
Nitrobenzene	98-95-3	NS	NS	NS	mg/kg	<0.17 U	<0.25 U	<0.17 U	<0.24 U	<0.18 U	<0.72 U	NA	<0.18 U	<0.18 U	<0.18 U	<0.18 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	NS	NS	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	<0.2 U	<0.81 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.19 U
n-Nitrosodiphenylamine	86-30-6	NS	NS	NS	mg/kg	<0.15 U	<0.22 U	<0.15 U	<0.21 U	<0.16 U	<0.64 U	NA	<0.16 U	<0.16 U	<0.16 U	<0.16 U
Pentachlorophenol	87-86-5	0.8	0.8	6.7	mg/kg	<0.15 U	<0.22 U	<0.15 U	<0.21 U	<0.16 U	0.34 J	NA	<0.16 U	<0.16 U	<0.16 U	<0.16 U
Phenanthrene	85-01-8	**100**	1000	500	mg/kg	<0.11 U	1.5	2	0.044 J	4	0.1 J	0.062 J	1.9 J	3.6 J	6	6.9
Phenol	108-95-2	**0.33**	0.33	500	mg/kg	<0.19 U	<0.27 U	<0.19 U	<0.26 U	0.034 J	<0.81 U	NA	<0.2 U	<0.2 U	0.11 J	0.11 J
Pyrene	129-00-0	**100**	1000	500	mg/kg	<0.11 U	0.72	1.4	0.073 J	2.8	0.12 J	0.049 J	1.6 J	2.9 J	5.3	7.3

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Samples		Base Documentation Sample	
					Location	PE-95	PE-96	PE-97	PE-98	PE-99	PE-100	PE-101	PE-102	PE-102	PE-103	PE-104
					Sample Name	314_PE-95_20220124	316_PE-96_20220128	319_PE-97_20220202	321_PE-98_20220203	322_PE-99_20220203	323_PE-100_20220209	324_PE-101_20220209	326_PE-102_20220216	327_DUP-6	328_PE-103_20220216	329_PE-104_20220216
					Sample Date	01/24/2022	01/28/2022	02/02/2022	02/03/2022	02/03/2022	02/09/2022	02/09/2022	02/16/2022	02/16/2022	02/16/2022	02/16/2022
					Sample Depth	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	7-7.5	7-7.5	7-7.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																
4,4'-DDD	72-54-8	**0.0033**	14	92	mg/kg	<0.00185 U	<0.00255 U	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
4,4'-DDE	72-55-9	**0.0033**	17	62	mg/kg	<0.00185 U	<0.00255 U	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
4,4'-DDT	50-29-3	**0.0033**	136	47	mg/kg	<0.00347 U	<0.00479 U	<0.00338 U	<0.00456 U	<0.00349 U	<0.00476 U	NA	<0.0036 U	<0.00351 U	<0.0345 U	<0.00358 U
Aldrin	309-00-2	0.005	0.19	0.68	mg/kg	<0.00185 U	<0.00255 U	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	3.4	mg/kg	<0.000771 U	<0.00106 U	<0.000752 U	<0.00101 U	<0.000776 U	<0.00106 U	NA	<0.000799 U	<0.00078 U	<0.00766 U	<0.000796 U
Alpha Chlordane	5103-71-9	0.094	2.9	24	mg/kg	<0.00231 U	<0.00319 U	<0.00226 U	<0.00304 U	<0.00233 U	<0.00317 U	NA	<0.0024 U	<0.00234 U	<0.023 U	<0.00239 U
Alpha Endosulfan	959-98-8	2.4	102	200	mg/kg	<0.00185 U	<0.00255 U	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	3	mg/kg	<0.00185 U	<0.00255 UJ	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
Beta Endosulfan	33213-65-9	2.4	102	200	mg/kg	<0.00185 U	<0.00255 U	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0154 U	<0.0213 U	<0.015 U	<0.0203 U	<0.0155 U	<0.0211 U	NA	<0.016 U	<0.0156 U	<0.153 U	<0.0159 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	500	mg/kg	<0.00185 U	<0.00255 U	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
Dieldrin	60-57-1	**0.005**	0.1	1.4	mg/kg	<0.00116 U	<0.0016 U	<0.00113 U	<0.00152 U	<0.00116 U	<0.00158 U	NA	<0.0012 U	<0.00117 U	<0.0115 U	<0.00119 U
Endosulfan Sulfate	1031-07-8	2.4	1000	200	mg/kg	<0.000771 U	<0.00106 U	<0.000752 U	<0.00101 U	<0.000776 U	<0.00106 U	NA	<0.000799 U	<0.00078 U	<0.00766 U	<0.000796 U
Endrin	72-20-8	0.014	0.06	89	mg/kg	<0.000771 U	<0.00106 U	<0.000752 U	<0.00101 U	<0.000776 U	<0.00106 U	NA	<0.000799 U	<0.00078 U	<0.00766 U	<0.000796 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00231 U	<0.00319 U	<0.00226 U	<0.00304 U	<0.00233 U	<0.00317 U	NA	<0.0024 U	<0.00234 U	<0.023 U	<0.00239 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00185 U	<0.00255 U	<0.0018 U	<0.00243 U	<0.00186 U	<0.00254 U	NA	<0.00192 U	<0.00187 U	<0.0184 U	<0.00191 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	9.2	mg/kg	<0.000771 U	<0.00106 U	<0.000752 U	<0.00101 U	<0.000776 U	<0.00106 U	NA	<0.000799 U	<0.00078 U	<0.00766 U	<0.000796 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	<0.00231 U	<0.00319 U	<0.00226 U	<0.00304 U	<0.00233 U	<0.00317 U	NA	<0.0024 U	<0.00234 U	<0.023 U	<0.00239 U
Heptachlor	76-44-8	0.042	0.38	15	mg/kg	<0.000925 U	<0.00128 U	<0.000902 U	<0.00122 U	<0.000931 U	<0.00127 U	NA	<0.000959 U	<0.000936 U	<0.00919 U	<0.000955 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00347 U	<0.00479 U	<0.00338 U	<0.00456 U	<0.00349 U	<0.00476 U	NA	<0.0036 U	<0.00351 U	<0.0345 U	<0.00358 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00347 U	<0.00479 U	<0.00338 U	<0.00456 U	<0.00349 U	<0.00476 U	NA	<0.0036 U	<0.00351 U	<0.0345 U	<0.00358 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0347 U	<0.0479 U	<0.0338 U	<0.0456 U	<0.0349 U	<0.0476 U	NA	<0.036 U	<0.0351 U	<0.345 U	<0.0358 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.193 U	<0.274 U	<0.195 U	<0.264 U	<0.194 U	<0.272 U	NA	<0.199 U	<0.197 U	<0.196 U	<0.197 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.193 U	<0.274 U	<0.195 U	<0.264 U	<0.194 U	<0.272 U	NA	<0.199 U	<0.197 U	<0.196 U	<0.197 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	500	mg/kg	<0.193 U	<0.274 U	<0.195 U	<0.264 U	<0.194 U	<0.272 U	NA	<0.199 U	<0.197 U	<0.196 U	<0.197 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
Total PCBs	1336-36-3	**0.1**	3.2	1	mg/kg	<0.0382 U	<0.0558 U	<0.038 U	<0.0523 U	<0.0391 U	<0.0536 U	NA	<0.0397 U	<0.0379 U	<0.0393 U	<0.039 U
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	9,880 J	8,670	7,320	11,100	5,110	11,800	NA	9,380	9,110	6,390	5,460
Antimony	7440-36-0	NS	NS	NS	mg/kg	<4.45 UJ	0.52 J	<4.62 U	<6.3 U	<4.64 U	<6.6 UJ	NA	<4.66 UJ	<4.53 U	<4.64 U	<4.65 U
Arsenic	7440-38-2	**13**	16	16	mg/kg	1.48	9.39	2.4	8.36	8.65	5.56	NA	1.73	1.69	4.27	4.87
Barium	7440-39-3	**350**	820	400	mg/kg	85.5 J	43.8	72	46.2	128	31.4	NA	96.5 J	193 J	98.4	95.6
Beryllium	7440-41-7	7.2	47	590	mg/kg	<0.445 U	0.343 J	0.323 J	0.328 J	0.297 J	0.462 J	NA	0.354 J	0.344 J	0.316 J	0.288 J
Cadmium	7440-43-9	**2.5**	7.5	9.3	mg/kg	0.302 J	<1.27 U	0.443 J	0.516 J	0.678 J	0.422 J	NA	0.485 J	0.471 J	0.678 J	0.744 J
Calcium	7440-70-2	NS	NS	NS	mg/kg	934 J	28,600	3,970	3,050	25,100	2,340 J	NA	1,880 J	1,010 J	20,300	31,200
Chromium, Hexavalent	18540-29-9	1	19	400	mg/kg	<0.941 UJ	<1.35 UJ	<0.94 U	<1.28 U	<0.962 U	<1.32 UJ	NA	<0.968 U	<0.95 U	<0.955 U	<0.96 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	26.7 J	17.3	17	27	13.1	31.7	NA	21.3	22.8	15.2	14.7
Chromium, Trivalent	16065-83-1	**30**	NS	1500	mg/kg	27	17	17	27	13	**32**	NA	21	23	15	15
Cobalt	7440-48-4	NS	NS	NS	mg/kg	10.4	5.41	6.97	7.07	4.87	7.78	NA	8.65	8.71	6.8	6.03
Copper	7440-50-8	**50**	1720	270	mg/kg	20.4	23.2	33.2	22.4	22.2	13.3	NA	26.7	24.4	**55.3**	**54.8**
Cyanide	57-12-5	27	40	27	mg/kg	<1.2 UJ	<1.6 UJ	<1.1 UJ	<1.5 UJ	<1.1 UJ	<1.6 UJ	NA	0.44 J	<1.1 U	<1.1 U	0.31 J
Iron	7439-89-6	NS	NS	NS	mg/kg	18,300 J	16,000	14,600	21,900	9,840	24,300	NA	16,800	14,300	13,200	12,400
Lead	7439-92-1	**63**	450	1000	mg/kg	7.4	**109**	50.8	**90.4**	**2,530**	18.7	NA	41.3 J	39.6	**190**	**155**
Magnesium	7439-95-4	NS	NS	NS	mg/kg	4,110 J	4,950	3,080	5,280	2,080	6,350	NA	3,200 J	3,320	7,900	7,790
Manganese	7439-96-5	1600	2000	10000	mg/kg	192 J	222	157	196	297	232	NA	158 J	129	262	325
Mercury	7439-97-6	**0.18**	0.73	2.8	mg/kg	<0.074 U	**6.03**	**0.271**	**0.785**	**0.395**	<0.118 U	NA	0.122 J	0.067 J	**0.546**	**0.802**
Nickel	7440-02-0	**30**	130	310	mg/kg	20.2	13.3	17	19.9	16.6	19.1	NA	17.1	19.3	14.6	13.7
Potassium	7440-09-7	NS	NS	NS	mg/kg	3,770	1,820	1,990	2,400	895	3,090	NA	2,540 J	2,570	1,910	1,550
Selenium	7782-49-2	**3.9**	4	1500	mg/kg	<1.78 U	0.863 J	<1.85 U	0.617 J	1.32 J	0.528 J	NA	<1.86 U	<1.81 U	0.353 J	0.772 J
Silver	7440-22-4	**2**	8.3	1500	mg/kg	<0.889 U	<1.27 U	<0.923 U	<1.26 U	<0.929 U	<1.32 U	NA	<0.932 U	<0.907 U	<0.929 U	<0.93 U
Sodium	7440-23-5	NS	NS	NS	mg/kg	<178 U	859	117 J	363	143 J	1,080	NA	<186 U	<181 U	211	232
Thallium	7440-28-0	NS	NS	NS	mg/kg	<1.78 UJ	<2.54 U	<1.85 U	<2.52 U	<1.86 U	<2.64 UJ	NA	<1.86 UJ	<1.81 U	<1.86 U	<1.86 U
Vanadium	7440-62-2	NS	NS	NS	mg/kg	34.4 J	21.8	23.5	37.9	17.5	40.3	NA	27.4	30.3	24.1	26.8
Zinc	7440-66-6	**109**	2480	10000	mg/kg	42.2 J	55.5	69.4	65.4	**552**	66	NA	55.1	48	**148**	**166**
General Chemistry																
Total Solids	TSOLID	NS	NS	NS	Percent	85	59.2	85.1	62.3	83.2	60.5	59.8	82.6	84.2	83.8	83.3

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs	Purpose	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample/Perimeter Documentation Sample	Spill No. 1902392 Documentation Sample/Base Documentation Sample	Spill No. 1902392 Documentation Sample	Perimeter Documentation Samples		Base Documentation Sample	
					Location	PE-95	PE-96	PE-97	PE-98	PE-99	PE-100	PE-101	PE-102	PE-102	PE-103	PE-104
					Sample Name	314_PE-95_20220124	316_PE-96_20220128	319_PE-97_20220202	321_PE-98_20220203	322_PE-99_20220203	323_PE-100_20220209	324_PE-101_20220209	326_PE-102_20220216	327_DUP-6	328_PE-103_20220216	329_PE-104_20220216
					Sample Date	01/24/2022	01/28/2022	02/02/2022	02/03/2022	02/03/2022	02/09/2022	02/09/2022	02/16/2022	02/16/2022	02/16/2022	02/16/2022
					Sample Depth	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	12-12.5	7-7.5	7-7.5	7-7.5	6-6.5
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perfluorooctanoic acids																
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA	2991-50-6	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 UJ	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOS	2355-31-9	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000264 U	<0.00041 U	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 U	<0.000283 U	<0.000287 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000264 U	<0.00041 U	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 U	<0.000283 U	<0.000287 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000264 U	<0.00041 U	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 U	<0.000283 U	<0.000287 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000264 U	<0.00041 U	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 U	<0.000283 U	<0.000287 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000264 U	<0.00041 UJ	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 UJ	<0.000283 U	<0.000287 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.00088**	0.0037	0.44	mg/kg	<0.000264 U	<0.00041 U	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 U	0.000263 J	0.000187 J
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.00066**	0.0011	0.5	mg/kg	<0.000264 U	<0.00041 U	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 U	0.00005 J	<0.000287 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000528 U	0.000108 J	0.000114 J	0.000135 J	0.000107 J	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FT	39108-34-4	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 UJ	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FT:	27619-97-2	NS	NS	NS	mg/kg	<0.000528 U	<0.00082 U	<0.000565 U	<0.000783 U	<0.000576 U	<0.000731 U	NA	<0.000562 U	<0.00055 U	<0.000567 U	<0.000574 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	<0.000264 U	<0.00041 U	<0.000282 U	<0.000391 U	<0.000288 U	<0.000366 U	NA	<0.000281 U	<0.000275 U	0.000313 J	0.000187 J

Table 2
Site Management Plan
Hot Spot Sample and Documentation Endpoint Soil Sample Analytical Results

280 West 155th Street Development
New York, New York
NYSDEC BCP Site No.: C231138
Langan Project No.: 100765102

Notes:
CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use, Protection of Groundwater, and Restricted Use Commercial Soil Cleanup Objectives (SCO).

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Unrestricted Use, Restricted Use Restricted-Residential, and Protection of Groundwater Guidance Values (June 2021).

Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).

Qualifiers:

P - The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.

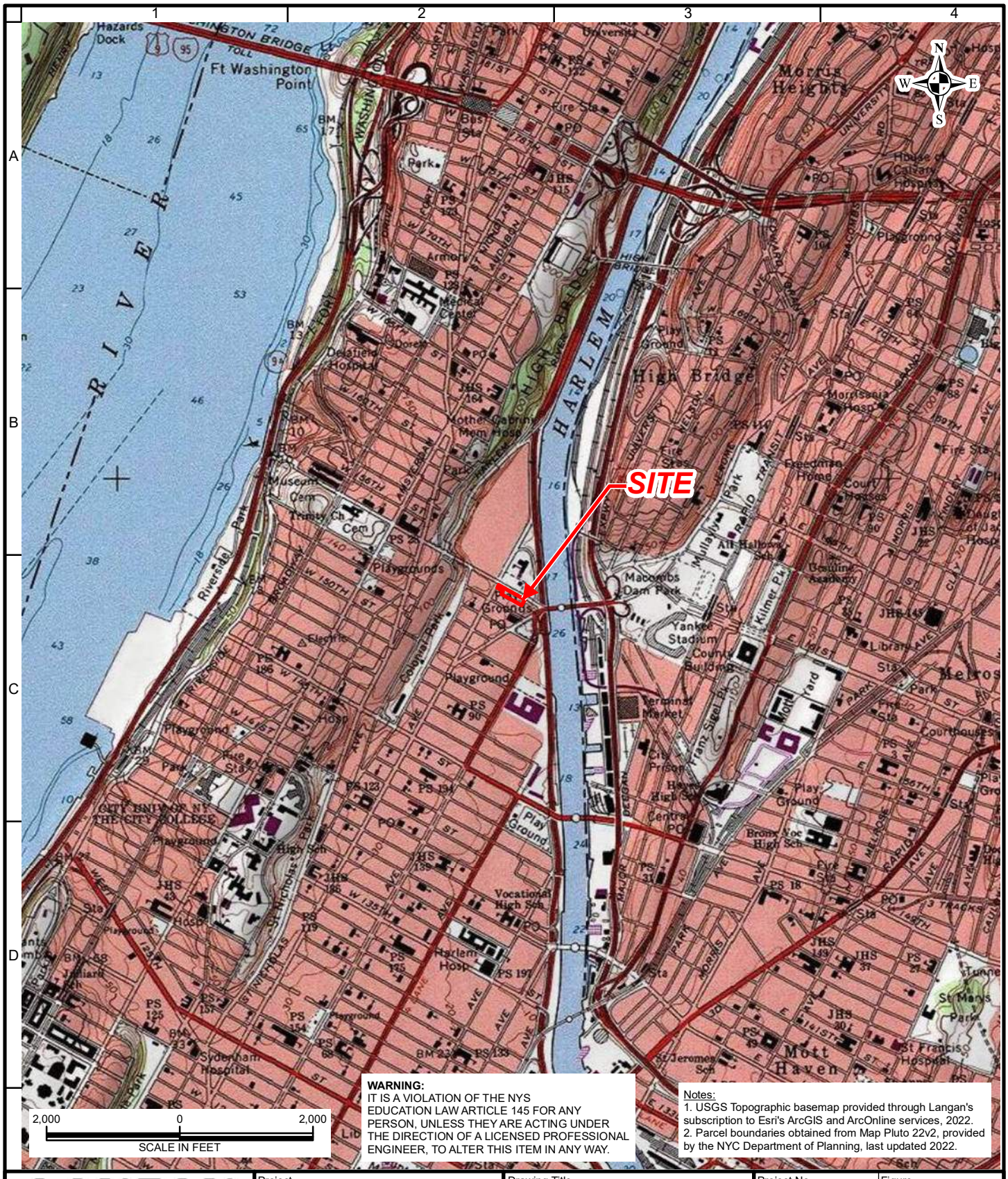
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for

Exceedance Summary:

10	- Result exceeds Unrestricted Use SCOs
10	- Result exceeds Protection of Groundwater SCOs
10	- Result exceeds Restricted Use Commercial SCOs

FIGURES



WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Notes:
1. USGS Topographic basemap provided through Langan's subscription to Esri's ArcGIS and ArcOnline services, 2022.
2. Parcel boundaries obtained from Map Pluto 22v2, provided by the NYC Department of Planning, last updated 2022.

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Langan International LLC
Collectively known as Langan

Project
280 WEST 155TH STREET DEVELOPMENT
NYSDEC BCP Site No.: C231138

BLOCK No. 2040, LOT No. 48
(Former Lots 48, 61 and 62)

MANHATTAN NEW YORK NEW YORK

Drawing Title
SITE LOCATION MAP

Project No.	100765102
Date	12/19/2022
Scale	1 " = 2,000 '
Drawn By	IHB
Figure	1

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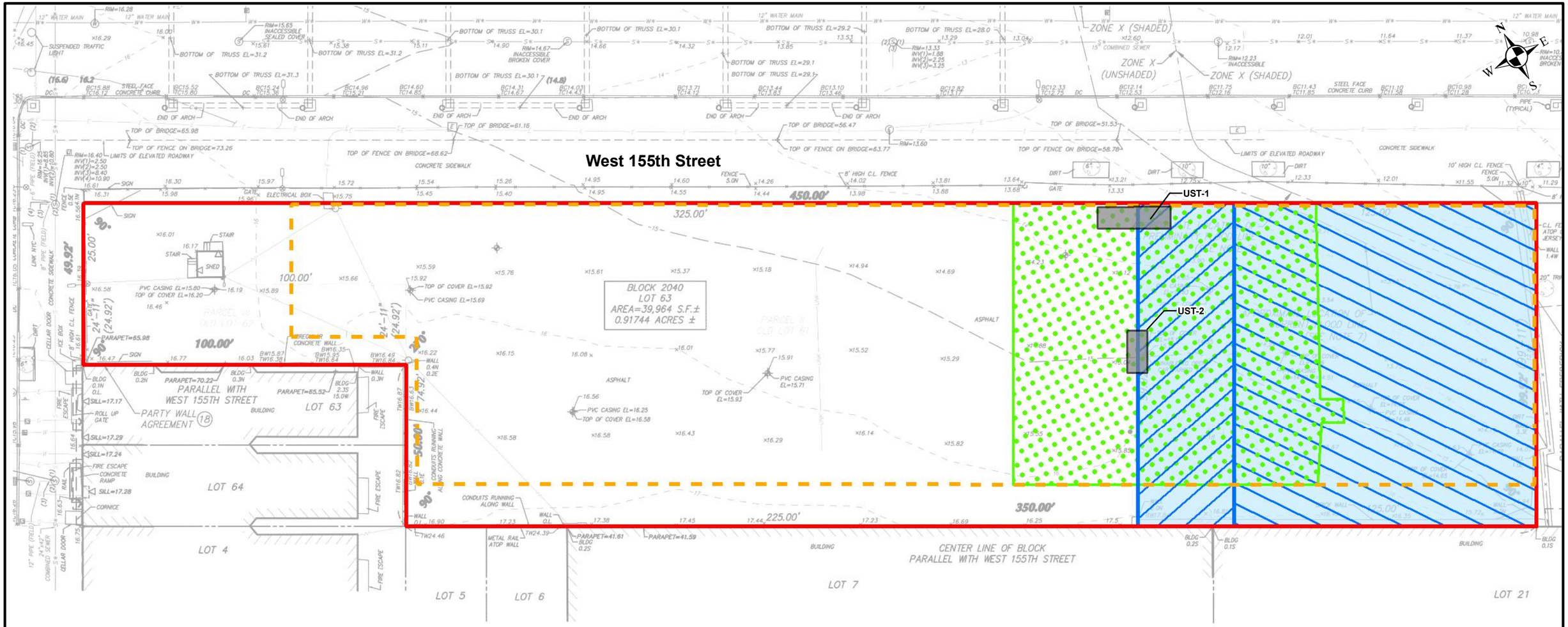
Path: \\langan.com\data\PAR\data1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figure 1 - Site Location Map.mxd Date: 12/19/2022 User: ibaker Time: 1:28:10 PM



Legend

- Site Boundary
- Underground Storage Tank
- AOC-1 (Petroleum Impacts from Historical Site Operations)
- Historical Commercial Laundry
- Historical Boiler Room
- Historical Approval for Automotive Repair and Fuel Storage
- Cellar Footprint

Notes:
1. Site boundary and basemap from Topographic, Boundary, and Utility Survey prepared by Langan dated 19 August 2020.
2. Cellar Footprint shown according to Cellar Slab. As Built Top of Slab prepared by StructureTech dated 29 April 2022.
3. AOC-2 (Chlorinated VOC Impacts from Historical Site Operations) and AOC-3 (Historical Filling Associated with Harlem River) encompass the entire Site footprint.
4. UST locations are approximate and are based on visual observation and field-taping measurements obtained by the Langan representative.

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30 0 30
SCALE IN FEET

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Langan International LLC
Collectively known as Langan

Project
280 WEST 155TH STREET DEVELOPMENT
NYSDEC BCP Site No.: C231138

BLOCK No. 2040, LOT No. 48
(Former Lots 48, 61 and 62)

NEW YORK
MANHATTAN NEW JERSEY

Drawing Title
SITE PLAN

Project No.	Figure
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Date: 12/19/2022	
Scale: 1 " = 30 '	
Drawn By: ATR	

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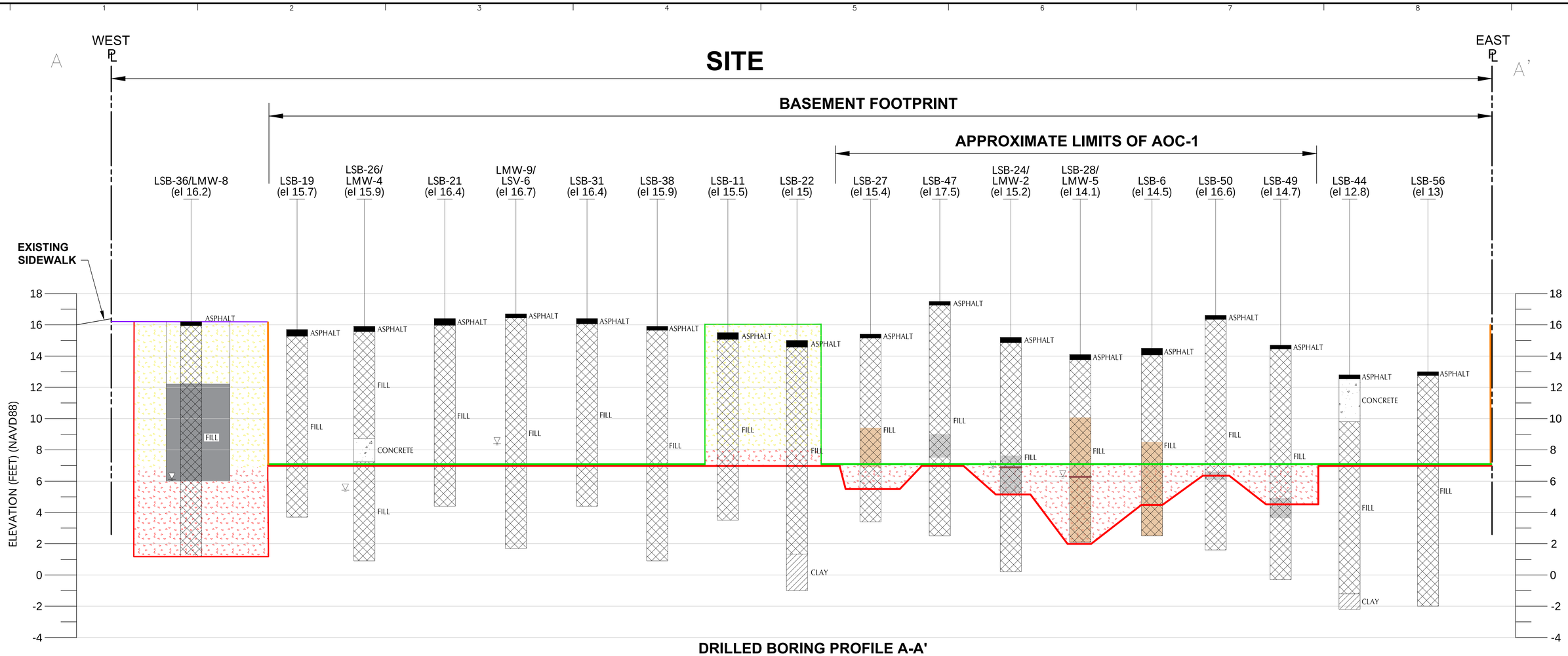
Path: \\langan.com\data\PAR\data1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figure 2 - Site Plan.mxd Date: 12/19/2022 User: ibaker Time: 1:29:52 PM

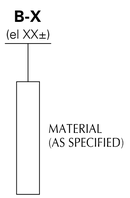


DRILLED BORING PROFILE A-A'

VERTICAL SCALE: 1" = 3'

HORIZONTAL SCALE: NOT TO SCALE

BORING KEY:

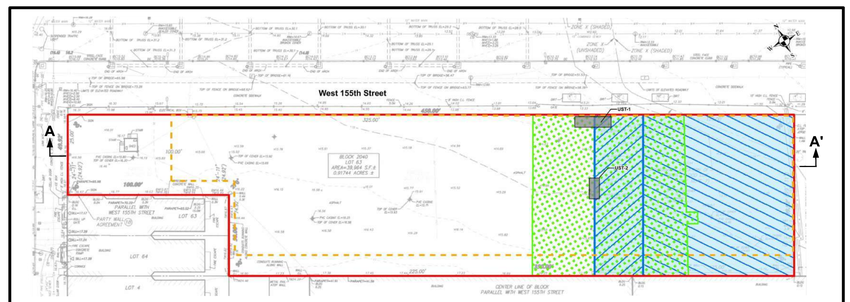


LEGEND:

B-X	DRILLED BORING IDENTIFICATION
el XX±	APPROXIMATE SURFACE ELEVATION AT THE TIME OF BORING (NAVD88)
	GROUNDWATER IN MONITORING WELL
	PETROLEUM IMPACTS OBSERVED WITHIN SOIL BORING
	PRODUCT OBSERVED DURING MONITORING WELL GAUGING
	APPROXIMATE DEPTH OF EXCAVATION
	APPROXIMATE DENSE GRADED AGGREGATE BACKFILL EXTENTS
	APPROXIMATE RECYCLED CONCRETE AGGREGATE BACKFILL EXTENTS (ABOVE GROUNDWATER TABLE)
	APPROXIMATE LOCATION OF STORMWATER DETENTION TANK
	CONCRETE COVER
	CONCRETE BASEMENT FOUNDATION WALL AND VAPOR BARRIER
	CONCRETE BASEMENT SLAB AND VAPOR BARRIER

NOTES:

1. THIS PROFILE SHOWS GENERALIZED SUBSURFACE CONDITIONS AT THE RESPECTIVE BORING LOCATIONS PRIOR TO REDEVELOPMENT. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORINGS. FOR A DETAILED DESCRIPTION OF CONDITIONS ENCOUNTERED, SEE BORING LOGS INCLUDED IN THE RIR.
2. SOIL BORING/MONITORING WELL LOCATIONS WERE COLLECTED USING THE ARCGIS COLLECTOR APPLICATION ON A TABLET UTILIZING GPS LOCATION, WITH THE EXCEPTION OF MONITORING WELLS WHICH WERE SURVEYED USING GPS.
3. EXCAVATION DEPTHS AND EXTENTS, AS WELL AS THE STORMWATER DETENTION TANK DEPTH AND EXTENT, ARE APPROXIMATE AND ARE BASED ON VISUAL OBSERVATION AND FIELD-TAPING MEASUREMENTS OBTAINED BY THE LANGAN REPRESENTATIVE.
4. GROUND SURFACE, SOIL BORING AND OFF-SITE ELEVATIONS ARE INFERRED FROM FROM A 19 AUGUST 2020 DRAFT DRAWING ENTITLED "TOPOGRAPHIC, BOUNDARY AND UTILITY SURVEY", PREPARED BY LANGAN. MONITORING WELL LOCATIONS WERE SURVEYED USING GPS LOCATING TECHNIQUES AND ARE ALSO SHOWN ON THE ASSOCIATED SURVEY.
5. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD88.
6. EVIDENCE OF PETROLEUM IMPACTS INCLUDE THE PRESENCE OF PRODUCT, SHEEN, ODOR, AND/OR ELEVATED PID READINGS.
7. ENVIRONMENTAL SOIL BORINGS LSB-1 THROUGH LSB-22 WERE COMPLETED BETWEEN 25 AND 26 MARCH 2019 AS PART OF THE 2019 PRE-CHARACTERIZATION INVESTIGATION. LSB-23 THROUGH LSB-35 WERE COMPLETED BETWEEN 30 AND 31 MAY 2019 AS PART OF THE 2019 PHASE II EI, AND LSB-36 THROUGH LSB-54 AS WELL AS LMW-7 AND LMW-9 WERE COMPLETED BETWEEN 28 AUGUST 2020 AND 2 SEPTEMBER 2020 AS PART OF THE 2020 REMEDIAL INVESTIGATION.
8. EXCAVATION FOR CONSTRUCTION OF THE BUILDING BASEMENT WAS COMPLETED TO APPROXIMATELY ELEVATION +7 FEET NAVD88. EXCAVATION DEPTHS IN AOC-1 RANGE FROM 8 TO 12 FEET BELOW SIDEWALK LEVEL CORRESPONDING TO APPROXIMATELY ELEVATION +9.18 FEET NAVD88 TO ELEVATION +0.77 FEET NAVD88. VERTICAL AND HORIZONTAL EXCAVATION EXTENTS IN AOC-1 WERE DETERMINED BASED ON THE VISUAL OBSERVATION OF NON-AQUEOUS PHASE LIQUID SOURCE MATERIAL DURING THE REMEDIAL EXCAVATION.



KEY PLAN

N.T.S.

WARNING:
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3 0 3
VERTICAL SCALE IN FEET

LANGAN
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Project	280 WEST 155TH STREET NYSDEC BCP Site No.: C231138 BLOCK No. 2040, LOT No. 48 (FORMER LOTS 48, 61 AND 62) MANHATTAN NEW YORK
Drawing Title	SUBSURFACE PROFILE A-A'
Project No.	100765102
Date	9/21/2022
Drawn By	AC
Checked By	AK
Drawing No.	3A

Filename: \\langan.com\data\PAR\data1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figures 3A and 3B\Figures 3A and 3B - Subsurface Profiles.dwg Date: 12/16/2022 Time: 14:57 User: ibaker Style Table: Langan.stb Layout: A-A

LANGAN PROJECT NO. 100765102

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NORTH B PL

SOUTH PL B'

SITE

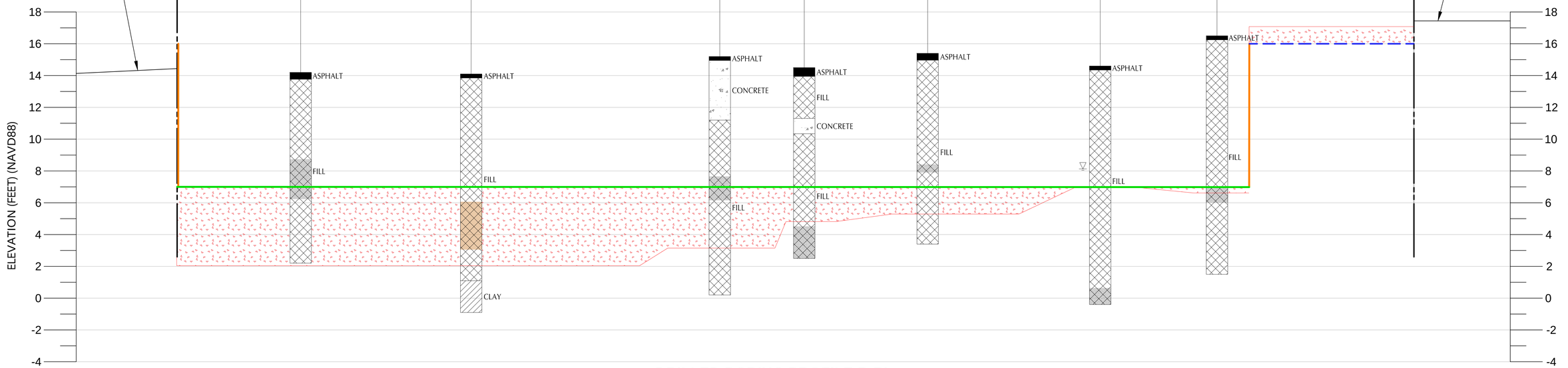
BASEMENT FOOTPRINT

ADJACENT LOT 7

LSB-7 (el 14.2) | LSB-42 (el 14.1) | LSB-41 (el 15.2) | LSB-32 (el 14.5) | LSB-9 (el 15.4) | LMW-7 (el 14.6) | LSB-53 (el 16.5)

EXISTING SIDEWALK

EXISTING GRADE

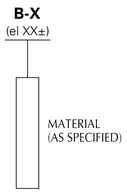


DRILLED BORING PROFILE B-B'

VERTICAL SCALE: 1" = 3'

HORIZONTAL SCALE: NOT TO SCALE

BORING KEY:



LEGEND:

B-X	DRILLED BORING IDENTIFICATION
el XX±	APPROXIMATE SURFACE ELEVATION AT THE TIME OF BORING (NAVD88)
▽	GROUNDWATER IN MONITORING WELL
	PETROLEUM IMPACTS OBSERVED WITHIN SOIL BORING
	PRODUCT OBSERVED DURING MONITORING WELL GAUGING
	APPROXIMATE DEPTH OF EXCAVATION
	APPROXIMATE DENSE GRADED AGGREGATE BACKFILL EXTENTS
	DEMARCATION LAYER
	CONCRETE BASEMENT FOUNDATION WALL AND VAPOR BARRIER
	CONCRETE BASEMENT SLAB AND VAPOR BARRIER

NOTES:

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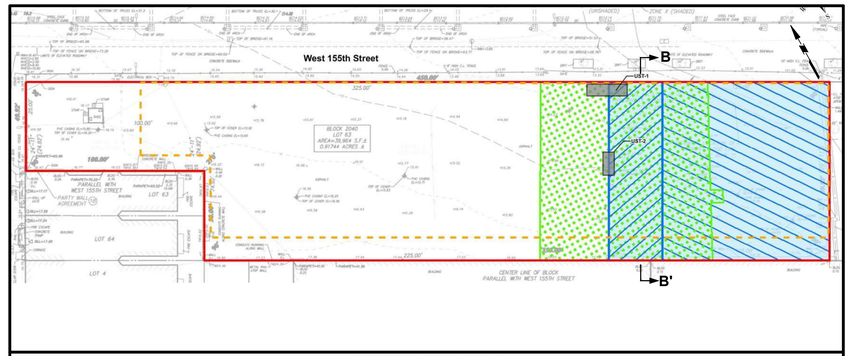

KEY PLAN

N.T.S.

3 0 3

VERTICAL SCALE IN FEET

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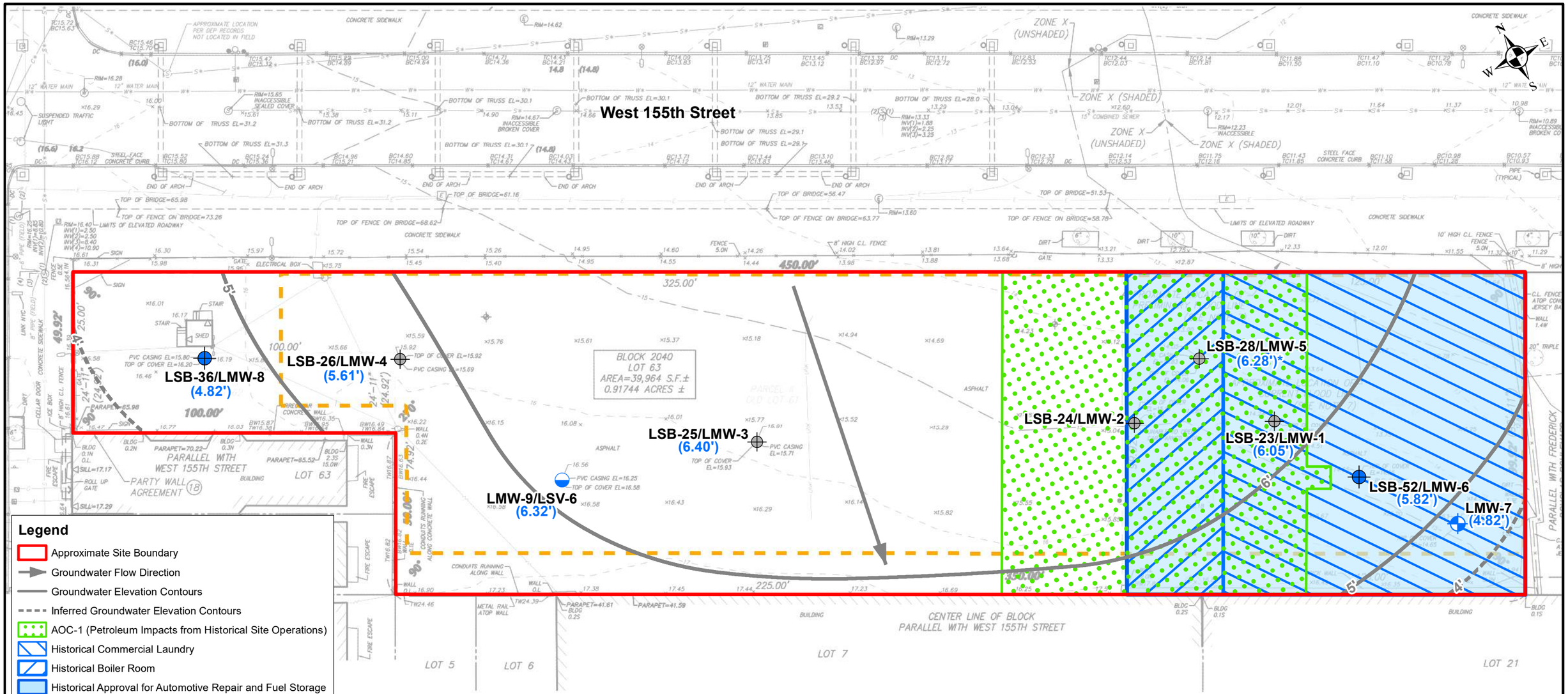
Project	280 WEST 155TH STREET NYSDEC BCP Site No.: C231138 BLOCK No. 2040, LOT No. 48 (FORMER LOTS 48, 61 AND 62) MANHATTAN NEW YORK
Drawing Title	SUBSURFACE PROFILE B-B'
Project No.	100765102
Date	9/21/2022
Drawn By	AC
Checked By	AK
Drawing No.	3B

LANGAN PROJECT NO. 100765102

Filename: \\langan.com\data\PAR\data1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figures 3A and 3B\Figures 3A and 3B - Subsurface Profiles.dwg Date: 12/19/2022 Time: 13:35 User: ibaker Style Table: Langan.stb Layout: B-B



Legend

- Approximate Site Boundary
- Groundwater Flow Direction
- Groundwater Elevation Contours
- Inferred Groundwater Elevation Contours
- AOC-1 (Petroleum Impacts from Historical Site Operations)
- Historical Commercial Laundry
- Historical Boiler Room
- Historical Approval for Automotive Repair and Fuel Storage
- Cellar Footprint
- 2020 RI Soil Boring/Monitoring Well Location
- 2020 RI Soil Vapor/Monitoring Well Location
- 2020 RI Monitoring Well Location
- Historical Soil Boring/Monitoring Well Location

Notes:
1. Site boundary from Topographic, Boundary, and Utility Survey prepared by Langan dated 19 August 2020.
2. Proposed Cellar Footprint shown according to site plan SOE Overall Plan SOE-100 prepared by Ancora Engineering PLLC as part of the support of excavation package dated 6 November 2020.
3. Sample locations for the Pre-Characterization were collected using field measurements taken from the nearest property line. Sample locations for the Phase II and RI were collected using the ArcGIS Collector application on a tablet utilizing GPS location, with the exception of monitoring wells which were surveyed using GPS measurements
4. AOC-2 (Chlorinated VOC Impacts from Historical Site Operations) and AOC-3 (Historical Filling Associated with Harlem River) encompass the entire Site footprint.
5. Groundwater measurements obtained on 2 September 2020.
6. LMW-2 was not accesible during the site survey performed by Langan.
7. * = Monitoring well LMW-5 contained LNAPL during the 2020 gauging event. As such, depth to groundwater could not be accurately determined. LNAPL elevation is shown for LMW-5

30 0 30
SCALE IN FEET

LANGAN
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Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
280 WEST 155TH STREET DEVELOPMENT
NYSDEC BCP Site No.: C231138
BLOCK No. 2040, LOT No. 48
(Former Lots 48, 61 and 62)
MANHATTAN NEW YORK NEW JERSEY

Drawing Title
POTENTIOMETRIC SURFACE MAP

Project No.	100765102
Date	8/19/2022
Scale	1 " = 30 '
Drawn By	ATR
Figure	4

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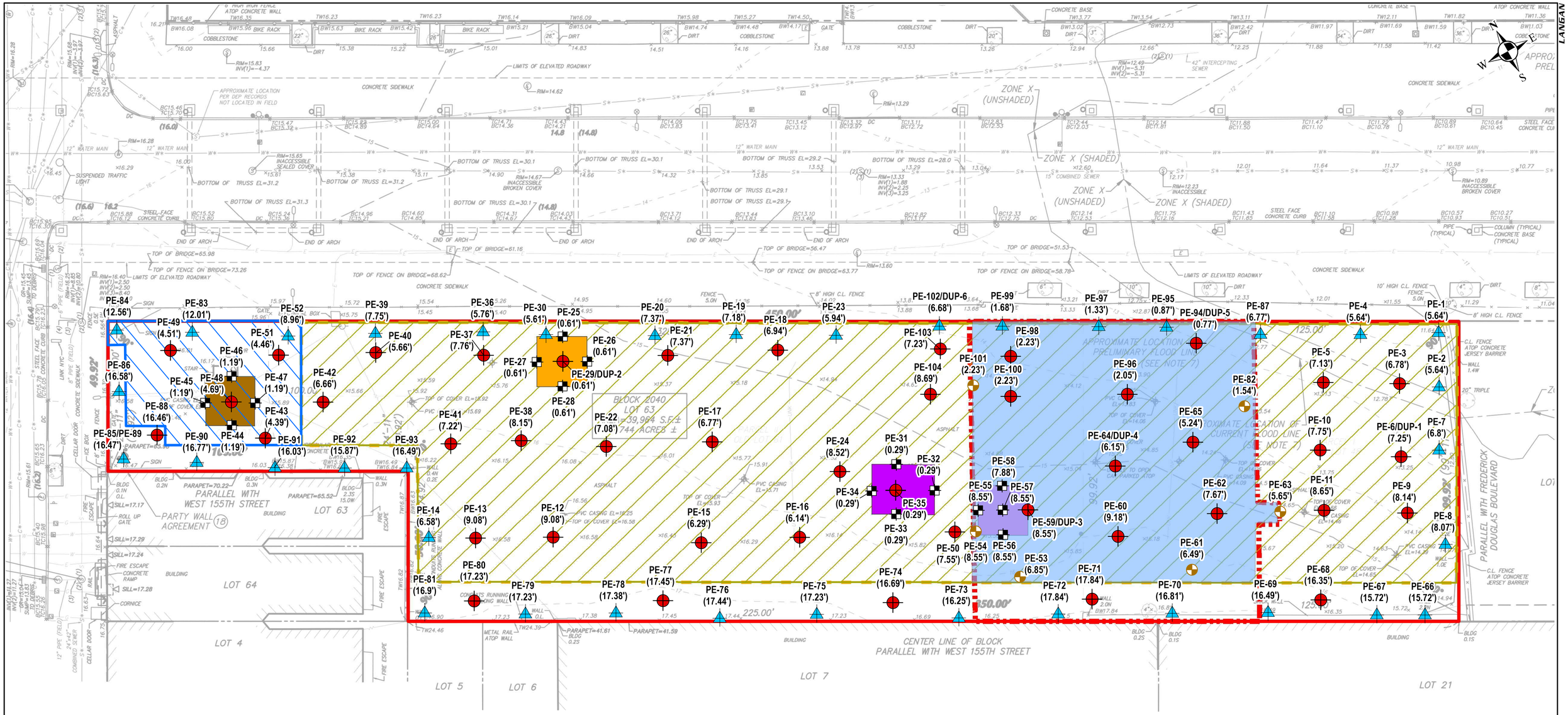

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Legend

- Bottom Documentation Samples
- Hot Spot Documentation Samples
- Perimeter Documentation Samples
- Spill No. 1902392 Documentation Samples
- Site Boundary
- Cellar Footprint
- AOC-1 Extents
- Excavation up to approximately 12 feet below ground surface (bgs) for remediation of Spill no.1902392
- Excavation between approximately 4 and 15 feet bgs for installation of stormwater detention tanks
- Excavation to between approximately 5 and 10 feet bgs throughout (el 7 feet NAVD88) for construction of the cellar
- Excavation to between approximately 11.5 to 15 feet bgs for stormwater tank installation and remediation of PAHs and metals (LSB-36)
- Excavation to approximately 15 feet bgs for remediation of PAHs (LSB-37)
- Excavation to approximately 15 feet bgs for remediation of metals (LSB-39)
- Excavation to approximately 7 feet bgs for remediation of metals (LSB-40)

0 15 30
SCALE IN FEET

Notes:
1. Site boundary from Topographic, Boundary, and Utility Survey prepared by Langan dated 19 August 2020.
2. Cellar Footprint shown according to Cellar Slab. As Built Top of Slab prepared by StructureTech dated 29 April 2022.
3. Sample locations were collected using field measurements taken from the nearest property line.
4. Excavation elevations and associated post excavation sample elevations obtained by subtracting the field measured (via tape measure) sample depth from the nearest elevation provided on the Topographic, Boundary, and Utility Survey prepared by Langan dated 19 August 2020.
5. Approximate elevations shown in parantheses beneath the sample location name in feet North American Vertical Datum of 1988 (NAVD88)

STATE OF NEW YORK SATYAJIT A. VAIDYA LICENSED PROFESSIONAL ENGINEER 089797-1

NAME 12/19/22 DATE

SATYAJIT A. VAIDYA, P.E
PROFESSIONAL ENGINEER N.Y. LIC. No. 089797-1

LANGAN
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NEW JERSEY NEW YORK VIRGINIA CALIFORNIA
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DUBAI ISTANBUL
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan

Project
280 WEST 155TH STREET DEVELOPMENT
NYSDEC BCP Site No.: C231138
BLOCK No. 2040, LOT No. 48
(Former Lots 48, 61 and 62)
MANHATTAN NEW YORK

Drawing Title
POST EXCAVATION SAMPLE LOCATION MAP AND ELEVATIONS

Project No.	100765102
Date	12/19/2022
Scale	1"=15'
Drawn By	IHB
Figure	5A

Path: \\langan.com\data\PAR\data\t1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figure 5A - Post Excavation Sample Location Map and Elevations.mxd Date: 12/19/2022 User: lbaker Time: 3:24:11 PM
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Location	PE-49
Sample Name	252_PE-49_20211210
Sample Date	12/10/2021
Sample Depth	11.5-12
VOCs	
Acetone	<0.01 U
Naphthalene	<0.0042 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.12 J
Acenaphthene	1.3
Anthracene	4
Benzo(a)anthracene	12
Benzo(a)pyrene	11
Benzo(b)fluoranthene	14
Benzo(k)fluoranthene	2.8
Chrysene	14
Dibenz(a,h)anthracene	1.5
Dibenzofuran	0.87
Fluoranthene	28
Fluorene	1.5
Indeno(1,2,3-cd)pyrene	7.3
Naphthalene	1.4
Phenanthrene	23
Phenol	0.052 J
Pyrene	29
Pesticides	
4,4'-DDD	<0.00192 U
4,4'-DDE	<0.00192 U
4,4'-DDT	<0.0036 U
Dieldrin	<0.0012 U
PCBs	
Total PCBs	<0.0388 U
Metals	
Arsenic	7.98
Barium	312
Cadmium	1.3
Chromium, Trivalent	30
Copper	80.5
Lead	566
Mercury	2.21
Nickel	21.8
Selenium	0.643 J
Silver	0.447 J
Zinc	508
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000789
Perfluorooctanoic Acid (PFOA)	0.0002 J

Location	PE-84
Sample Name	300_PE-84_20220119
Sample Date	1/19/2022
Sample Depth	4-4.5
VOCs	
Acetone	<0.012 UJ
Naphthalene	<0.0047 UJ
Total Xylenes	<0.0012 UJ
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.042 J
Acenaphthene	0.24
Anthracene	0.74
Benzo(a)anthracene	2
Benzo(a)pyrene	1.8
Benzo(b)fluoranthene	2.5
Benzo(k)fluoranthene	0.74
Chrysene	2.3
Dibenz(a,h)anthracene	0.24
Dibenzofuran	0.2
Fluoranthene	3.9
Fluorene	0.34
Indeno(1,2,3-cd)pyrene	1.2
Naphthalene	0.26
Phenanthrene	3.7
Phenol	<0.2 U
Pyrene	4
Pesticides	
4,4'-DDD	<0.000959 U
4,4'-DDE	0.00144
4,4'-DDT	0.00625
Dieldrin	<0.0006 U
PCBs	
Total PCBs	0.0176 J
Metals	
Arsenic	5.63
Barium	156
Cadmium	1.26
Chromium, Trivalent	42
Copper	65.5
Lead	317
Mercury	0.445
Nickel	19.9
Selenium	0.788 J
Silver	<0.961 U
Zinc	318
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000511
Perfluorooctanoic Acid (PFOA)	<0.000269 U

Location	PE-83
Sample Name	299_PE-83_20220119
Sample Date	1/19/2022
Sample Depth	4-4.5
VOCs	
Acetone	0.014
Naphthalene	0.0007 J
Total Xylenes	<0.0011 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.045 J
Acenaphthene	0.17
Anthracene	0.66
Benzo(a)anthracene	2.2
Benzo(a)pyrene	2
Benzo(b)fluoranthene	2.8
Benzo(k)fluoranthene	0.74
Chrysene	2.3
Dibenz(a,h)anthracene	0.28
Dibenzofuran	0.16 J
Fluoranthene	3.8
Fluorene	0.22
Indeno(1,2,3-cd)pyrene	1.4
Naphthalene	0.21
Phenanthrene	3.1
Phenol	<0.2 U
Pyrene	3.8
Pesticides	
4,4'-DDD	<0.00951 U
4,4'-DDE	<0.00951 U
4,4'-DDT	0.0353 J
Dieldrin	<0.00594 U
PCBs	
Total PCBs	0.0453
Metals	
Arsenic	7.22
Barium	265
Cadmium	1.54
Chromium, Trivalent	53
Copper	71
Lead	416
Mercury	0.662
Nickel	25.1 J
Selenium	1.08 J
Silver	<0.968 U
Zinc	370 J
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000492
Perfluorooctanoic Acid (PFOA)	<0.00027 U

Location	PE-51
Sample Name	258_PE-51_20211214
Sample Date	12/14/2021
Sample Depth	11.5-12
VOCs	
Acetone	0.0078 J
Naphthalene	<0.004 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.29 U
Acenaphthene	<0.16 U
Anthracene	<0.12 U
Benzo(a)anthracene	0.16
Benzo(a)pyrene	0.15 J
Benzo(b)fluoranthene	0.19
Benzo(k)fluoranthene	0.071 J
Chrysene	0.14
Dibenz(a,h)anthracene	0.026 J
Dibenzofuran	<0.2 U
Fluoranthene	0.26
Fluorene	<0.2 U
Indeno(1,2,3-cd)pyrene	0.093 J
Naphthalene	<0.2 U
Phenanthrene	0.092 J
Phenol	<0.2 U
Pyrene	0.24
Pesticides	
4,4'-DDD	<0.00194 U
4,4'-DDE	<0.00194 U
4,4'-DDT	<0.00364 U
Dieldrin	<0.00121 U
PCBs	
Total PCBs	<0.0385 U
Metals	
Arsenic	1.42
Barium	55.6
Cadmium	0.304 J
Chromium, Trivalent	12
Copper	23.9
Lead	1,610
Mercury	0.098
Nickel	14
Selenium	<1.9 U
Silver	<0.949 U
Zinc	63
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000176 J
Perfluorooctanoic Acid (PFOA)	<0.000266 U

Location	PE-52
Sample Name	259_PE-52_20211214
Sample Date	12/14/2021
Sample Depth	7-7.5
VOCs	
Acetone	<0.01 U
Naphthalene	<0.004 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<3 U
Acenaphthene	0.22 J
Anthracene	0.76 J
Benzo(a)anthracene	2.3
Benzo(a)pyrene	2.3
Benzo(b)fluoranthene	3
Benzo(k)fluoranthene	0.93 J
Chrysene	2.8
Dibenz(a,h)anthracene	0.32 J
Dibenzofuran	<2 U
Fluoranthene	5.6
Fluorene	0.25 J
Indeno(1,2,3-cd)pyrene	1.6
Naphthalene	0.3 J
Phenanthrene	4.2
Phenol	<2 U
Pyrene	5.5
Pesticides	
4,4'-DDD	0.0012 J
4,4'-DDE	0.00279
4,4'-DDT	<0.00359 U
Dieldrin	<0.0012 U
PCBs	
Total PCBs	0.0284 J
Metals	
Arsenic	3.8
Barium	268
Cadmium	0.681 J
Chromium, Trivalent	21
Copper	49.8
Lead	289
Mercury	0.738
Nickel	20.8
Selenium	<1.92 U
Silver	<0.959 U
Zinc	230
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000527
Perfluorooctanoic Acid (PFOA)	0.000104 J

Location	PE-42
Sample Name	244_PE-42_20211208
Sample Date	12/8/2021
Sample Depth	9-9.5
VOCs	
Acetone	<0.01 U
Naphthalene	<0.004 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.5 U
Acenaphthene	0.63 J
Anthracene	1.5
Benzo(a)anthracene	3.9
Benzo(a)pyrene	3.6
Benzo(b)fluoranthene	4.4
Benzo(k)fluoranthene	1.4
Chrysene	3.8
Dibenz(a,h)anthracene	0.55 J
Dibenzofuran	0.43 J
Fluoranthene	8.4
Fluorene	0.58 J
Indeno(1,2,3-cd)pyrene	2.3
Naphthalene	0.4 J
Phenanthrene	6.7
Phenol	<1 U
Pyrene	7.8
Pesticides	
4,4'-DDD	<0.00195 U
4,4'-DDE	<0.00195 U
4,4'-DDT	<0.00366 U
Dieldrin	<0.00122 U
PCBs	
Total PCBs	<0.0417 U
Metals	
Arsenic	5.26
Barium	120
Cadmium	0.662 J
Chromium, Trivalent	20
Copper	50.6
Lead	392
Mercury	1.43
Nickel	18.9
Selenium	0.506 J
Silver	<0.974 U
Zinc	182
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000281 U
Perfluorooctanoic Acid (PFOA)	0.000108 J

Location	PE-39
Sample Name	240_PE-39_20211207
Sample Date	12/7/2021
Sample Depth	8-8.5
VOCs	
Acetone	<0.0097 U
Naphthalene	<0.0039 U
Total Xylenes	<0.00097 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Acenaphthene	<0.15 U
Anthracene	0.055 J
Benzo(a)anthracene	0.23
Benzo(a)pyrene	0.25
Benzo(b)fluoranthene	0.3
Benzo(k)fluoranthene	0.11
Chrysene	0.23
Dibenz(a,h)anthracene	0.036 J
Dibenzofuran	<0.19 U
Fluoranthene	0.44
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	0.17
Naphthalene	<0.19 U
Phenanthrene	0.26
Phenol	<0.19 U
Pyrene	0.42
Pesticides	
4,4'-DDD	<0.00186 U
4,4'-DDE	<0.00186 U
4,4'-DDT	<0.00349 U
Dieldrin	<0.00116 U
PCBs	
Total PCBs	<0.0377 U
Metals	
Arsenic	3.57
Barium	79.3
Cadmium	0.346 J
Chromium, Trivalent	20
Copper	24.7
Lead	57.8
Mercury	0.436 J
Nickel	17.1
Selenium	<1.78 U
Silver	<0.888 U
Zinc	71.3
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00075
Perfluorooctanoic Acid (PFOA)	0.000047 J

Location	PE-40
Sample Name	241_PE-40_20211207
Sample Date	12/7/2021
Sample Depth	10-10.5
VOCs	
Acetone	0.019 J
Naphthalene	0.003 J
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.059 J
Acenaphthene	0.16
Anthracene	0.43
Benzo(a)anthracene	1.2
Benzo(a)pyrene	1.1
Benzo(b)fluoranthene	1.4
Benzo(k)fluoranthene	0.46
Chrysene	1.1
Dibenz(a,h)anthracene	0.16
Dibenzofuran	0.11 J
Fluoranthene	2.6
Fluorene	0.17 J
Indeno(1,2,3-cd)pyrene	0.82
Naphthalene	0.17 J
Phenanthrene	1.8
Phenol	<0.2 U
Pyrene	2.5
Pesticides	
4,4'-DDD	<0.00183 U
4,4'-DDE	<0.00183 U
4,4'-DDT	<0.00343 U
Dieldrin	<0.00114 U
PCBs	
Total PCBs	0.023 J
Metals	
Arsenic	6.71
Barium	138
Cadmium	0.618 J
Chromium, Trivalent	21
Copper	42.7
Lead	203
Mercury	1.19
Nickel	17.5
Selenium	<1.87 U
Silver	<0.936 U
Zinc	232
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000492
Perfluorooctanoic Acid (PFOA)	0.000062 J

Location	PE-36
Sample Name	236_PE-36_20211201
Sample Date	12/1/2021
Sample Depth	10-10.5
VOCs	
Acetone	<0.01 UJ
Naphthalene	<0.0042 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.29 U
Acenaphthene	0.11 J
Anthracene	0.19
Benzo(a)anthracene	0.53
Benzo(a)pyrene	0.48
Benzo(b)fluoranthene	0.61
Benzo(k)fluoranthene	0.19
Chrysene	0.51
Dibenz(a,h)anthracene	0.069 J
Dibenzofuran	0.089 J
Fluoranthene	1.3
Fluorene	0.11 J
Indeno(1,2,3-cd)pyrene	0.32
Naphthalene	0.071 J
Phenanthrene	1.3
Phenol	<0.2 U
Pyrene	1.1
Pesticides	
4,4'-DDD	<0.00186 U
4,4'-DDE	<0.00186 U
4,4'-DDT	<0.00349 U
Dieldrin	<0.00116 U
PCBs	
Total PCBs	<0.0385 U
Metals	
Arsenic	1.47
Barium	83.6
Cadmium	0.685 J
Chromium, Trivalent	24
Copper	28.1
Lead	60.9
Mercury	0.194
Nickel	19.8
Selenium	0.666 J
Silver	<0.965 U
Zinc	65.6
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.0005
Perfluorooctanoic Acid (PFOA)	<0.000293 U

Location	PE-37
Sample Name	237_PE-37_20211201
Sample Date	12/1/2021
Sample Depth	8-8.5
VOCs	
Acetone	<0.0093 UJ
Naphthalene	<0.0037 U
Total Xylenes	<0.00093 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Acenaphthene	0.15
Anthracene	0.45
Benzo(a)anthracene	1.4
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	1.5
Benzo(k)fluoranthene	0.54
Chrysene	1.2
Dibenz(a,h)anthracene	0.19
Dibenzofuran	0.13 J
Fluoranthene	2.4
Fluorene	0.18 J
Indeno(1,2,3-cd)pyrene	0.9
Naphthalene	0.2
Phenanthrene	1.7
Phenol	<0.19 U
Pyrene	2.2
Pesticides	
4,4'-DDD	<0.00178 U
4,4'-DDE	<0.00178 U
4,4'-DDT	<0.00334 U
Dieldrin	<0.00111 U
PCBs	
Total PCBs	0.0306 J
Metals	
Arsenic	1.58
Barium	112
Cadmium	0.531 J
Chromium, Trivalent	16
Copper	24.5
Lead	89.6
Mercury	0.468
Nickel	14
Selenium	0.757 J
Silver	<0.87 U
Zinc	70.9
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000329
Perfluorooctanoic Acid (PFOA)	<0.000266 U

Location	PE-30
Sample Name	229_PE-30_20211129
Sample Date	11/29/2021
Sample Depth	10-10.5
VOCs	
Acetone	<0.0092 U
Naphthalene	<0.0037 U
Total Xylenes	<0.00092 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Acenaphthene	<0.15 U
Anthracene	0.039 J
Benzo(a)anthracene	0.13
Benzo(a)pyrene	0.14 J
Benzo(b)fluoranthene	0.16
Benzo(k)fluoranthene	0.055 J
Chrysene	0.13
Dibenz(a,h)anthracene	<0.11 U
Dibenzofuran	<0.19 U
Fluoranthene	0.25
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	0.086 J
Naphthalene	0.025 J
Phenanthrene	0.15
Phenol	<0.19 U
Pyrene	0.26
Pesticides	
4,4'-DDD	<0.00178 U
4,4'-DDE	<0.00178 U
4,4'-DDT	<0.00334 U
Dieldrin	<0.00111 U
PCBs	
Total PCBs	<0.0373 U
Metals	
Arsenic	2.31
Barium	95
Cadmium	0.499 J
Chromium, Trivalent	15
Copper	31.8
Lead	182
Mercury	0.573
Nickel	14.8
Selenium	0.606 J
Silver	<0.891 U
Zinc	111
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000432
Perfluorooctanoic Acid (PFOA)	0.000055 J

Location	PE-41
Sample Name	242_PE-41_20211207
Sample Date	12/7/2021
Sample Depth	9-9.5
VOCs	
Acetone	<0.01 U
Naphthalene	0.0021 J
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.18 J
Acenaphthene	0.12 J
Anthracene	0.35
Benzo(a)anthracene	1
Benzo(a)pyrene	0.96
Benzo(b)fluoranthene	1.1
Benzo(k)fluoranthene	0.41
Chrysene	1
Dibenz(a,h)anthracene	0.14
Dibenzofuran	0.078 J
Fluoranthene	2.1
Fluorene	0.14 J
Indeno(1,2,3-cd)pyrene	0.71
Naphthalene	0.18 J
Phenanthrene	1.5
Phenol	<0.19 U
Pyrene	2.1
Pesticides	
4,4'-DDD	<0.00183 U
4,4'-DDE	<0.00183 U
4,4'-DDT	<0.00343 U
Dieldrin	<0.00114 U
PCBs	
Total PCBs	<0.0386 U
Metals	
Arsenic	5.36
Barium	161
Cadmium	0.589 J
Chromium, Trivalent	19
Copper	41.6
Lead	260
Mercury	1.15
Nickel	18.3
Selenium	0.266 J
Silver	<0.95 U
Zinc	190
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000205 J
Perfluorooctanoic Acid (PFOA)	<0.000286 U

Location	PE-47
Sample Name	250_PE-47_20211210
Sample Date	12/10/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	0.18
Anthracene	0.43
Benzo(a)anthracene	1.2
Benzo(a)pyrene	0.99
Benzo(b)fluoranthene	1.2
Benzo(k)fluoranthene	0.35
Chrysene	1.3
Dibenz(a,h)anthracene	0.14
Fluoranthene	2.4
Fluorene	0.17 J
Indeno(1,2,3-cd)pyrene	0.66
Naphthalene	0.13 J
Phenanthrene	2.2
Pyrene	2.6
Metals	
Arsenic	2.72
Barium	139
Cadmium	0.65 J
Copper	49.2
Lead	201
Mercury	1.14
Nickel	17.7
Selenium	<1.8 U
Silver	<0.902 U
Zinc	230

Location	PE-46
Sample Name	249_PE-46_20211210
Sample Date	12/10/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	3.7
Anthracene	8.5
Benzo(a)anthracene	15
Benzo(a)pyrene	11
Benzo(b)fluoranthene	14
Benzo(k)fluoranthene	4
Chrysene	16
Dibenz(a,h)anthracene	1.6 J
Fluoranthene	35
Fluorene	4.6
Indeno(1,2,3-cd)pyrene	6.6
Naphthalene	1.3 J
Phenanthrene	41
Pyrene	36
Metals	
Arsenic	3.11
Barium	172
Cadmium	0.571 J
Copper	51
Lead	219
Mercury	1.72
Nickel	17.3
Selenium	<1.94 U
Silver	<0.968 U
Zinc	173

Location	PE-86
Sample Name	302_PE-86_20220119
Sample Date	1/19/2022
Sample Depth	0-1
VOCs	
Acetone	<0.013 U
Naphthalene	<0.0052 U
Total Xylenes	<0.0013 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.5 U
Acenaphthene	0.17 J
Anthracene	0.9
Benzo(a)anthracene	5
Benzo(a)pyrene	5.2
Benzo(b)fluoranthene	7.2
Benzo(k)fluoranthene	2
Chrysene	6
Dibenz(a,h)anthracene	0.81
Dibenzofuran	0.23 J
Fluoranthene	11
Fluorene	0.32 J
Indeno(1,2,3-cd)pyrene	4.2
Naphthalene	0.43 J
Phenanthrene	5.1
Phenol	<1 U
Pyrene	11
Pesticides	
4,4'-DDD	<0.000962 U
4,4'-DDE	0.00118 J
4,4'-DDT	0.00516
Dieldrin	<0.000601 U
PCBs	
Total PCBs	0.0824 J
Metals	
Arsenic	4.65
Barium	248
Cadmium	1.24
Chromium, Trivalent	32
Copper	57.3
Lead	497
Mercury	0.298
Nickel	25.5
Selenium	0.336 J
Silver	<0.987 U
Zinc	382
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000582
Perfluorooctanoic Acid (PFOA)	<0.000293 U

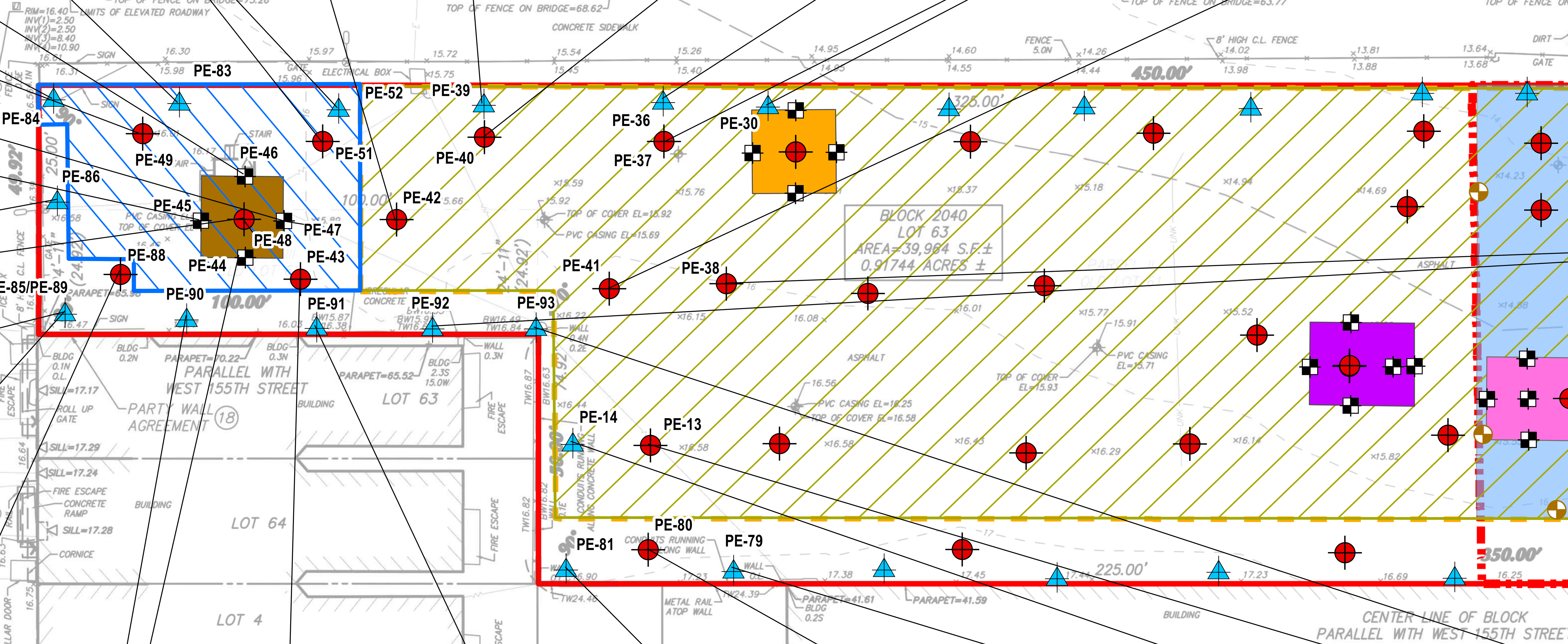
Location	PE-45
Sample Name	248_PE-45_20211210
Sample Date	12/10/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	0.48
Anthracene	0.84
Benzo(a)anthracene	2.9
Benzo(a)pyrene	2.8
Benzo(b)fluoranthene	3.4
Benzo(k)fluoranthene	1.1
Chrysene	3.1
Dibenz(a,h)anthracene	0.38
Fluoranthene	6.9
Fluorene	0.42
Indeno(1,2,3-cd)pyrene	1.9
Naphthalene	0.46
Phenanthrene	5.7
Pyrene	7
Metals	
Arsenic	3.17
Barium	258
Cadmium	0.791 J
Copper	45.5
Lead	706
Mercury	2.72
Nickel	17.1
Selenium	<1.95 U
Silver	<0.976 U
Zinc	790

Location	PE-38
Sample Name	238_PE-38_20211201
Sample Date	12/1/2021
Sample Depth	8-8.5
VOCs	
Acetone	0.011 J
Naphthalene	0.0017 J
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.084 J
Acenaphthene	0.14 J
Anthracene	0.35
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1.3
Benzo(k)fluoranthene	0.38
Chrysene	0.97
Dibenz(a,h)anthracene	0.16
Dibenzofuran	0.11 J
Fluoranthene	2
Fluorene	0.17 J
Indeno(1,2,3-cd)pyrene	0.78
Naphthalene	0.29
Phenanthrene	1.3
Phenol	<0.2 U
Pyrene	1.8
Pesticides	
4,4'-DDD	<0.00191 U
4,4'-DDE	<0.00191 U
4,4'-DDT	<0.00359 U
Dieldrin	<0.0012 U
PCBs	
Total PCBs	<0.0402 U
Metals	
Arsenic	3.36
Barium	101
Cadmium	0.722 J
Chromium, Trivalent	16
Copper	57.8
Lead	243
Mercury	1.07
Nickel	16.2
Selenium	2.31
Silver	<0.938 U
Zinc	125
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000273 U
Perfluorooctanoic Acid (PFOA)	<0.000273 U

Location	PE-48
Sample Name	251_PE-48_20211210
Sample Date	12/10/2021
Sample Depth	11.5-12
VOCs	
Acetone	0.013
Naphthalene	<0.0049 U
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.036 J
Acenaphthene	0.23
Anthracene	0.66
Benzo(a)anthracene	1.6
Benzo(a)pyrene	1.4
Benzo(b)fluoranthene	1.7
Benzo(k)fluoranthene	0.5
Chrysene	1.8
Dibenz(a,h)anthracene	0.2
Dibenzofuran	0.2 J
Fluoranthene	3.7
Fluorene	0.36
Indeno(1,2,3-cd)pyrene	0.9
Naphthalene	0.29
Phenanthrene	3.6
Phenol	<0.22 U
Pyrene	3.6
Pesticides	
4,4'-DDD	<0.00204 U
4,4'-DDE	<0.00204 U
4,4'-DDT	<0.00383 U
Dieldrin	<0.00128 U
PCBs	
Total PCBs	<0.0433 U
Metals	
Arsenic	2.88
Barium	128
Cadmium	0.435 J
Chromium, Trivalent	17
Copper	41
Lead	144
Mercury	0.789
Nickel	19.1
Selenium	<2.07 U
Silver	<1.04 U
Zinc	82.5
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000182 J
Perfluorooctanoic Acid (PFOA)	<0.000304 U

Location	PE-85
Sample Name	301_PE-85_20220119
Sample Date	1/19/2022
Sample Depth	0-1
VOCs	
Acetone	<0.011 UJ
Naphthalene	<0.0045 UJ
Total Xylenes	<0.0011 UJ
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.3 U
Acenaphthene	<0.17 U
Anthracene	0.051 J
Benzo(a)anthracene	0.24
Benzo(a)pyrene	0.25
Benzo(b)fluoranthene	0.33
Benzo(k)fluoranthene	0.13
Chrysene	0.26
Dibenz(a,h)anthracene	0.04 J
Dibenzofuran	<0.21 U
Fluoranthene	0.32
Fluorene	<0.21 U
Indeno(1,2,3-cd)pyrene	0.16 J
Naphthalene	<0.21 U
Phenanthrene	0.1 J
Phenol	<0.21 U
Pyrene	0.32
Pesticides	
4,4'-DDD	<0.00099 U
4,4'-DDE	<0.00099 U
4,4'-DDT	<0.00186 U
Dieldrin	<0.000619 U
PCBs	
Total PCBs	0.00802 J
Metals	
Arsenic	4.33
Barium	54.6
Cadmium	0.52 J
Chromium, Trivalent	15
Copper	33
Lead	68.5
Mercury	0.065 J
Nickel	13.7
Selenium	0.68 J
Silver	<1 U
Zinc	86.3
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000302 U
Perfluorooctanoic Acid (PFOA)	<0.000302 U

Location	PE-92
Sample Name	309_PE-92_20220121
Sample Date	1/21/2022
Sample Depth	0-1
VOCs	
Acetone	<0.011 U
Naphthalene	<0.0046 U
Total Xylenes	<0.0011 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Acenaphthene	<0.15 U
Anthracene	0.068 J
Benzo(a)anthracene	0.28
Benzo(a)pyrene	0.25
Benzo(b)fluoranthene	0.33
Benzo(k)fluoranthene	0.12
Chrysene	0.28
Dibenz(a,h)anthracene	0.039 J
Dibenzofuran	<0.19 U
Fluoranthene	0.47
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	0.16
Naphthalene	<0.19 U
Phenanthrene	0.19
Phenol	<0.19 U
Pyrene	0.43
Pesticides	
4,4'-DDD	<0.0177 U
4,4'-DDE	<0.0177 U
4,4'-DDT	<0.0332 U
Dieldrin	<0.011 U
PCBs	
Total PCBs	0.0243 J
Metals	
Arsenic	3.27
Barium	53.2
Cadmium	0.469 J
Chromium, Trivalent	280
Copper	66.4
Lead	112
Mercury	0.126
Nickel	104
Selenium	<1.77 U
Silver	<0.886 U
Zinc	90.9
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000259 U
Perfluorooctanoic Acid (PFOA)	<0.000259 U



Location	PE-89
Sample Name	306_PE-89_20220121
Sample Date	1/21/2022
Sample Depth	0-1
VOCs	
Acetone	<0.01 U
Naphthalene	<0.004 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	0.15
Anthracene	0.36
Benzo(a)anthracene	0.94
Benzo(a)pyrene	0.89
Benzo(b)fluoranthene	1.2
Benzo(k)fluoranthene	0.44
Chrysene	0.98
Dibenz(a,h)anthracene	0.16
Dibenzofuran	0.091 J
Fluoranthene	1.8
Fluorene	0.15 J
Indeno(1,2,3-cd)pyrene	0.66
Naphthalene	0.12 J
Phenanthrene	1.4
Phenol	<0.19 U
Pyrene	1.6
Pesticides	
4,4'-DDD	<0.0177 U
4,4'-DDE	<0.0177 U
4,4'-DDT	<0.0332 U
Dieldrin	<0.0111 U
PCBs	
Total PCBs	0.0191 J
Metals	
Arsenic	3.62
Barium	118
Cadmium	0.761 J
Chromium, Trivalent	93
Copper	57.2
Lead	170
Mercury	0.244
Nickel	43
Selenium	<1.83 U
Silver	<0.917 U
Zinc	175
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000179 J
Perfluorooctanoic Acid (PFOA)	0.000054 J

Location	PE-88
Sample Name	305_PE-88_20220121
Sample Date	1/21/2022
Sample Depth	0-1
VOCs	
Acetone	<0.014 U
Naphthalene	<0.0058 U
Total Xylenes	<0.0014 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.032 J
Acenaphthene	0.53
Anthracene	1.3
Benzo(a)anthracene	2.8
Benzo(a)pyrene	2.4
Benzo(b)fluoranthene	3.2
Benzo(k)fluoranthene	0.79
Chrysene	3
Dibenz(a,h)anthracene	0.4
Dibenzofuran	0.37
Fluoranthene	5
Fluorene	0.57
Indeno(1,2,3-cd)pyrene	1.6
Naphthalene	0.42
Phenanthrene	5
Phenol	<0.2 U
Pyrene	5
Pesticides	
4,4'-DDD	<0.0182 U
4,4'-DDE	<0.0182 U
4,4'-DDT	0.0503
Dieldrin	<0.0114 U
PCBs	
Total PCBs	0.0225 J
Metals	
Arsenic	5.4
Barium	182
Cadmium	1.9
Chromium, Trivalent	180
Copper	161
Lead	408
Mercury	0.7
Nickel	81.7
Selenium	<1.86 U
Silver	<0.93 U
Zinc	269
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00305
Perfluorooctanoic Acid (PFOA)	0.000201 J

Location	PE-90
Sample Name	307_PE-90_20220121
Sample Date	1/21/2022
Sample Depth	0-1
VOCs	
Acetone	0.018
Naphthalene	0.0014 J
Total Xylenes	<0.0011 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.068 J
Acenaphthene	0.88
Anthracene	2
Benzo(a)anthracene	5
Benzo(a)pyrene	4.2
Benzo(b)fluoranthene	5.2
Benzo(k)fluoranthene	1.7
Chrysene	4.8
Dibenz(a,h)anthracene	0.69
Dibenzofuran	0.61
Fluoranthene	7.4
Fluorene	0.87
Indeno(1,2,3-cd)pyrene	2.8
Naphthalene	0.61
Phenanthrene	7.5
Phenol	<0.2 U
Pyrene	7.6
Pesticides	
4,4'-DDD	<0.0184 U
4,4'-DDE	<0.0184 U
4,4'-DDT	<0.0346 U
Dieldrin	<0.0115 U
PCBs	
Total PCBs	<0.0401 U
Metals	
Arsenic	4.44
Barium	119
Cadmium	0.683 J
Chromium, Trivalent	48
Copper	48.1
Lead	283
Mercury	1.18
Nickel	24.4
Selenium	<1.82 U
Silver	<0.91 U
Zinc	169
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000174 J
Perfluorooctanoic Acid (PFOA)	0.000079 J

Location	PE-44
Sample Name	247_PE-44_20211210
Sample Date	12/10/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	0.55
Anthracene	0.91
Benzo(a)anthracene	1.4
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	1.4
Benzo(k)fluoranthene	0.5
Chrysene	1.4
Dibenz(a,h)anthracene	0.17
Fluoranthene	3.4
Fluorene	0.44
Indeno(1,2,3-cd)pyrene	0.7
Naphthalene	0.5
Phenanthrene	4.3
Pyrene	2.8
Metals	
Arsenic	2.17
Barium	102
Cadmium	0.39 J
Copper	41.4
Lead	79.3
Mercury	1.35
Nickel	19.9
Selenium	0.503 J
Silver	<1.03 U
Zinc	66.2

Location	PE-43
Sample Name	246_PE-43_20211210
Sample Date	12/10/2021
Sample Depth	11.5-12
VOCs	
Acetone	0.012
Naphthalene	<0.0047 U
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	1.2
Acenaphthene	0.022 J
Anthracene	<0.13 U
Benzo(a)anthracene	0.11 J
Benzo(a)pyrene	<0.17 U
Benzo(b)fluoranthene	0.13
Benzo(k)fluoranthene	<0.13 U
Chrysene	0.12 J
Dibenz(a,h)anthracene	<0.13 U
Dibenzofuran	0.02 J
Fluoranthene	0.25
Fluorene	0.023 J
Indeno(1,2,3-cd)pyrene	<0.17 U
Naphthalene	0.061 J
Phenanthrene	0.21
Phenol	<0.21 U
Pyrene	0.22
Pesticides	
4,4'-DDD	<0.002 U
4,4'-DDE	<0.002 U
4,4'-DDT	<0.00376 U
Dieldrin	<0.00125 U
PCBs	
Total PCBs	<0.0412 U
Metals	
Arsenic	2.82 J
Barium	104 J
Cadmium	0.396 J
Chromium, Trivalent	15
Copper	46 J
Lead	550 J
Mercury	4.62 J
Nickel	17.9 J
Selenium	0.426 J
Silver	<1.01 U
Zinc	83.6 J
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000312 U
Perfluorooctanoic Acid (PFOA)	<0.000312 U

Location	PE-91
Sample Name	308_PE-91_20220121
Sample Date	1/21/2022
Sample Depth	0-1
VOCs	
Acetone	<0.01 U
Naphthalene	<0.0042 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Acenaphthene	0.16
Anthracene	0.34
Benzo(a)anthracene	0.81
Benzo(a)pyrene	0.73
Benzo(b)fluoranthene	0.92
Benzo(k)fluoranthene	0.32
Chrysene	0.76
Dibenz(a,h)anthracene	0.12
Dibenzofuran	0.087 J
Fluoranthene	1.5
Fluorene	0.16 J
Indeno(1,2,3-cd)pyrene	0.52
Naphthalene	0.062 J
Phenanthrene	1.4
Phenol	<0.19 U
Pyrene	1.4
Pesticides	
4,4'-DDD	<0.0018 U
4,4'-DDE	<0.0018 U
4,4'-DDT	<0.00337 U
Dieldrin	<0.00112 U
PCBs	
Total PCBs	0.0212 J
Metals	
Arsenic	4.3
Barium	101
Cadmium	1.02
Chromium, Trivalent	130
Copper	157
Lead	142
Mercury	0.297
Nickel	57.4
Selenium	<1.77 U
Silver	<0.886 U
Zinc	196
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000317
Perfluorooctanoic Acid (PFOA)	<0.000266 U

Location	PE-81
Sample Name	297_PE-81_20220119
Sample Date	1/19/2022
Sample Depth	0-1
VOCs	
Acetone	<0.018 U
Naphthalene	0.009
Total Xylenes	<0.0018 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.34 U
Acenaphthene	0.67
Anthracene	1.1
Benzo(a)anthracene	2
Benzo(a)pyrene	1.6
Benzo(b)fluoranthene	2
Benzo(k)fluoranthene	0.8
Chrysene	1.8
Dibenz(a,h)anthracene	0.26
Dibenzofuran	0.4
Fluoranthene	3.5
Fluorene	0.59
Indeno(1,2,3-cd)pyrene	1.1
Naphthalene	0.62
Phenanthrene	3.8
Phenol	<0.24 U
Pyrene	3
Pesticides	
4,4'-DDD	<0.00222 U
4,4'-DDE	0.00345
4,4'-DDT	0.0161 J
Dieldrin	<0.00139 U
PCBs	
Total PCBs	<0.046 U
Metals	
Arsenic	4.49
Barium	115
Cadmium	0.765 J
Chromium, Trivalent	27
Copper	46.5
Lead	114
Mercury	0.312
Nickel	19.9
Selenium	0.295 J
Silver	<1.09 U
Zinc	110
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000182 J
Perfluorooctanoic Acid (PFOA)	<0.000316 U

Location	PE-80
Sample Name	296_PE-80_20220119
Sample Date	1/19/2022
Sample Depth	0-1
VOCs	
Acetone	<0.013 U
Naphthalene	<0.0054 U
Total Xylenes	<0.0013 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	0.057 J
Anthracene	0.39
Benzo(a)anthracene	1.7
Benzo(a)pyrene	1.8
Benzo(b)fluoranthene	2.2
Benzo(k)fluoranthene	0.84
Chrysene	1.7
Dibenz(a,h)anthracene	0.29
Dibenzofuran	0.047 J
Fluoranthene	2.4
Fluorene	0.081 J
Indeno(1,2,3-cd)pyrene	1.2
Naphthalene	0.13 J
Phenanthrene	0.92
Phenol	<0.19 U
Pyrene	2.4
Pesticides	
4,4'-DDD	<0.0174 U
4,4'-DDE	<0.0174 U
4,4'-DDT	0.0208 J
Dieldrin	<0.0109 U
PCBs	
Total PCBs	0.0128 J
Metals	
Arsenic	3.87
Barium	83.1
Cadmium	0.6 J
Chromium, Trivalent	50
Copper	41.7
Lead	105
Mercury	0.142
Nickel	27.4
Selenium	0.418 J
Silver	<0.91 U
Zinc	123
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000186 J
Perfluorooctanoic Acid (PFOA)	<0.000257 U

Location	PE-79
Sample Name	295_PE-79_20220119
Sample Date	1/19/2022
Sample Depth	0-1
VOCs	
Acetone	<0.015 U
Naphthalene	<0.0059 U
Total Xylenes	<0.0015 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.29 U
Acenaphthene	0.043 J
Anthracene	0.14
Benzo(a)anthracene	0.68
Benzo(a)pyrene	0.68
Benzo(b)fluoranthene	0.85
Benzo(k)fluoranthene	0.29
Chrysene	0.7
Dibenz(a,h)anthracene	0.11 J
Dibenzofuran	0.027 J
Fluoranthene	1.2
Fluorene	0.03 J
Indeno(1,2,3-cd)pyrene	0.52
Naphthalene	0.045 J
Phenanthrene	0.67
Phenol	<0.2 U
Pyrene	1.1
Pesticides	
4,4'-DDD	<0.00197 U
4,4'-DDE	<0.00197 U
4,4'-DDT	<0.00369 U
Dieldrin	<0.00123 U
PCBs	
Total PCBs	<0.0418 U
Metals	
Arsenic	2.86
Barium	84.6
Cadmium	0.602 J
Chromium, Trivalent	21
Copper	26.4
Lead	70.5
Mercury	0.175
Nickel	17.3
Selenium	<1.97 U
Silver	<0.987 U
Zinc	87.4
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000277 U
Perfluorooctanoic Acid (PFOA)	<0.000277 U

Location	PE-14
Sample Name	205_PE-14_20211105
Sample Date	11/5/2021
Sample Depth	10-10.5
VOCs	
Acetone	<0.011 U
Naphthalene	<0.0045 U
Total Xylenes	<0.0011 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.087 J
Acenaphthene	0.89
Anthracene	2.4
Benzo(a)anthracene	5.7
Benzo(a)pyrene	6.2
Benzo(b)fluoranthene	7
Benzo(k)fluoranthene	2.5
Chrysene	5.6
Dibenz(a,h)anthracene	1.2
Dibenzofuran	0.59
Fluoranthene	9.8
Fluorene	0.77
Indeno(1,2,3-cd)pyrene	4.6
Naphthalene	1
Phenanthrene	7.6
Phenol	0.057 J
Pyrene	9
Pesticides	
4,4'-DDD	<0.00177 UJ
4,4'-DDE	<0.00177 U
4,4'-DDT	0.0135 J
Dieldrin	<0.00111 UJ
PCBs	
Total PCBs	0.121 J
Metals	
Arsenic	4.34
Barium	219
Cadmium	0.627 J
Chromium, Trivalent	40
Copper	61.3
Lead	385
Mercury	0.737
Nickel	29.3
Selenium	0.761 J
Silver	<0.896 U
Zinc	350
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000933
Perfluorooctanoic Acid (PFOA)	0.000057 J

Location	PE-13
Sample Name	204_PE-13_20211105
Sample Date	11/5/2021
Sample Depth	7.5-8
VOCs	
Acetone	0.016
Naphthalene	<0.0041 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.29 U
Acenaphthene	0.17
Anthracene	0.45
Benzo(a)anthracene	1.2
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	1.5
Benzo(k)fluoranthene	0.5
Chrysene	1.1
Dibenz(a,h)anthracene	0.23
Dibenzofuran	0.12 J
Fluoranthene	2.4
Fluorene	0.16 J
Indeno(1,2,3-cd)pyrene	0.9
Naphthalene	0.21
Phenanthrene	1.7
Phenol	<0.2 U
Pyrene	2.1
Pesticides	
4,4'-DDD	0.00194 J
4,4'-DDE	<0.00188 U
4,4'-DDT	0.00422 J
Dieldrin	<0.00117 UJ
PCBs	
Total PCBs	0.0127 J
Metals	
Arsenic	4.54
Barium	247
Cadmium	0.688 J
Chromium, Trivalent	21
Copper	88.4
Lead	523
Mercury	0.641
Nickel	19.8
Selenium	1.13 J
Silver	0.358 J
Zinc	420
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000516
Perfluorooctanoic Acid (PFOA)	0.000148 J

Location	PE-93
Sample Name	310_PE-93_20220121
Sample Date	1/21/2022
Sample Depth	0-1
VOCs	
Acetone	0.042
Naphthalene	<0.0048 U
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.29 U
Acenaphthene	0.064 J
Anthracene	0.18
Benzo(a)anthracene	0.46
Benzo(a)pyrene	0.43
Benzo(b)fluoranthene	0.56
Benzo(k)fluoranthene	0.17
Chrysene	0.48
Dibenz(a,h)anthracene	0.065 J
Dibenzofuran	0.046 J
Fluoranthene	0.95
Fluorene	0.082 J
Indeno(1,2,3-cd)pyrene	0.3
Naphthalene	0.11 J
Phenanthrene	0.66
Phenol	<0.2 U
Pyrene	0.9
Pesticides	
4,4'-DDD	<0.0019 U
4,4'-DDE	0.00397
4,4'-DDT	<0.00356 U
Dieldrin	<0.00119 U
PCBs	
Total PCBs	0.0373 J
Metals	
Arsenic	5.45
Barium	77.4
Cadmium	0.485 J
Chromium, Trivalent	180
Copper	66
Lead	325
Mercury	0.994
Nickel	75.8
Selenium	<1.86 U
Silver	<0.933 U
Zinc	110
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000286 U
Perfluorooctanoic Acid (PFOA)	<0.000286 U

Analyte	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs
VOCs			
Acetone	0.05	0.05	500
Naphthalene	12	12	500
Total Xylenes	0.26	1.6	500
SVOCs			
3 & 4 Methylphenol (m&p Cresol)	0.33	0.33	500
Acenaphthene	20	98	500
Anthracene	100	1000	500
Benzo(a)anthracene	1	1	5.6
Benzo(a)pyrene	1	22	1
Benzo(b)fluoranthene	1	1.7	5.6
Benzo(k)fluoranthene	0.8	1.7	56
Chrysene	1	1	56
Dibenz(a,h)anthracene	0.33	1000	0.56
Dibenzofuran	7	210	350
Fluoranthene	100	1000	500
Fluorene	30	386	500
Indeno(1,2,3-cd)pyrene	0.5	8.2	5.6
Naphthalene	12	12	500
Phenanthrene	100	1000	500
Phenol	0.33	0.33	500
Pyrene	100	1000	500
Pesticides			
4,4'-DDD	0.0033	14	92
4,4'-DDE	0.0033	17	62
4,4'-DDT	0.0033	136	47
Dieldrin	0.005	0.1	1.4
PCBs			
Total PCBs	0.1	3.2	1
Metals			
Arsenic	13	16	16
Barium	350	820	400
Cadmium	2.5	7.5	9.3
Chromium, Trivalent	30		1500
Copper	50	1720	270
Lead	63	450	1000
Mercury	0.18	0.73	2.8
Nickel	30	130	310
Selenium	3.9	4	1500
Silver	2	8.3	1500
Zinc	109	2480	10000
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.00088	0.0037	0.44
Perfluorooctanoic Acid (PFOA)	0.00066	0.0011	0.5

Exceedance Summary:
10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Legend

- Bottom Documentation Samples
- Hot Spot Documentation Samples
- Perimeter Documentation Samples
- Spill No. 1902392 Documentation Samples
- Site Boundary
- Cellar Footprint
- AOC-1 Extents
- Excavation up to approximately 12 feet below ground surface (bgs) for remediation of Spill no.1902392
- Excavation between approximately 4 and 15 feet bgs for installation of stormwater detention tanks
- Excavation to between approximately 5 and 10 feet bgs throughout (el 7 feet NAVD88) for construction of the cellar
- Excavation to between approximately 11.5 to 15 feet bgs for stormwater tank installation and remediation of PAHs and metals (LSB-36)
- Excavation to approximately 15 feet bgs for remediation of PAHs (LSB-37)
- Excavation to approximately 15 feet bgs for remediation of metals (LSB-39)
- Excavation to approximately 7 feet bgs for remediation of metals (LSB-40)

0 15 30
SCALE IN FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Notes:
1. Site boundary from Topographic, Boundary, and Utility Survey prepared by Langan dated 19 August 2020.
2. Cellar Footprint shown according to Cellar Slab. As Built Top of Slab prepared by StructureTech dated 29 April 2022.
3. Sample locations were collected using field measurements taken from the nearest property line.

LANGAN
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Collectively known as Langan

Project
280 WEST 155TH STREET DEVELOPMENT
NYSDEC BCP Site No.: C231138
BLOCK No. 2040, LOT No. 48
(Former Lots 48, 61 and 62)
MANHATTAN NEW YORK

Drawing Title
POST EXCAVATION AND DELINEATION SAMPLING ANALYTICAL RESULTS -WEST

Project No.	100765102
Date	12/19/2022
Scale	1"=15'
Drawn By	IHB
Figure	5B

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Path: \\langan.com\data\PAR\data1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figure 5B - PE and Delineation Sampling Map West.mxd Date: 12/19/2022 User: ibaker Time: 4:06:27 PM

Location	PE-21
Sample Name	217_PE-21_20211119
Sample Date	11/19/2021
Sample Depth	8-8.5
VOCs	
Acetone	<0.01 U
Naphthalene	<0.004 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.035 J
Acenaphthene	0.14 J
Anthracene	0.35
Benzo(a)anthracene	0.85
Benzo(a)pyrene	0.85
Benzo(b)fluoranthene	0.98
Benzo(k)fluoranthene	0.31
Chrysene	0.83
Dibenz(a,h)anthracene	0.1 J
Dibenzofuran	0.083 J
Fluoranthene	1.8
Fluorene	0.16 J
Indeno(1,2,3-cd)pyrene	0.5
Naphthalene	0.1 J
Phenanthrene	1.3
Phenol	<0.2 U
Pyrene	1.8
Pesticides	
4,4'-DDD	<0.00187 U
4,4'-DDE	<0.00187 U
4,4'-DDT	<0.0035 U
Dieldrin	<0.00117 U
PCBs	
Total PCBs	0.00526 J
Metals	
Arsenic	2.96
Barium	107
Cadmium	0.525 J
Chromium, Trivalent	18
Copper	34.8
Lead	194
Mercury	0.313
Nickel	17.1
Selenium	0.561 J
Silver	<0.904 U
Zinc	109
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000514
Perfluorooctanoic Acid (PFOA)	0.000061 J

Location	PE-20
Sample Name	216_PE-20_20211119
Sample Date	11/19/2021
Sample Depth	8-8.5
VOCs	
Acetone	<0.0089 U
Naphthalene	<0.0036 U
Total Xylenes	<0.00089 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.82 U
Acenaphthene	0.15 J
Anthracene	0.49
Benzo(a)anthracene	2
Benzo(a)pyrene	1.9
Benzo(b)fluoranthene	2.3
Benzo(k)fluoranthene	0.68
Chrysene	2
Dibenz(a,h)anthracene	0.25 J
Dibenzofuran	0.14 J
Fluoranthene	3.8
Fluorene	0.19 J
Indeno(1,2,3-cd)pyrene	1.1
Naphthalene	0.17 J
Phenanthrene	2.1
Phenol	<0.57 U
Pyrene	3.6
Pesticides	
4,4'-DDD	<0.00178 U
4,4'-DDE	<0.00178 U
4,4'-DDT	<0.00334 U
Dieldrin	<0.00111 U
PCBs	
Total PCBs	<0.0381 U
Metals	
Arsenic	1.78
Barium	75.5
Cadmium	0.515 J
Chromium, Trivalent	18
Copper	24
Lead	60
Mercury	0.432
Nickel	15.6
Selenium	<1.78 U
Silver	<0.888 U
Zinc	55.9
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000603
Perfluorooctanoic Acid (PFOA)	<0.000265 U

Location	PE-35
Sample Name	231_PE-35_20211201
Sample Date	12/1/2021
Sample Depth	15-15.5
VOCs	
Acetone	0.13 J
Naphthalene	0.021
Total Xylenes	0.0052 J
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	1.4 J
Acenaphthene	16
Anthracene	16
Benzo(a)anthracene	8.2
Benzo(a)pyrene	6.7
Benzo(b)fluoranthene	7.8
Benzo(k)fluoranthene	2.9
Chrysene	7.7
Dibenz(a,h)anthracene	0.88 J
Dibenzofuran	16
Fluoranthene	28
Fluorene	18
Indeno(1,2,3-cd)pyrene	3.7
Naphthalene	78
Phenanthrene	55
Phenol	<3.1 U
Pyrene	22
Pesticides	
4,4'-DDD	<0.00298 U
4,4'-DDE	<0.00298 U
4,4'-DDT	<0.00559 U
Dieldrin	<0.00186 U
PCBs	
Total PCBs	0.0476 J
Metals	
Arsenic	95.7 J
Barium	141 J
Cadmium	5.57 J
Chromium, Trivalent	24
Copper	6,990 J
Lead	1,840
Mercury	2.9 J
Nickel	106 J
Selenium	3.9 J
Silver	11.4 J
Zinc	1,330 J
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000426 U
Perfluorooctanoic Acid (PFOA)	<0.000426 U

Location	LSB-39A
Sample Name	159_LSB-39A_14.0-16.0
Sample Date	6/16/2021
Sample Depth	14-16
Metals	
Arsenic	4.58
Barium	61.7
Cadmium	0.494 J
Chromium, Trivalent	12
Copper	28.8
Lead	137
Mercury	1.73
Nickel	28.1
Selenium	<1.94 U
Silver	<0.969 U
Zinc	98.7

Location	PE-19
Sample Name	214_PE-19_20211118
Sample Date	11/18/2021
Sample Depth	8-8.5
VOCs	
Acetone	<0.0088 U
Naphthalene	<0.0035 U
Total Xylenes	<0.00088 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	<0.16 U
Anthracene	<0.12 U
Benzo(a)anthracene	0.035 J
Benzo(a)pyrene	<0.16 U
Benzo(b)fluoranthene	0.039 J
Benzo(k)fluoranthene	<0.12 U
Chrysene	0.031 J
Dibenz(a,h)anthracene	<0.12 U
Dibenzofuran	<0.19 U
Fluoranthene	0.051 J
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	<0.16 U
Naphthalene	<0.19 U
Phenanthrene	0.032 J
Phenol	<0.19 U
Pyrene	0.055 J
Pesticides	
4,4'-DDD	<0.00186 U
4,4'-DDE	<0.00186 U
4,4'-DDT	<0.00349 U
Dieldrin	<0.00116 U
PCBs	
Total PCBs	<0.0392 U
Metals	
Arsenic	2.64
Barium	90.5
Cadmium	0.305 J
Chromium, Trivalent	19
Copper	31.2
Lead	104
Mercury	0.296
Nickel	16.9
Selenium	<1.85 U
Silver	<0.925 U
Zinc	78.4
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000714
Perfluorooctanoic Acid (PFOA)	<0.000276 U

Location	PE-18
Sample Name	213_PE-18_20211118
Sample Date	11/18/2021
Sample Depth	8-8.5
VOCs	
Acetone	0.015 J
Naphthalene	0.025 J
Total Xylenes	<0.00099 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.4 U
Acenaphthene	0.33 J
Anthracene	0.78
Benzo(a)anthracene	2.5
Benzo(a)pyrene	2.3
Benzo(b)fluoranthene	2.6
Benzo(k)fluoranthene	0.96
Chrysene	2.6
Dibenz(a,h)anthracene	0.31 J
Dibenzofuran	0.26 J
Fluoranthene	4.9
Fluorene	0.56 J
Indeno(1,2,3-cd)pyrene	1.4
Naphthalene	0.3 J
Phenanthrene	3.6
Phenol	<0.99 U
Pyrene	4.7
Pesticides	
4,4'-DDD	<0.0183 U
4,4'-DDE	<0.0183 U
4,4'-DDT	<0.0343 U
Dieldrin	<0.0114 U
PCBs	
Total PCBs	<0.0394 U
Metals	
Arsenic	3.19
Barium	82.3
Cadmium	0.636 J
Chromium, Trivalent	16
Copper	42.6
Lead	181
Mercury	0.583
Nickel	17.9
Selenium	0.415 J
Silver	0.774 J
Zinc	213
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.0006
Perfluorooctanoic Acid (PFOA)	0.000088 J

Location	PE-23
Sample Name	220_PE-23_20211124
Sample Date	11/24/2021
Sample Depth	9-9.5
VOCs	
Acetone	<0.01 U
Naphthalene	0.0064
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.4 U
Acenaphthene	0.34 J
Anthracene	0.67
Benzo(a)anthracene	0.86
Benzo(a)pyrene	0.68 J
Benzo(b)fluoranthene	0.83
Benzo(k)fluoranthene	0.29 J
Chrysene	0.8
Dibenz(a,h)anthracene	0.11 J
Dibenzofuran	0.23 J
Fluoranthene	1.9
Fluorene	0.31 J
Indeno(1,2,3-cd)pyrene	0.41 J
Naphthalene	0.19 J
Phenanthrene	2.3
Phenol	<0.98 U
Pyrene	1.6
Pesticides	
4,4'-DDD	<0.00185 U
4,4'-DDE	<0.00185 U
4,4'-DDT	<0.00348 U
Dieldrin	<0.00116 U
PCBs	
Total PCBs	<0.0377 U
Metals	
Arsenic	6.38
Barium	127
Cadmium	1.69
Chromium, Trivalent	14
Copper	50.6
Lead	423
Mercury	0.636
Nickel	24.5
Selenium	2.31
Silver	<0.926 U
Zinc	186
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000918
Perfluorooctanoic Acid (PFOA)	0.000127 J

Location	LSB-67	LSB-67
Sample Name	161_LSB-67_12.0-14.0	164_DUP-4
Sample Date	6/16/2021	6/16/2021
Sample Depth	12-14	12-14
Metals		
Arsenic	9.04 J	4.53 J
Barium	119 J	68.1 J
Cadmium	0.541 J	0.37 J
Chromium, Trivalent	15 J	8.2 J
Copper	50.4 J	27 J
Lead	237 J	96.3 J
Mercury	0.61 J	0.359 J
Nickel	15.9	10.5
Selenium	<2.12 U	1.13 J
Silver	<1.06 U	<1.06 U
Zinc	198 J	76.7 J

Location	PE-31
Sample Name	232_PE-31_20211201
Sample Date	12/1/2021
Sample Depth	15-15.5
Metals	
Arsenic	17.9
Barium	84.5
Cadmium	0.741 J
Copper	58.4
Lead	251
Mercury	2.78
Nickel	21.7
Selenium	1.56 J
Silver	<1.48 U
Zinc	96.9

Location	PE-102	PE-102
Sample Name	326_PE-102_20220216	327_DUP-6
Sample Date	2/16/2022	2/16/2022
Sample Depth	7-7.5	7-7.5
VOCs		
Acetone	0.049	0.032
Naphthalene	0.016 J	0.0069 J
Total Xylenes	<0.001 U	<0.0011 U
SVOCs		
3 & 4 Methylphenol (m&p Cresol)	<0.29 U	0.04 J
Acenaphthene	0.21	0.46
Anthracene	0.37 J	0.81 J
Benzo(a)anthracene	0.82 J	1.5 J
Benzo(a)pyrene	0.74 J	1.3 J
Benzo(b)fluoranthene	0.84 J	1.5 J
Benzo(k)fluoranthene	0.27	0.44
Chrysene	0.79 J	1.4 J
Dibenz(a,h)anthracene	0.079 J	0.15
Dibenzofuran	0.16 J	0.29
Fluoranthene	1.9 J	3.5 J
Fluorene	0.24	0.43
Indeno(1,2,3-cd)pyrene	0.4 J	0.77 J
Naphthalene	0.15 J	0.3
Phenanthrene	1.9 J	3.6 J
Phenol	<0.2 U	<0.2 U
Pyrene	1.6 J	2.9 J
Pesticides		
4,4'-DDD	<0.00192 U	<0.00187 U
4,4'-DDE	<0.00192 U	<0.00187 U
4,4'-DDT	<0.0036 U	<0.00351 U
Dieldrin	<0.0012 U	<0.00117 U
PCBs		
Total PCBs	<0.0397 U	<0.0379 U
Metals		
Arsenic	1.73	1.69
Barium	96.5 J	193 J
Cadmium	0.485 J	0.471 J
Chromium, Trivalent	21	23
Copper	26.7	24.4
Lead	41.3 J	39.6
Mercury	0.122 J	0.067 J
Nickel	17.1	19.3
Selenium	<1.86 U	<1.81 U
Silver	<0.932 U	<0.907 U
Zinc	55.1	48
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	<0.000281 U	<0.000275 U
Perfluorooctanoic Acid (PFOA)	<0.000281 U	<0.000275 U

Location	PE-103
Sample Name	328_PE-103_20220216
Sample Date	2/16/2022
Sample Depth	7-7.5
VOCs	
Acetone	0.024 J
Naphthalene	0.013 J
Total Xylenes	0.0032 J
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.18 J
Acenaphthene	0.86
Anthracene	1.5
Benzo(a)anthracene	3
Benzo(a)pyrene	2.7
Benzo(b)fluoranthene	3.1
Benzo(k)fluoranthene	0.63
Chrysene	2.8
Dibenz(a,h)anthracene	0.3
Dibenzofuran	0.67
Fluoranthene	5.8
Fluorene	1.2
Indeno(1,2,3-cd)pyrene	1.7
Naphthalene	1.2
Phenanthrene	6
Phenol	0.11 J
Pyrene	5.3
Pesticides	
4,4'-DDD	<0.0184 U
4,4'-DDE	<0.0184 U
4,4'-DDT	<0.0345 U
Dieldrin	<0.0115 U
PCBs	
Total PCBs	<0.0393 U
Metals	
Arsenic	4.27
Barium	98.4
Cadmium	0.678 J
Chromium, Trivalent	15
Copper	55.3
Lead	190
Mercury	0.546
Nickel	14.6
Selenium	0.353 J
Silver	<0.929 U
Zinc	148
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000263 J
Perfluorooctanoic Acid (PFOA)	0.00005 J

Location	PE-99
Sample Name	322_99_20220203
Sample Date	2/3/2022
Sample Depth	12-12.5
VOCs	
Acetone	0.0094 J
Naphthalene	0.0015 J
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.054 J
Acenaphthene	0.58
Anthracene	0.76
Benzo(a)anthracene	1.3
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1.2
Benzo(k)fluoranthene	0.34
Chrysene	1.4
Dibenz(a,h)anthracene	0.14
Dibenzofuran	0.43
Fluoranthene	3
Fluorene	0.64
Indeno(1,2,3-cd)pyrene	0.59
Naphthalene	0.58
Phenanthrene	4
Phenol	0.034 J
Pyrene	2.8
Pesticides	
4,4'-DDD	<0.00186 U
4,4'-DDE	<0.00186 U
4,4'-DDT	<0.00349 U
Dieldrin	<0.00116 U
PCBs	
Total PCBs	<0.0391 U
Metals	
Arsenic	8.65
Barium	128
Cadmium	0.678 J
Chromium, Trivalent	13
Copper	22.2
Lead	2,530
Mercury	0.395
Nickel	16.6
Selenium	1.32 J
Silver	<0.929 U
Zinc	552
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000288 U
Perfluorooctanoic Acid (PFOA)	<0.000288 U

Location	PE-104
Sample Name	329_PE-104_20220216
Sample Date	2/16/2022
Sample Depth	6-6.5
VOCs	
Acetone	0.027
Naphthalene	0.0099
Total Xylenes	0.0072
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.24 J
Acenaphthene	1.6
Anthracene	2.1
Benzo(a)anthracene	3.7
Benzo(a)pyrene	3.7
Benzo(b)fluoranthene	4.1
Benzo(k)fluoranthene	0.8
Chrysene	3.4
Dibenz(a,h)anthracene	0.44
Dibenzofuran	1.2
Fluoranthene	9.2
Fluorene	1.6
Indeno(1,2,3-cd)pyrene	2.4
Naphthalene	1.9
Phenanthrene	6.9
Phenol	0.11 J
Pyrene	7.3
Pesticides	
4,4'-DDD	<0.00191 U
4,4'-DDE	<0.00191 U
4,4'-DDT	<0.00358 U
Dieldrin	<0.00119 U
PCBs	
Total PCBs	<0.039 U
Metals	
Arsenic	4.87
Barium	95.6
Cadmium	0.744 J
Chromium, Trivalent	15
Copper	54.8
Lead	155
Mercury	0.802
Nickel	13.7
Selenium	0.772 J
Silver	<0.93 U
Zinc	166
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000187 J
Perfluorooctanoic Acid (PFOA)	<0.000287 U

Location	PE-101
Sample Name	324_PE-101_20220209
Sample Date	2/9/2022
Sample Depth	12-12.5
VOCs	
Naphthalene	<0.0066 U
Total Xylenes	<0.0016 U
SVOCs	
Acenaphthene	<0.22 U
Anthracene	<0.16 U
Benzo(a)anthracene	0.052 J
Benzo(a)pyrene	<0.22 U
Benzo(b)fluoranthene	0.07 J
Benzo(k)fluoranthene	<0.16 U
Chrysene	0.042 J
Dibenz(a,h)anthracene	<0.16 U
Fluoranthene	0.051 J
Fluorene	<0.28 U
Indeno(1,2,3-cd)pyrene	0.043 J
Naphthalene	0.044 J
Phenanthrene	0.062 J
Pyrene	0.049 J

Location	PE-29	PE-29
Sample Name	227_PE-29_20211129	228_DUP-2
Sample Date	11/29/2021	11/29/2021
Sample Depth	15-15.5	15-15.5
VOCs		
Acetone	0.018	0.012
Naphthalene	0.00074 J	<0.0036 U
Total Xylenes	<0.00092 U	<0.00089 U
SVOCs		
3 & 4 Methylphenol (m&p Cresol)	<0.29 U	<0.28 U
Acenaphthene	<0.16 U	<0.15 U
Anthracene	<0.12 U	<0.12 U
Benzo(a)anthracene	0.044 J	<0.12 U
Benzo(a)pyrene	<0.16 U	<0.15 U
Benzo(b)fluoranthene	0.049 J	<0.12 U
Benzo(k)fluoranthene	<0.12 U	<0.12 U
Chrysene	0.04 J	<0.12 U
Dibenz(a,h)anthracene	<0.12 U	<0.12 U
Dibenzofuran	<0.2 U	<0.19 U
Fluoranthene	0.063 J	<0.12 U
Fluorene	<0.2 U	<0.19 U
Indeno(1,2,3-cd)pyrene	0.028 J	<0.15 U
Naphthalene	0.042 J	<0.19 U
Phenanthrene	0.049 J	<0.12 U
Phenol	<0.2 U	<0.19 U
Pyrene	0.065 J	<0.12 U
Pesticides		
4,4'-DDD	<0.00194 U	<0.00185 U
4,4'-DDE	<0.00194 U	<0.00185 U
4,4'-DDT	<0.00364 U	<0.00347 U
Dieldrin	<0.00121 U	<0.00116 U
PCBs		
Total PCBs	<0.0385 U	<0.039 U
Metals		
Arsenic	1.13	1.01
Barium	94.9	88.8
Cadmium	0.499 J	0.534 J
Chromium, Trivalent	19	19
Copper	25.1	25.1
Lead	41.6 J	22.6 J
Mercury	0.217	0.098
Nickel	17.5	17.8
Selenium	0.432 J	0.407 J
Silver	<0.96 U	<0.904 U
Zinc	46.3	41.1
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	<0.00027 U	<0.00026 U
Perfluorooctanoic Acid (PFOA)	<0.00027 U	<0.00026 U

Location	LSB-59	LSB-59
Sample Name	133_LSB-59_12.0-14.0	136_DUP-3
Sample Date	6/15/2021	6/15/2021
Sample Depth	12-14	12-14
SVOCs		
Acenaphthene	<0.16 U	<0.16 U
Anthracene	<0.12 U	<0.12 U
Benzo(a)anthracene	0.042 J	0.039 J
Benzo(a)pyrene	<0.16 U	<0.16 U
Benzo(b)fluoranthene	0.041 J	0.04 J
Benzo(k)fluoranthene	<0.12 U	<0.12 U
Chrysene	0.036 J	0.036 J
Dibenz(a,h)anthracene	<0.12 U	<0.12 U
Fluoranthene	0.068 J	0.07 J
Fluorene	<0.2 U	<0.2 U
Indeno(1,2,3-cd)pyrene	<0.16 U	<0.16 U
Naphthalene	<0.2 U	<0.2 U
Phenanthrene	0.036 J	0.039 J
Pyrene	0.062 J	0.063 J

Location	PE-25
Sample Name	223_PE-25_20211129
Sample Date	11/29/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	0.022 J
Anthracene	<0.13 U
Benzo(a)anthracene	<0.13 U
Benzo(a)pyrene	<0.17 U
Benzo(b)fluoranthene	<0.13 U
Benzo(k)fluoranthene	<0.13 U
Chrysene	<0.13 U
Dibenz(a,h)anthracene	<0.13 U
Fluoranthene	0.036 J
Fluorene	<0.22 U
Indeno(1,2,3-cd)pyrene	<0.17 U
Naphthalene	0.079 J
Phenanthrene	0.03 J
Pyrene	0.04 J

Location	LSB-37A
Sample Name	131_LSB-37A_14.0-16.0
Sample Date	6/15/2021
Sample Depth	14-16
SVOCs	
Acenaphthene	1.6
Anthracene	2.4
Benzo(a)anthracene	3.6
Benzo(a)pyrene	3.3
Benzo(b)fluoranthene	4
Benzo(k)fluoranthene	1.2
Chrysene	3.3
Dibenz(a,h)anthracene	0.5
Fluoranthene	7.3
Fluorene	1.5
Indeno(1,2,3-cd)pyrene	1.9
Naphthalene	1.2
Phenanthrene	11
Pyrene	6.4

Location	LSB-62
Sample Name	143_LSB-62_12.0-14.0
Sample Date	6/15/2021
Sample Depth	12-14
SVOCs	
Acenaphthene	2.3
Anthracene	4.1
Benzo(a)anthracene	4.9
Benzo(a)pyrene	4.2
Benzo(b)fluoranthene	4.9
Benzo(k)fluoranthene	1.4
Chrysene	4.3
Dibenz(a,h)anthracene	0.58
Fluoranthene	13
Fluorene	2.4
Indeno(1,2,3-cd)pyrene	2.2
Naphthalene	1.5
Phenanthrene	16
Pyrene	11

Location	PE-27
Sample Name	225_PE-27_20211129
Sample Date	11/29/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	0.021 J
Anthracene	<0.12 U
Benzo(a)anthracene	0.064 J
Benzo(a)pyrene	0.053 J
Benzo(b)fluoranthene	0.064 J
Benzo(k)fluoranthene	<0.12 U
Chrysene	0.052 J
Dibenz(a,h)anthracene	<0.12 U
Fluoranthene	0.11 J
Fluorene	0.022 J
Indeno(1,2,3-cd)pyrene	0.033 J
Naphthalene	0.048 J
Phenanthrene	0.093 J
Pyrene	0.12

Location	PE-32
Sample Name	233_PE-32_20211201
Sample Date	12/1/2021
Sample Depth	15-15.5
Metals	
Arsenic	10.4
Barium	66.3
Cadmium	1.23 J
Copper	84
Lead	233
Mercury	2.11
Nickel	25.7
Selenium	1.42 J
Silver	1.01 J
Zinc	144

Location	LSB-72
Sample Name	177_LSB-72_12.0-14.0
Sample Date	6/16/2021
Sample Depth	12-14
Metals	
Arsenic	5.67
Barium	86.8
Cadmium	0.312 J
Chromium, Trivalent	5.6
Copper	23.8
Lead	119
Mercury	0.455
Nickel	11.4
Selenium	2.52
Silver	<1.2 U
Zinc	66.4

Location	LSB-68	LSB-68
Sample Name	165_LSB-68_12.0-14.0	166_LSB-68_14.0-16.0
Sample Date	6/16/2021	6/16/2021
Sample Depth	12-14	12-14
Metals		
Arsenic	9.84 J	4.49
Barium	108	54.2
Cadmium	0.828 J	0.306 J
Chromium, Trivalent	25	11
Copper	59.3 J	28.5
Lead	1,910 J	181
Mercury	0.529 J	0.313
Nickel	19.2	19.6
Selenium	<2.4 U	0.574 J
Silver	<1.2 U	<0.957 U
Zinc	176 J	48.2

Location	PE-55
Sample Name	264_PE-55_20220112
Sample Date	1/12/2022
Sample Depth	7-7.5
Metals	
Arsenic	9.11
Barium	105
Cadmium	0.598 J
Copper	49.2 J
Lead	948 J
Mercury	1.35 J
Nickel	15.3
Selenium	3.28
Silver	<0.98 U
Zinc	168 J

Location	PE-54
Sample Name	255_PE-54_20220112
Sample Date	1/12/2022
Sample Depth	7-7.5
VOCs	
Naphthalene	0.004 J
Total Xylenes	0.017 J
SVOCs	
Acenaphthene	0.16 J
Anthracene	0.2
Benzo(a)anthracene	0.64
Benzo(a)pyrene	0.58
Benzo(b)fluoranthene	0.67
Benzo(k)fluoranthene	0.24
Chrysene	0.72
Dibenz(a,h)anthracene	0.076 J
Fluoranthene	1.1
Fluorene	0.18 J
Indeno(1,2,3-cd)pyrene	0.35
Naphthalene	0.049 J
Phenanthrene	0.77
Pyrene	1.2

Location	LSB-60
Sample Name	137_LSB-60_12.0-14.0
Sample Date	6/15/2021
Sample Depth	12-14
SVOCs	
Acenaphthene	<0.15 U
Anthracene	<0.12 U
Benzo(a)anthracene	0.067 J
Benzo(a)pyrene	0.071 J
Benzo(b)fluoranthene	0.079 J
Benzo(k)fluoranthene	<0.12 U
Chrysene	0.063 J
Dibenz(a,h)anthracene	<0.12 U
Fluoranthene	0.13
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	0.045 J
Naphthalene	<0.19 U
Phenanthrene	0.1 J
Pyrene	0.12

Location	PE-26
Sample Name	224_PE-26_20211129
Sample Date	11/29/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	0.06 J
Anthracene	<0.12 U
Benzo(a)anthracene	<0.12 U
Benzo(a)pyrene	<0.16 U
Benzo(b)fluoranthene	<0.12 U
Benzo(k)fluoranthene	<0.12 U
Chrysene	<0.12 U
Dibenz(a,h)anthracene	<0.12 U
Fluoranthene	<0.12 U
Fluorene	<0.2 U
Indeno(1,2,3-cd)pyrene	<0.16 U
Naphthalene	0.048 J
Phenanthrene	0.04 J
Pyrene	0.11 J

Location	LSB-61
Sample Name	140_LSB-61_12.0-14.0
Sample Date	6/15/2021
Sample Depth	12-14
SVOCs	
Acenaphthene	<0.18 U
Anthracene	<0.14 U
Benzo(a)anthracene	0.039 J
Benzo(a)pyrene	<0.18 U
Benzo(b)fluoranthene	0.039 J
Benzo(k)fluoranthene	<0.14 U
Chrysene	0.034 J
Dibenz(a,h)anthracene	<0.14 U
Fluoranthene	0.068 J
Fluorene	<0.22 U
Indeno(1,2,3-cd)pyrene	<0.18 U
Naphthalene	<0.22 U
Phenanthrene	0.054 J
Pyrene	0.061 J

Location	PE-28
Sample Name	226_PE-28_20211129
Sample Date	11/29/2021
Sample Depth	15-15.5
SVOCs	
Acenaphthene	0.036 J
Anthracene	<0.12 U
Benzo(a)anthracene	0.042 J
Benzo(a)pyrene	<0.16 U
Benzo(b)fluoranthene	0.052 J
Benzo(k)fluoranthene	<0.12 U
Chrysene	0.04 J
Dibenz(a,h)anthracene	<0.12 U
Fluoranthene	0.077 J
Fluorene	0.035 J
Indeno(1,2,3-cd)pyrene	0.028 J
Naphthalene	0.35
Phenanthrene	0.099 J
Pyrene	0.088 J

Analyte	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs
VOCs			
Acetone	0.05	0.05	500
Naphthalene	12	12	500
Total Xylenes	0.26	1.6	500
SVOCs			
3 & 4 Methylphenol (m&p Cresol)	0.33	0.33	500
Acenaphthene	20	98	500
Anthracene	100	1000	500
Benzo(a)anthracene	1	1	5.6
Benzo(a)pyrene	1	22	1
Benzo(b)fluoranthene	1	1.7	5.6
Benzo(k)fluoranthene	0.8	1.7	56
Chrysene	1	1	56
Dibenz(a,h)anthracene	0.33	1000	0.56
Dibenzofuran	7	210	350
Fluoranthene	100	1000	500
Fluorene	30	386	500
Indeno(1,2,3-cd)pyrene	0.5	8.2	5.6
Naphthalene	12	12	500
Phenanthrene	100	1000	500
Phenol	0.33	0.33	500
Pyrene	100	1000	500
Pesticides			
4,4'-DDD	0.0033	14	92
4,4'-DDE	0.0033	17	62
4,4'-DDT	0.0033	136	47
Dieldrin	0.005	0.1	1.4
PCBs			
Total PCBs	0.1	3.2	1
Metals			
Arsenic	13	16	16
Barium	350	820	400
Cadmium	2.5	7.5	9.3
Chromium, Trivalent	30		1500
Copper	50	1720	270
Lead	63	450	1000
Mercury	0.18	0.73	2.8
Nickel	30	130	310
Selenium	3.9	4	1500
Silver	2	8.3	1500
Zinc	109	2480	10000
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.00088	0.0037	0.44
Perfluorooctanoic Acid (PFOA)	0.00066	0.0011	0.5

Exceedance Summary:
10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Location	PE-22
Sample Name	218_PE-22_20211119
Sample Date	11/19/2021
Sample Depth	9-9.5
VOCs	
Acetone	0.01 J
Naphthalene	0.002 J
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.93
Acenaphthene	1.8
Anthracene	3
Benzo(a)anthracene	14
Benzo(a)pyrene	13
Benzo(b)fluoranthene	15
Benzo(k)fluoranthene	4.1
Chrysene	13
Dibenz(a,h)anthracene	1.6
Dibenzofuran	1.5
Fluoranthene	32
Fluorene	1.3
Indeno(1,2,3-cd)pyrene	10
Naphthalene	5.1
Phenanthrene	6.7
Phenol	0.3
Pyrene	30
Pesticides	
4,4'-DDD	<0.0198 U
4,4'-DDE	<0.0198 U
4,4'-DDT	<0.0371 U
Dieldrin	<0.0124 U
PCBs	
Total PCBs	<0.0401 U
Metals	
Arsenic	5.65
Barium	114
Cadmium	0.689 J
Chromium, Trivalent	12
Copper	39.8
Lead	244
Mercury	0.235
Nickel	13.1
Selenium	0.985 J
Silver	<0.956 U
Zinc	191
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000286 U
Perfluorooctanoic Acid (PFOA)	0.000068 J

Location	PE-12
Sample Name	203_PE-12_20211105
Sample Date	11/5/2021
Sample Depth	7.5-8
VOCs	
Acetone	0.072
Naphthalene	0.0018 J
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.043 J
Acenaphthene	0.15 J
Anthracene	0.41
Benzo(a)anthracene	1.4
Benzo(a)pyrene	1.8
Benzo(b)fluoranthene	1.9
Benzo(k)fluoranthene	0.65
Chrysene	1.3
Dibenz(a,h)anthracene	0.28
Dibenzofuran	0.14 J
Fluoranthene	2.5
Fluorene	0.19 J
Indeno(1,2,3-cd)pyrene	1.3
Naphthalene	0.46
Phenanthrene	1.2
Phenol	<0.21 U
Pyrene	2.4
Pesticides	
4,4'-DDD	<0.00203 UJ
4,4'-DDE	<0.00203 U
4,4'-DDT	<0.0038 UJ
Dieldrin	<0.00127 UJ
PCBs	
Total PCBs	<0.0411 U
Metals	
Arsenic	4.87
Barium	180 J
Cadmium	0.223 J
Chromium, Trivalent	14 J
Copper	84.1 J
Lead	1,790 J
Mercury	1.54
Nickel	18
Selenium	0.913 J
Silver	<1.01 U
Zinc	187 J
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000403
Perfluorooctanoic Acid (PFOA)	0.000139 J

Location	PE-17
Sample Name	212_PE-17_20211118
Sample Date	11/18/2021
Sample Depth	9-9.5
VOCs	
Acetone	<0.014 U
Naphthalene	0.0031 J
Total Xylenes	<0.0014 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.34
Acenaphthene	0.24
Anthracene	0.55
Benzo(a)anthracene	2.6
Benzo(a)pyrene	2.6
Benzo(b)fluoranthene	2.9
Benzo(k)fluoranthene	0.83
Chrysene	2.2
Dibenz(a,h)anthracene	0.34
Dibenzofuran	0.21
Fluoranthene	5.3
Fluorene	0.3
Indeno(1,2,3-cd)pyrene	1.8
Naphthalene	0.95
Phenanthrene	1.7
Phenol	0.067 J
Pyrene	4.8
Pesticides	
4,4'-DDD	<0.00198 U
4,4'-DDE	<0.00198 U
4,4'-DDT	<0.0037 U
Dieldrin	<0.00124 U
PCBs	
Total PCBs	<0.0409 U
Metals	
Arsenic	8.96 J
Barium	118
Cadmium	0.5 J
Chromium, Trivalent	16
Copper	64.1 J
Lead	278
Mercury	0.618 J
Nickel	17.3
Selenium	1.88 J
Silver	0.32 J
Zinc	185
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000169 J
Perfluorooctanoic Acid (PFOA)	0.000385

Location	PE-15
Sample Name	208_PE-15_20211110
Sample Date	11/10/2021
Sample Depth	10-10.5
VOCs	
Acetone	0.067
Naphthalene	<0.0059 U
Total Xylenes	<0.0015 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.34 UJ
Acenaphthene	0.048 J
Anthracene	0.11 J
Benzo(a)anthracene	0.34
Benzo(a)pyrene	0.41
Benzo(b)fluoranthene	0.5
Benzo(k)fluoranthene	0.15
Chrysene	0.33
Dibenz(a,h)anthracene	0.07 J
Dibenzofuran	0.026 J
Fluoranthene	0.63
Fluorene	0.042 J
Indeno(1,2,3-cd)pyrene	0.36
Naphthalene	0.053 J
Phenanthrene	0.39
Phenol	<0.23 UJ
Pyrene	0.57
Pesticides	
4,4'-DDD	<0.00221 U
4,4'-DDE	0.000635 J
4,4'-DDT	<0.00415 U
Dieldrin	<0.00138 U
PCBs	
Total PCBs	0.0219 J
Metals	
Arsenic	7.78
Barium	140
Cadmium	0.806 J
Chromium, Trivalent	16
Copper	176
Lead	297
Mercury	1.22
Nickel	17.7
Selenium	1.01 J
Silver	<1.09 U
Zinc	296
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000243 J
Perfluorooctanoic Acid (PFOA)	<0.000337 U

Location	PE-78
Sample Name	294_PE-78_20220119
Sample Date	1/19/2022
Sample Depth	0-1
VOCs	
Acetone	<0.014 U
Naphthalene	<0.0057 U
Total Xylenes	<0.0014 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.31 U
Acenaphthene	<0.17 U
Anthracene	<0.13 U
Benzo(a)anthracene	0.065 J
Benzo(a)pyrene	0.07 J
Benzo(b)fluoranthene	0.1 J
Benzo(k)fluoranthene	<0.13 U
Chrysene	0.064 J
Dibenz(a,h)anthracene	<0.13 U
Dibenzofuran	<0.22 U
Fluoranthene	0.094 J
Fluorene	<0.22 U
Indeno(1,2,3-cd)pyrene	0.061 J
Naphthalene	<0.22 U
Phenanthrene	0.054 J
Phenol	<0.22 U
Pyrene	0.093 J
Pesticides	
4,4'-DDD	<0.00201 U
4,4'-DDE	<0.00201 U
4,4'-DDT	<0.00377 U
Dieldrin	<0.00126 U
PCBs	
Total PCBs	<0.0439 U
Metals	
Arsenic	4.84
Barium	84.8
Cadmium	0.6 J
Chromium, Trivalent	16
Copper	32.9
Lead	209
Mercury	0.545
Nickel	14.6
Selenium	<2.1 U
Silver	<1.05 U
Zinc	111
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000294 U
Perfluorooctanoic Acid (PFOA)	<0.000294 U

Location	PE-77
Sample Name	292_PE-77_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.031 U
Naphthalene	<0.012 U
Total Xylenes	<0.0031 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.12 J
Acenaphthene	0.49
Anthracene	3.2
Benzo(a)anthracene	7.7
Benzo(a)pyrene	6.6
Benzo(b)fluoranthene	8.5
Benzo(k)fluoranthene	3.1
Chrysene	7.2
Dibenz(a,h)anthracene	1.2
Dibenzofuran	0.66
Fluoranthene	14
Fluorene	0.91
Indeno(1,2,3-cd)pyrene	5.6
Naphthalene	0.31
Phenanthrene	11
Phenol	0.06
Pyrene	12
Pesticides	
4,4'-DDD	<0.0101 U
4,4'-DDE	<0.0101 U
4,4'-DDT	0.0207
Dieldrin	<0.00631 U
PCBs	
Total PCBs	0.0891 J
Metals	
Arsenic	4.49
Barium	372
Cadmium	0.656 J
Chromium, Trivalent	50
Copper	29.5
Lead	246
Mercury	0.345
Nickel	27.6
Selenium	0.268 J
Silver	<0.994 U
Zinc	267
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000973
Perfluorooctanoic Acid (PFOA)	<0.000301 U

Location	PE-76
Sample Name	291_PE-76_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.018 U
Naphthalene	<0.0072 U
Total Xylenes	<0.0018 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.4 U
Acenaphthene	0.12 J
Anthracene	0.42
Benzo(a)anthracene	0.85
Benzo(a)pyrene	0.93
Benzo(b)fluoranthene	1.2
Benzo(k)fluoranthene	0.36
Chrysene	0.9
Dibenz(a,h)anthracene	0.17
Dibenzofuran	0.098 J
Fluoranthene	1.7
Fluorene	0.18 J
Indeno(1,2,3-cd)pyrene	0.78
Naphthalene	0.17 J
Phenanthrene	1.2
Phenol	<0.28 U
Pyrene	1.5
Pesticides	
4,4'-DDD	<0.0156 U
4,4'-DDE	<0.0156 U
4,4'-DDT	<0.0294 U
Dieldrin	<0.00979 U
PCBs	
Total PCBs	0.0178 J
Metals	
Arsenic	5.05
Barium	113
Cadmium	0.614 J
Chromium, Trivalent	52
Copper	62.1
Lead	199
Mercury	0.387
Nickel	26.5
Selenium	0.758 J
Silver	1.05
Zinc	155
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000312 U
Perfluorooctanoic Acid (PFOA)	<0.000312 U

Location	PE-75
Sample Name	290_PE-75_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.014 U
Naphthalene	<0.0058 U
Total Xylenes	<0.0014 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.32 U
Acenaphthene	<0.18 U
Anthracene	<0.14 U
Benzo(a)anthracene	0.037 J
Benzo(a)pyrene	<0.18 U
Benzo(b)fluoranthene	0.047 J
Benzo(k)fluoranthene	<0.14 U
Chrysene	0.035 J
Dibenz(a,h)anthracene	<0.14 U
Dibenzofuran	<0.22 U
Fluoranthene	0.044 J
Fluorene	<0.22 U
Indeno(1,2,3-cd)pyrene	0.031 J
Naphthalene	<0.22 U
Phenanthrene	<0.14 U
Phenol	<0.22 U
Pyrene	0.042 J
Pesticides	
4,4'-DDD	<0.00208 U
4,4'-DDE	<0.00208 U
4,4'-DDT	<0.00391 U
Dieldrin	<0.0013 U
PCBs	
Total PCBs	<0.0453 U
Metals	
Arsenic	2.77
Barium	48.9
Cadmium	0.368 J
Chromium, Trivalent	15
Copper	15.4
Lead	47.4
Mercury	0.111
Nickel	12.8
Selenium	<2.16 U
Silver	<1.08 U
Zinc	46.9
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000313 U
Perfluorooctanoic Acid (PFOA)	<0.000313 U

Location	PE-16
Sample Name	210_PE-16_20211111
Sample Date	11/11/2021
Sample Depth	10-10.5
VOCs	
Acetone	0.44 J
Naphthalene	0.00089 J
Total Xylenes	0.0017 J
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.04 J
Acenaphthene	0.16 J
Anthracene	0.46
Benzo(a)anthracene	2.2
Benzo(a)pyrene	2.5
Benzo(b)fluoranthene	2.6
Benzo(k)fluoranthene	0.96
Chrysene	2
Dibenz(a,h)anthracene	0.35
Dibenzofuran	0.08 J
Fluoranthene	4.2
Fluorene	0.17 J
Indeno(1,2,3-cd)pyrene	1.8
Naphthalene	0.29
Phenanthrene	1.6
Phenol	<0.23 U
Pyrene	4
Pesticides	
4,4'-DDD	<0.00213 U
4,4'-DDE	<0.00213 U
4,4'-DDT	<0.004 U
Dieldrin	<0.00133 U
PCBs	
Total PCBs	<0.045 U
Metals	
Arsenic	6.48
Barium	172
Cadmium	0.714 J
Chromium, Trivalent	10 J
Copper	90.3
Lead	1,320
Mercury	1.3
Nickel	13.2
Selenium	1.33 J
Silver	<1.06 U
Zinc	243
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.00031 U
Perfluorooctanoic Acid (PFOA)	0.000604

Location	PE-24
Sample Name	221_PE-24_20211124
Sample Date	11/24/2021
Sample Depth	7-7.5
VOCs	
Acetone	0.0072 J
Naphthalene	<0.005 U
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.72 J
Acenaphthene	1.3
Anthracene	2.3
Benzo(a)anthracene	7.4
Benzo(a)pyrene	7.3
Benzo(b)fluoranthene	7.7
Benzo(k)fluoranthene	2.2
Chrysene	7.3
Dibenz(a,h)anthracene	1.2
Dibenzofuran	0.51 J
Fluoranthene	10
Fluorene	0.94 J
Indeno(1,2,3-cd)pyrene	4.7
Naphthalene	2.2
Phenanthrene	6.3
Phenol	<1 U
Pyrene	13
Pesticides	
4,4'-DDD	<0.00191 U
4,4'-DDE	<0.00191 U
4,4'-DDT	<0.00358 U
Dieldrin	<0.00119 U
PCBs	
Total PCBs	<0.0404 U
Metals	
Arsenic	6.3
Barium	138
Cadmium	0.506 J
Chromium, Trivalent	10
Copper	34.6
Lead	191
Mercury	0.227
Nickel	14.6
Selenium	1.24 J
Silver	<0.972 U
Zinc	129
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000304 U
Perfluorooctanoic Acid (PFOA)	<0.000304 U

Location	PE-74
Sample Name	289_PE-74_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.015 U
Naphthalene	<0.006 U
Total Xylenes	<0.0015 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.4 U
Acenaphthene	<0.79 U
Anthracene	2
Benzo(a)anthracene	5.5
Benzo(a)pyrene	4.9
Benzo(b)fluoranthene	6.9
Benzo(k)fluoranthene	2.4
Chrysene	5.3
Dibenz(a,h)anthracene	0.8
Dibenzofuran	0.18 J
Fluoranthene	10
Fluorene	0.45 J
Indeno(1,2,3-cd)pyrene	3.8
Naphthalene	0.16 J
Phenanthrene	4.6
Phenol	<0.99 U
Pyrene	8.7
Pesticides	
4,4'-DDD	<0.00957 U
4,4'-DDE	<0.00957 U
4,4'-DDT	0.0116 J
Dieldrin	<0.00598 U
PCBs	
Total PCBs	0.0143 J
Metals	
Arsenic	3.52
Barium	85.7
Cadmium	0.581 J
Chromium, Trivalent	66
Copper	62.5
Lead	142
Mercury	0.68
Nickel	33.3
Selenium	0.646 J
Silver	<0.922 U
Zinc	163
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000727
Perfluorooctanoic Acid (PFOA)	<0.000281 U

Location	PE-73
Sample Name	288_PE-73_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.012 U
Naphthalene	<0.0048 U
Total Xylenes	<0.0012 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.1 J
Acenaphthene	1.5
Anthracene	2.4
Benzo(a)anthracene	5.8
Benzo(a)pyrene	5.4
Benzo(b)fluoranthene	7.2
Benzo(k)fluoranthene	2
Chrysene	5.6
Dibenz(a,h)anthracene	0.79
Dibenzofuran	1
Fluoranthene	12
Fluorene	1.2
Indeno(1,2,3-cd)pyrene	3.7
Naphthalene	1.2
Phenanthrene	10
Phenol	0.046 J
Pyrene	9.8
Pesticides	
4,4'-DDD	<0.00209 U
4,4'-DDE	<0.00209 U
4,4'-DDT	<0.00393 U
Dieldrin	<0.00131 U
PCBs	
Total PCBs	<0.0444 U
Metals	
Arsenic	10.7
Barium	212
Cadmium	0.915 J
Chromium, Trivalent	14
Copper	213
Lead	868
Mercury	2.63
Nickel	18.1
Selenium	3.07
Silver	0.458 J
Zinc	374
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000316 U
Perfluorooctanoic Acid (PFOA)	0.000117 J

Location	PE-33
Sample Name	234_PE-33_20211201
Sample Date	12/1/2021
Sample Depth	15-15.5
Metals	
Arsenic	4.6
Barium	42.7
Cadmium	0.499 J
Copper	27.5
Lead	98
Mercury	0.486
Nickel	18.7
Selenium	0.386 J
Silver	<0.941 U
Zinc	89

Location	LSB-69
Sample Name	168_LSB-69_12.0-14.0
Sample Date	6/16/2021
Sample Depth	12-14
Metals	
Arsenic	3.06
Barium	74.1
Cadmium	0.457 J
Chromium, Trivalent	16
Copper	18.5
Lead	61.1
Mercury	0.188
Nickel	13.5
Selenium	<1.9 U
Silver	<0.952 U
Zinc	52.1

Location	PE-34
Sample Name	235_PE-34_20211201
Sample Date	12/1/2021
Sample Depth	15-15.5
Metals	
Arsenic	6.79
Barium	99.7
Cadmium	0.458 J
Copper	32.8
Lead	114
Mercury	0.503
Nickel	19.5
Selenium	0.64 J
Silver	<1.07 U
Zinc	54.8

Location	LSB-70
Sample Name	171_LSB-70_12.0-14.0
Sample Date	6/16/2021
Sample Depth	12-14
Metals	
Arsenic	16
Barium	216
Cadmium	0.954 J
Chromium, Trivalent	32
Copper	88.3
Lead	370
Mercury	0.922
Nickel	29.1
Selenium	<2.93 U
Silver	<1.47 U
Zinc	352

Location	PE-50
Sample Name	253_PE-50_20211210
Sample Date	12/10/2021
Sample Depth	8-8.5
VOCs	
Acetone	<0.015 U
Naphthalene	<0.006 U
Total Xylenes	<0.0015 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.6 U
Acenaphthene	0.28 J
Anthracene	<0.66 U
Benzo(a)anthracene	1.1
Benzo(a)pyrene	0.93
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	<0.66 U
Chrysene	1.2
Dibenz(a,h)anthracene	0.14 J
Dibenzofuran	<1.1 U
Fluoranthene	1.7
Fluorene	0.42 J
Indeno(1,2,3-cd)pyrene	<0.88 U
Naphthalene	0.34 J
Phenanthrene	1.5
Phenol	<1.1 U
Pyrene	2
Pesticides	
4,4'-DDD	<0.00208 U
4,4'-DDE	<0.00208 U
4,4'-DDT	<0.0039 U
Dieldrin	<0.0013 U
PCBs	
Total PCBs	<0.0429 U
Metals	
Arsenic	6.81
Barium	99.5
Cadmium	0.579 J
Chromium, Trivalent	10
Copper	72.6
Lead	209
Mercury	1.62
Nickel	14.7
Selenium	5.22
Silver	0.421 J
Zinc	168
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000336 U
Perfluorooctanoic Acid (PFOA)	0.000101 J

Legend

- Bottom Documentation Samples
- Hot Spot Documentation Samples
- Perimeter Documentation Samples
- Spill No. 1902392 Documentation Samples
- Site Boundary
- Cellar Footprint
- AOC-1 Extents
- Underground Storage Tank
- Excavation up to approximately 12 feet below ground surface (bgs) for remediation of Spill no.1902392
- Excavation between approximately 4 and 15 feet bgs for installation of stormwater detention tanks
- Excavation to between approximately 5 and 10 feet bgs throughout (el 7 feet NAVD88) for construction of the cellar
- Excavation to between approximately 11.5 to 15 feet bgs for stormwater tank installation and remediation of PAHs and metals (LSB-36)
- Excavation to approximately 15 feet bgs for remediation of PAHs (LSB-37)
- Excavation to approximately 15 feet bgs for remediation of metals (LSB-39)
- Excavation to approximately 7 feet bgs for remediation of metals (LSB-40)

0 15 30
SCALE IN FEET

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

Notes:
1. Site boundary from Topographic, Boundary, and Utility Survey prepared by Langan dated 19 August 2020.
2. Cellar Footprint shown according to Cellar Slab. As Built Top of Slab prepared by StructureTech dated 29 April 2022.
3. Excavation depths/extents and sample locations/depths are approximate and are based on visual observation and field-taping measurements obtained by the Langan representative.
4. End point samples were collected at the final excavation depth for site redevelopment.

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Langan International LLC
Collectively known as Langan

Project
280 WEST 155TH STREET DEVELOPMENT
NYSDEC BCP Site No.: C231138
BLOCK No. 2040, LOT No. 48
(Former Lots 48, 61 and 62)
MANHATTAN NEW YORK

Drawing Title
POST EXCAVATION AND DELINEATION SAMPLING ANALYTICAL RESULTS - CENTRAL

Project No.	100765102
Date	12/19/2022
Scale	1"=0'
Drawn By	IHB
Figure	5C

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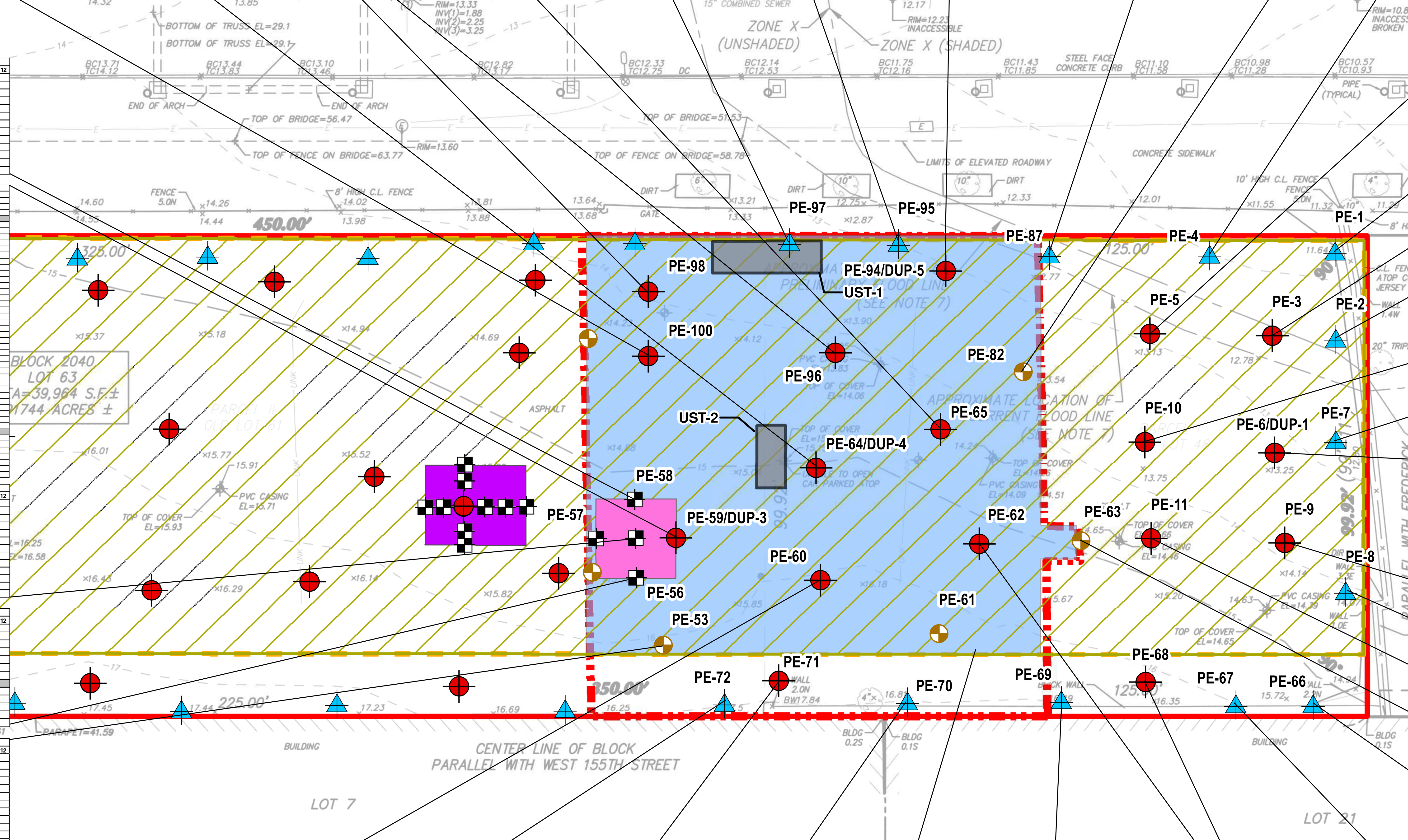
Path: \\langan.com\data\PAR\data1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figure 5C - PE and Delineation Sampling Map Central.mxd Date: 12/19/2022 User: ibaker Time: 4:14:27 PM



Location	PE-100
Sample Name	323_PE-100_20220209
Sample Date	2/9/2022
Sample Depth	12-12.5
VOCs	
Acetone	0.097
Naphthalene	<0.0061 U
Total Xylenes	<0.0015 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.2 U
Acenaphthene	<0.64 U
Anthracene	<0.48 U
Benzo(a)anthracene	0.12 J
Benzo(a)pyrene	<0.64 U
Benzo(b)fluoranthene	<0.48 U
Benzo(k)fluoranthene	<0.48 U
Chrysene	0.099 J
Dibenz(a,h)anthracene	<0.48 U
Dibenzofuran	<0.81 U
Fluoranthene	0.12 J
Fluorene	0.078 J
Indeno(1,2,3-cd)pyrene	0.11 J
Naphthalene	<0.81 U
Phenanthrene	0.1 J
Phenol	<0.81 U
Pyrene	0.12 J
Pesticides	
4,4'-DDD	<0.00254 U
4,4'-DDE	<0.00254 U
4,4'-DDT	<0.00476 U
Dieldrin	<0.00158 U
PCBs	
Total PCBs	<0.0536 U
Metals	
Arsenic	5.56
Barium	31.4
Cadmium	0.422 J
Chromium, Trivalent	32
Copper	13.3
Lead	18.7
Mercury	<0.118 U
Nickel	19.1
Selenium	0.528 J
Silver	<1.32 U
Zinc	66
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000366 U
Perfluorooctanoic Acid (PFOA)	<0.000366 U

Location	PE-64	PE-64
Sample Name	276_PE-64_20220114	277_DUP-4
Sample Date	1/14/2022	1/14/2022
Sample Depth	9-9.5	9-9.5
VOCs		
Acetone	0.05	0.042
Naphthalene	<0.0059 U	<0.0053 U
Total Xylenes	<0.0015 U	<0.0013 U
SVOCs		
3 & 4 Methylphenol (m&p Cresol)	<0.33 U	<0.32 U
Acenaphthene	<0.18 U	0.053 J
Anthracene	<0.14 U	0.069 J
Benzo(a)anthracene	0.088 J	0.32
Benzo(a)pyrene	0.11 J	0.32
Benzo(b)fluoranthene	0.13 J	0.37
Benzo(k)fluoranthene	0.046 J	0.11 J
Chrysene	0.09 J	0.3
Dibenz(a,h)anthracene	<0.14 U	0.032 J
Dibenzofuran	<0.23 U	<0.22 U
Fluoranthene	0.12 J	0.55 J
Fluorene	<0.23 U	0.041 J
Indeno(1,2,3-cd)pyrene	0.06 J	0.14 J
Naphthalene	<0.23 U	<0.22 U
Phenanthrene	0.043 J	0.37 J
Phenol	<0.23 U	<0.22 U
Pyrene	0.12 J	0.51 J
Pesticides		
4,4'-DDD	<0.00214 U	<0.00205 U
4,4'-DDE	<0.00214 U	<0.00205 U
4,4'-DDT	<0.00402 U	<0.00385 U
Dieldrin	<0.00134 U	<0.00128 U
PCBs		
Total PCBs	<0.0455 U	<0.133 U
Metals		
Arsenic	17.6	13.5
Barium	203	186
Cadmium	0.598 J	0.553 J
Chromium, Trivalent	13	13
Copper	63.2 J	114 J
Lead	1,040 J	384 J
Mercury	0.915	0.811
Nickel	14.8	14.5
Selenium	3.27	1.63 J
Silver	0.395 J	<1.06 U
Zinc	282 J	135 J
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	<0.000319 U	<0.000296 U
Perfluorooctanoic Acid (PFOA)	<0.000319 U	<0.000296 U

Location	PE-98
Sample Name	321_98_20220203
Sample Date	2/3/2022
Sample Depth	12-12.5
VOCs	
Acetone	0.086
Naphthalene	<0.0059 U
Total Xylenes	<0.0015 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.38 U
Acenaphthene	0.036 J
Anthracene	<0.16 U
Benzo(a)anthracene	0.05 J
Benzo(a)pyrene	<0.21 U
Benzo(b)fluoranthene	0.05 J
Benzo(k)fluoranthene	<0.16 U
Chrysene	0.047 J
Dibenz(a,h)anthracene	<0.16 U
Dibenzofuran	<0.26 U
Fluoranthene	0.082 J
Fluorene	<0.26 U
Indeno(1,2,3-cd)pyrene	<0.21 U
Naphthalene	<0.26 U
Phenanthrene	0.044 J
Phenol	<0.26 U
Pyrene	0.073 J
Pesticides	
4,4'-DDD	<0.00243 U
4,4'-DDE	<0.00243 U
4,4'-DDT	<0.00456 U
Dieldrin	<0.00152 U
PCBs	
Total PCBs	<0.0523 U
Metals	
Arsenic	8.36
Barium	46.2
Cadmium	0.516 J
Chromium, Trivalent	27
Copper	22.4
Lead	90.4
Mercury	0.785
Nickel	19.9
Selenium	0.617 J
Silver	<1.26 U
Zinc	65.4
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000391 U
Perfluorooctanoic Acid (PFOA)	<0.000391 U

Location	PE-96
Sample Name	316_PE-96_20220128
Sample Date	1/28/2022
Sample Depth	12-12.5
VOCs	
Acetone	0.05
Naphthalene	0.012
Total Xylenes	0.00088 J
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.47
Acenaphthene	0.69
Anthracene	0.31
Benzo(a)anthracene	0.27
Benzo(a)pyrene	0.26
Benzo(b)fluoranthene	0.26
Benzo(k)fluoranthene	0.078 J
Chrysene	0.24
Dibenz(a,h)anthracene	<0.16 U
Dibenzofuran	0.15 J
Fluoranthene	0.65
Fluorene	0.45
Indeno(1,2,3-cd)pyrene	0.14 J
Naphthalene	2.2
Phenanthrene	1.5
Phenol	<0.27 U
Pyrene	0.72
Pesticides	
4,4'-DDD	<0.00255 U
4,4'-DDE	<0.00255 U
4,4'-DDT	<0.00479 U
Dieldrin	<0.0016 U
PCBs	
Total PCBs	<0.0558 U
Metals	
Arsenic	9.39
Barium	43.8
Cadmium	<1.27 U
Chromium, Trivalent	17
Copper	23.2
Lead	109
Mercury	6.03
Nickel	13.3
Selenium	0.863 J
Silver	<1.27 U
Zinc	55.5
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.00041 U
Perfluorooctanoic Acid (PFOA)	<0.00041 U

Location	PE-65
Sample Name	280_PE-65_20220118
Sample Date	1/18/2022
Sample Depth	9-9.5
VOCs	
Acetone	0.038
Naphthalene	<0.0042 U
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.038 J
Acenaphthene	0.13 J
Anthracene	0.39
Benzo(a)anthracene	1.1
Benzo(a)pyrene	0.92
Benzo(b)fluoranthene	1.1
Benzo(k)fluoranthene	0.44
Chrysene	0.99
Dibenz(a,h)anthracene	0.12
Dibenzofuran	0.068 J
Fluoranthene	2.2
Fluorene	0.15 J
Indeno(1,2,3-cd)pyrene	0.55
Naphthalene	0.15 J
Phenanthrene	1.4
Phenol	<0.21 U
Pyrene	1.8
Pesticides	
4,4'-DDD	<0.00202 U
4,4'-DDE	<0.00202 U
4,4'-DDT	<0.0038 U
Dieldrin	<0.00126 U
PCBs	
Total PCBs	<0.04 U
Metals	
Arsenic	4.37
Barium	63.5 J
Cadmium	0.32 J
Chromium, Trivalent	10
Copper	29.2
Lead	151 J
Mercury	1.48
Nickel	13.6
Selenium	0.465 J
Silver	<0.969 U
Zinc	67.3
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000284 U
Perfluorooctanoic Acid (PFOA)	<0.000284 U

Location	PE-97
Sample Name	319_97_20220202
Sample Date	2/2/2022
Sample Depth	12-12.5
VOCs	
Acetone	<0.62 U
Naphthalene	1.9 J
Total Xylenes	0.36 J
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	0.49
Anthracene	0.36
Benzo(a)anthracene	0.6
Benzo(a)pyrene	0.36
Benzo(b)fluoranthene	0.35
Benzo(k)fluoranthene	0.095 J
Chrysene	0.78
Dibenz(a,h)anthracene	0.052 J
Dibenzofuran	0.26
Fluoranthene	0.86
Fluorene	0.53
Indeno(1,2,3-cd)pyrene	0.14 J
Naphthalene	0.1 J
Phenanthrene	2
Phenol	<0.19 U
Pyrene	1.4
Pesticides	
4,4'-DDD	<0.0018 U
4,4'-DDE	<0.0018 U
4,4'-DDT	<0.00338 U
Dieldrin	<0.00113 U
PCBs	
Total PCBs	<0.038 U
Metals	
Arsenic	2.4
Barium	72
Cadmium	0.443 J
Chromium, Trivalent	17
Copper	33.2
Lead	50.8
Mercury	0.271
Nickel	17
Selenium	<1.85 U
Silver	<0.923 U
Zinc	69.4
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000282 U
Perfluorooctanoic Acid (PFOA)	<0.000282 U

Location	PE-95
Sample Name	314_PE-95_20220124
Sample Date	1/24/2022
Sample Depth	12-12.5
VOCs	
Acetone	0.016
Naphthalene	0.0011 J
Total Xylenes	<0.00058 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Acenaphthene	<0.15 U
Anthracene	<0.11 U
Benzo(a)anthracene	<0.11 U
Benzo(a)pyrene	<0.15 U
Benzo(b)fluoranthene	<0.11 U
Benzo(k)fluoranthene	<0.11 U
Chrysene	<0.11 U
Dibenz(a,h)anthracene	<0.12 U
Dibenzofuran	<0.19 U
Fluoranthene	<0.11 U
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	<0.15 U
Naphthalene	<0.19 U
Phenanthrene	<0.11 U
Phenol	<0.19 U
Pyrene	<0.11 U
Pesticides	
4,4'-DDD	<0.00185 U
4,4'-DDE	<0.00185 U
4,4'-DDT	<0.00347 U
Dieldrin	<0.00116 U
PCBs	
Total PCBs	<0.0382 U
Metals	
Arsenic	1.48
Barium	85.5 J
Cadmium	0.302 J
Chromium, Trivalent	27
Copper	20.4
Lead	7.4
Mercury	<0.074 U
Nickel	20.2
Selenium	<1.78 U
Silver	<0.889 U
Zinc	42.2 J
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000264 U
Perfluorooctanoic Acid (PFOA)	<0.000264 U

Location	PE-94	PE-94
Sample Name	312_PE-94_20220124	313_DUP-5
Sample Date	1/24/2022	1/24/2022
Sample Depth	12-12.5	12-12.5
VOCs		
Acetone	0.021	0.017
Naphthalene	<0.0044 U	<0.0045 U
Total Xylenes	<0.0011 U	<0.0011 U
SVOCs		
3 & 4 Methylphenol (m&p Cresol)	<1.4 U	<0.28 U
Acenaphthene	2.8 J	0.16 J
Anthracene	3.2 J	0.11 J
Benzo(a)anthracene	6 J	0.11 J
Benzo(a)pyrene	5.1 J	0.09 J
Benzo(b)fluoranthene	6.2 J	0.1 J
Benzo(k)fluoranthene	1.8 J	0.035 J
Chrysene	5.2 J	0.1 J
Dibenz(a,h)anthracene	0.71	<0.12 U
Dibenzofuran	2.1	0.16 J
Fluoranthene	11 J	0.37 J
Fluorene	3.2 J	0.17 J
Indeno(1,2,3-cd)pyrene	3 J	0.056 J
Naphthalene	2.3 J	0.16 J
Phenanthrene	15 J	0.93 J
Phenol	<0.99 U	<0.2 U
Pyrene	10 J	0.29 J
Pesticides		
4,4'-DDD	<0.00184 U	<0.00191 U
4,4'-DDE	<0.00184 U	<0.00191 U
4,4'-DDT	<0.00346 U	<0.00358 U
Dieldrin	<0.00115 U	<0.00119 U
PCBs		
Total PCBs	<0.0386 U	<0.0376 U
Metals		
Arsenic	1.94	1.74
Barium	79	63
Cadmium	0.292 J	0.273 J
Chromium, Trivalent	17	16
Copper	21.5	20.1
Lead	29.8	31
Mercury	0.149 J	0.377 J
Nickel	14.8	14.7
Selenium	<1.83 U	<1.82 U
Silver	<0.914 U	<0.91 U
Zinc	43.4	33.7
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	<0.000267 U	<0.000266 U
Perfluorooctanoic Acid (PFOA)	<0.000267 U	<0.000266 U

Location	PE-87
Sample Name	304_PE-87_20220121
Sample Date	1/21/2022
Sample Depth	6-6.5
VOCs	
Acetone	0.016
Naphthalene	<0.0055 U
Total Xylenes	<0.0014 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	<0.15 U
Anthracene	<0.11 U
Benzo(a)anthracene	0.051 J
Benzo(a)pyrene	0.047 J
Benzo(b)fluoranthene	0.059 J
Benzo(k)fluoranthene	<0.11 U
Chrysene	0.051 J
Dibenz(a,h)anthracene	<0.11 U
Dibenzofuran	<0.19 U
Fluoranthene	0.11
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	0.03 J
Naphthalene	<0.19 U
Phenanthrene	0.079 J
Phenol	<0.19 U
Pyrene	0.11
Pesticides	
4,4'-DDD	<0.00185 U
4,4'-DDE	<0.00185 U
4,4'-DDT	<0.00347 U
Dieldrin	<0.00116 U
PCBs	
Total PCBs	<0.0379 U
Metals	
Arsenic	2
Barium	69.8
Cadmium	0.554 J
Chromium, Trivalent	18
Copper	25.4
Lead	33.3
Mercury	0.126
Nickel	15.2
Selenium	<1.79 U
Silver	<0.893 U
Zinc	42.3
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.000277 U
Perfluorooctanoic Acid (PFOA)	<0.000277 U

Location	PE-82
Sample Name	298_PE-82_20220119
Sample Date	1/19/2022
Sample Depth	12-12.5
VOCs	
Naphthalene	0.0011 J
Total Xylenes	<0.0013 U
SVOCs	
Acenaphthene	<0.62 U
Anthracene	<0.46 U
Benzo(a)anthracene	<0.46 U
Benzo(a)pyrene	<0.62 U
Benzo(b)fluoranthene	<0.46 U
Benzo(k)fluoranthene	<0.46 U
Chrysene	<0.46 U
Dibenz(a,h)anthracene	<0.46 U
Fluoranthene	<0.46 U
Fluorene	<0.77 U
Indeno(1,2,3-cd)pyrene	<0.62 U
Naphthalene	<0.77 U
Phenanthrene	<0.46 U
Pyrene	<0.46 U

Location	PE-04
Sample Name	191_PE-4_20211022
Sample Date	10/22/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.0044 J
Naphthalene	<0.0035 U
Total Xylenes	<0.00087 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<1.4 U
Acenaphthene	0.24 J
Anthracene	1.6
Benzo(a)anthracene	9.1
Benzo(a)pyrene	9.9
Benzo(b)fluoranthene	12
Benzo(k)fluoranthene	3.9
Chrysene	8.6
Dibenz(a,h)anthracene	1.3
Dibenzofuran	0.29 J
Fluoranthene	17
Fluorene	0.26 J
Indeno(1,2,3-cd)pyrene	7.4
Naphthalene	0.81 J
Phenanthrene	4.8
Phenol	<0.95 U
Pyrene	16
Pesticides	
4,4'-DDD	<0.00183 U
4,4'-DDE	<0.00183 U
4,4'-DDT	<0.00343 U
Dieldrin	<0.00114 U
PCBs	
Total PCBs	<0.0372 U
Metals	
Arsenic	2.44
Barium	89.4
Cadmium	0.46 J
Chromium, Trivalent	18
Copper	56.1
Lead	146
Mercury	0.627
Nickel	17.2
Selenium	<1.8 U
Silver	<0.902 U
Zinc	209
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000517
Perfluorooctanoic Acid (PFOA)	0.000101 J

Location	PE-05
Sample Name	193_PE-5_20211025
Sample Date	10/25/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.013
Naphthalene	<0.0038 U
Total Xylenes	<0.00095 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	0.044 J
Anthracene	0.19
Benzo(a)anthracene	0.67
Benzo(a)pyrene	0.8
Benzo(b)fluoranthene	0.97
Benzo(k)fluoranthene	0.29
Chrysene	0.67
Dibenz(a,h)anthracene	0.1 J
Dibenzofuran	0.029 J
Fluoranthene	1.4
Fluorene	0.048 J
Indeno(1,2,3-cd)pyrene	0.55
Naphthalene	0.06 J
Phenanthrene	0.6
Phenol	<0.19 U
Pyrene	1.4
Pesticides	
4,4'-DDD	<0.00176 U
4,4'-DDE	0.00208
4,4'-DDT	0.00581 J
Dieldrin	0.00145 J
PCBs	
Total PCBs	0.0259 J
Metals	
Arsenic	3.95
Barium	86.7
Cadmium	0.52 J
Chromium, Trivalent	24
Copper	46.3
Lead	128
Mercury	0.863
Nickel	16.3
Selenium	1.67 J
Silver	<0.912 U
Zinc	148
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.0006
Perfluorooctanoic Acid (PFOA)	0.000122 J

Location	PE-01
Sample Name	188_PE-1_20211022
Sample Date	10/22/2021
Sample Depth	6-6.5
VOCs	
Acetone	<0.011 U
Naphthalene	<0.0042 U
Total Xylenes	<0.0011 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	0.022 J
Anthracene	0.074 J
Benzo(a)anthracene	0.24
Benzo(a)pyrene	0.24
Benzo(b)fluoranthene	0.3
Benzo(k)fluoranthene	0.1 J
Chrysene	0.25
Dibenz(a,h)anthracene	0.041 J
Dibenzofuran	0.02 J
Fluoranthene	0.46
Fluorene	0.026 J
Indeno(1,2,3-cd)pyrene	0.2
Naphthalene	0.062 J
Phenanthrene	0.23
Phenol	<0.19 U
Pyrene	0.44
Pesticides	
4,4'-DDD	<0.00184 U
4,4'-DDE	0.00379 J
4,4'-DDT	0.00241 J
Dieldrin	<0.00115 U
PCBs	
Total PCBs	0.00524 J
Metals	
Arsenic	1.74
Barium	122
Cadmium	0.513 J
Chromium, Trivalent	22
Copper	73
Lead	178
Mercury	0.46
Nickel	19.9
Selenium	<1.8 U
Silver	<0.9 U
Zinc	176
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000843
Perfluorooctanoic Acid (PFOA)	0.000097 J

Location	PE-03
Sample Name	190_PE-3_20211022
Sample Date	10/22/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.18
Naphthalene	<0.004 U
Total Xylenes	0.00085 J
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.17 J
Acenaphthene	0.068 J
Anthracene	0.22
Benzo(a)anthracene	0.5
Benzo(a)pyrene	0.5
Benzo(b)fluoranthene	0.67
Benzo(k)fluoranthene	0.2
Chrysene	0.51
Dibenz(a,h)anthracene	0.082 J
Dibenzofuran	0.074 J
Fluoranthene	1.1
Fluorene	0.1 J
Indeno(1,2,3-cd)pyrene	0.38
Naphthalene	0.26
Phenanthrene	0.76
Phenol	0.053 J
Pyrene	0.99
Pesticides	
4,4'-DDD	<0.00194 U
4,4'-DDE	0.00297 P
4,4'-DDT	<0.00364 U
Dieldrin	0.00232 P
PCBs	
Total PCBs	<0.0387 U
Metals	
Arsenic	4.89
Barium	137
Cadmium	3.51
Chromium, Trivalent	20
Copper	90.6
Lead	440
Mercury	0.594
Nickel	18.2
Selenium	3.65
Silver	<0.926 U
Zinc	475
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00162
Perfluorooctanoic Acid (PFOA)	0.000155 J

Location	PE-02
Sample Name	189_PE-2_20211022
Sample Date	10/22/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.0071 J
Naphthalene	<0.0058 U
Total Xylenes	<0.0014 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.31 U
Acenaphthene	<0.17 U
Anthracene	<0.13 U
Benzo(a)anthracene	0.039 J
Benzo(a)pyrene	<0.17 U
Benzo(b)fluoranthene	0.046 J
Benzo(k)fluoranthene	<0.13 U
Chrysene	0.034 J
Dibenz(a,h)anthracene	<0.13 U
Dibenzofuran	<0.22 U
Fluoranthene	0.068 J
Fluorene	<0.22 U
Indeno(1,2,3-cd)pyrene	<0.17 U
Naphthalene	<0.22 U
Phenanthrene	0.036 J
Phenol	<0.22 U
Pyrene	0.058 J
Pesticides	
4,4'-DDD	<0.00203 U
4,4'-DDE	0.00284 P
4,4'-DDT	<0.0038 U
Dieldrin	<0.00127 U
PCBs	
Total PCBs	<0.0426 U
Metals	
Arsenic	3.39
Barium	77
Cadmium	0.171 J
Chromium, Trivalent	5.4
Copper	21.3
Lead	55
Mercury	<0.09 U
Nickel	8.84
Selenium	<2.01 U
Silver	<1 U
Zinc	46.3
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000557
Perfluorooctanoic Acid (PFOA)	<0.000309 U

Location	PE-10
Sample Name	199_PE-10_20211025
Sample Date	10/25/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.014
Naphthalene	<0.0036 U
Total Xylenes	<0.00089 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.27 U
Acenaphthene	<0.15 U
Anthracene	<0.11 U
Benzo(a)anthracene	0.08 J
Benzo(a)pyrene	0.088 J
Benzo(b)fluoranthene	0.1 J
Benzo(k)fluoranthene	0.034 J
Chrysene	0.072 J
Dibenz(a,h)anthracene	<0.11 U
Dibenzofuran	<0.19 U
Fluoranthene	0.14
Fluorene	<0.19 U
Indeno(1,2,3-cd)pyrene	0.098 J
Naphthalene	<0.19 U
Phenanthrene	0.066 J
Phenol	<0.19 U
Pyrene	0.13
Pesticides	
4,4'-DDD	<0.00181 U
4,4'-DDE	<0.00181 U
4,4'-DDT	<0.00339 U
Dieldrin	<0.00113 U
PCBs	
Total PCBs	<0.037 U
Metals	
Arsenic	3.41
Barium	103
Cadmium	0.264 J
Chromium, Trivalent	21
Copper	33.1
Lead	144
Mercury	0.375
Nickel	15.3
Selenium	0.776 J
Silver	<0.882 U
Zinc	85.7
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000383
Perfluorooctanoic Acid (PFOA)	0.0001 J

Location	PE-07
Sample Name	196_PE-7_20211025
Sample Date	10/25/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.043
Naphthalene	<0.0051 U
Total Xylenes	<0.0013 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.037 J
Acenaphthene	<0.18 U
Anthracene	<0.13 U
Benzo(a)anthracene	0.11 J
Benzo(a)pyrene	0.14 J
Benzo(b)fluoranthene	0.17
Benzo(k)fluoranthene	0.045 J
Chrysene	0.11 J
Dibenz(a,h)anthracene	<0.13 U
Dibenzofuran	<0.22 U
Fluoranthene	0.21
Fluorene	<0.22 U
Indeno(1,2,3-cd)pyrene	0.14 J
Naphthalene	<0.22 U
Phenanthrene	0.084 J
Phenol	<0.22 U
Pyrene	0.19
Pesticides	
4,4'-DDD	<0.00205 U
4,4'-DDE	<0.00205 U
4,4'-DDT	0.00304 J
Dieldrin	<0.00128 U
PCBs	
Total PCBs	0.00595 J
Metals	
Arsenic	6.03
Barium	134
Cadmium	0.371 J
Chromium, Trivalent	16
Copper	72.8
Lead	202
Mercury	1.25
Nickel	18.6
Selenium	1.37 J
Silver	<1.06 U
Zinc	134
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000735
Perfluorooctanoic Acid (PFOA)	0.000082 J

Location	PE-06	PE-06
Sample Name	194_PE-6_20211025	195_DUP-1
Sample Date	10/25/2021	10/25/2021
Sample Depth	6-6.5	6-6.5
VOCs		
Acetone	0.051 J	0.26 J
Naphthalene	<0.0047 U	<0.0048 U
Total Xylenes	<0.0012 U	0.0023 J
SVOCs		
3 & 4 Methylphenol (m&p Cresol)	0.074 J	0.068 J
Acenaphthene	0.35	0.33
Anthracene	1.7	1.1
Benzo(a)anthracene	3.4	3.1
Benzo(a)pyrene	3.6	3.5
Benzo(b)fluoranthene	4.2	4.1
Benzo(k)fluoranthene	1.1	1
Chrysene	3	2.7
Dibenz(a,h)anthracene	0.42	0.46
Dibenzofuran	0.19 J	0.2
Fluoranthene	8.2	6.5
Fluorene	0.44	0.45
Indeno(1,2,3-cd)pyrene	2.2	2.2
Naphthalene	0.35	0.23
Phenanthrene	4.5	3.2
Phenol	<0.22 U	<0.2 U
Pyrene	7	5.9
Pesticides		
4,4'-DDD	<0.00207 U	<0.00196 U
4,4'-DDE	<0.00207 U	0.00236 J
4,4'-DDT	0.00592 J	0.00771 J
Dieldrin	0.00265 J	0.00302 J
PCBs		
Total PCBs	0.00476 J	0.00818 J
Metals		
Arsenic	4.72	4.94
Barium	63.3 J	169 J
Cadmium	0.251 J	0.502 J
Chromium, Trivalent	4 J	22 J
Copper	47.3 J	88.4 J
Lead	121 J	269 J
Mercury	2.01 J	0.668 J
Nickel	7.26 J	16.1 J
Selenium	2.08	1.16 J
Silver	<1 U	<0.984 U
Zinc	106 J	228 J
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	0.00106	0.00119
Perfluorooctanoic Acid (PFOA)	0.000073 J	0.000093 J

Location	PE-09
Sample Name	198_PE-9_20211025
Sample Date	10/25/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.04
Naphthalene	<0.0053 U
Total Xylenes	<0.0013 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.081 J
Acenaphthene	0.89
Anthracene	1.7
Benzo(a)anthracene	2.4
Benzo(a)pyrene	2.3
Benzo(b)fluoranthene	2.9
Benzo(k)fluoranthene	0.75
Chrysene	2.2
Dibenz(a,h)anthracene	0.28
Dibenzofuran	0.75
Fluoranthene	6
Fluorene	1.1
Indeno(1,2,3-cd)pyrene	1.3
Naphthalene	1.2
Phenanthrene	6.5
Phenol	<0.22 U
Pyrene	5.1
Pesticides	
4,4'-DDD	0.0015 J
4,4'-DDE	0.00802
4,4'-DDT	0.0101
Dieldrin	0.00569
PCBs	
Total PCBs	0.0145 J
Metals	
Arsenic	5.07
Barium	134
Cadmium	0.56 J
Chromium, Trivalent	21
Copper	84
Lead	233
Mercury	0.704
Nickel	20.9
Selenium	1.37 J
Silver	0.465 J
Zinc	209
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00208
Perfluorooctanoic Acid (PFOA)	0.000086 J

Location	PE-58
Sample Name	267_PE-58_20220112
Sample Date	1/12/2022
Sample Depth	7-7.5
Metals	
Arsenic	10
Barium	129
Cadmium	0.755 J
Copper	383
Lead	273
Mercury	0.213
Nickel	14.2
Selenium	3.64
Silver	<1.03 U
Zinc	320

Location	PE-59	PE-59
Sample Name	268_PE-59_20220112	269_DUP-3
Sample Date	1/12/2022	1/12/2022
Sample Depth	7-7.5	7-7.5
VOCs		
Acetone	0.12 J	0.13 J
Naphthalene	0.0035 J	0.0043 J
Total Xylenes	0.0071 J	0.0082 J
SVOCs		
3 & 4 Methylphenol (m&p Cresol)	0.2 J	0.093 J
Acenaphthene	1.1 J	0.24 J
Anthracene	1.9 J	0.22 J
Benzo(a)anthracene	4 J	0.56 J
Benzo(a)pyrene	3 J	0.49 J
Benzo(b)fluoranthene	4.1 J	0.54 J
Benzo(k)fluoranthene	1.3 J	0.18 J
Chrysene	3.9 J	0.69 J
Dibenz(a,h)anthracene	0.32	0.082 J
Dibenzofuran	0.32	0.063 J
Fluoranthene	7.1 J	0.92 J
Fluorene	0.97 J	0.24 J
Indeno(1,2,3-cd)pyrene	1.4 J	0.29 J
Naphthalene	0.18 J	0.072 J
Phenanthrene	6.7 J	0.91 J
Phenol	<0.23 U	<0.22 U
Pyrene	7.2 J	1.1 J
Pesticides		
4,4'-DDD	<0.0111 U	<0.0104 U
4,4'-DDE	<0.0111 U	<0.0104 U
4,4'-DDT	<0.0209 U	<0.0194 U
Dieldrin	<0.00696 U	<0.00647 U
PCBs		
Total PCBs	<0.0466 U	<0.0427 U
Metals		
Arsenic	9.97	6.1
Barium	115	139
Cadmium	0.667 J	0.432 J
Chromium, Trivalent	51 J	11 J
Copper	69.7 J	33.3 J
Lead	295	183
Mercury	2.63 J	0.795 J
Nickel	21.2 J	12.1 J
Selenium	2.15	1.15 J
Silver	<1.08 U	<1.05 U
Zinc	207	148
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	0.000205 J	0.000206 J
Perfluorooctanoic Acid (PFOA)	<0.000335 U	<0.000314 U

Location	PE-57
Sample Name	266_PE-57_20220112
Sample Date	1/12/2022
Sample Depth	7-7.5
Metals	
Arsenic	3.61
Barium	68.1
Cadmium	0.341 J
Copper	43.6
Lead	87.1
Mercury	0.562
Nickel	10.1
Selenium	0.813 J
Silver	<1 U
Zinc	87.8

Location	PE-56
Sample Name	265_PE-56_20220112
Sample Date	1/12/2022
Sample Depth	7-7.5
Metals	
Arsenic	9.74
Barium	116
Cadmium	0.716 J
Copper	99.6
Lead	488
Mercury	0.642
Nickel	16.1
Selenium	2.07 J
Silver	<1.16 U
Zinc	189

Location	PE-53
Sample Name	254_PE-53_20220112
Sample Date	1/12/2022
Sample Depth	9-9.5
VOCs	
Naphthalene	0.0053 J
Total Xylenes	0.0054 J
SVOCs	
Acenaphthene	<0.19 U
Anthracene	0.19
Benzo(a)anthracene	0.58
Benzo(a)pyrene	0.4
Benzo(b)fluoranthene	0.48
Benzo(k)fluoranthene	0.17
Chrysene	0.68
Dibenz(a,h)anthracene	0.065 J
Fluoranthene	0.85
Fluorene	0.2 J
Indeno(1,2,3-cd)pyrene	0.2
Naphthalene	<0.24 U
Phenanthrene	0.59
Pyrene	1.1

Location	PE-60
Sample Name	271_PE-60_20220113
Sample Date	1/13/2022
Sample Depth	7-7.5
VOCs	
Acetone	0.02 J
Naphthalene	0.0022 J
Total Xylenes	<0.001 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.1 J
Acenaphthene	0.34
Anthracene	0.59
Benzo(a)anthracene	1.1
Benzo(a)pyrene	0.77
Benzo(b)fluoranthene	0.88
Benzo(k)fluoranthene	0.38
Chrysene	1.2
Dibenz(a,h)anthracene	0.1 J
Dibenzofuran	0.16 J
Fluoranthene	2
Fluorene	0.33
Indeno(1,2,3-cd)pyrene	0.36
Naphthalene	0.16 J
Phenanthrene	1.6
Phenol	<0.21 U
Pyrene	2.2
Pesticides	
4,4'-DDD	0.0109 J
4,4'-DDE	0.00703 J
4,4'-DDT	<0.037 U
Dieldrin	0.00629 J
PCBs	
Total PCBs	0.0603 J
Metals	
Arsenic	5.13
Barium	60.9
Cadmium	<0.973 U
Chromium, Trivalent	18
Copper	42.9
Lead	87 J
Mercury	147 J
Nickel	19.3 J
Selenium	1.96
Silver	<0.973 U
Zinc	147 J
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000672
Perfluorooctanoic Acid (PFOA)	0.000078 J

Location	PE-72
Sample Name	287_PE-72_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	0.018 J
Naphthalene	<0.012 U
Total Xylenes	<0.003 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.34 U
Acenaphthene	0.069 J
Anthracene	0.24
Benzo(a)anthracene	0.96
Benzo(a)pyrene	1.1
Benzo(b)fluoranthene	1.4
Benzo(k)fluoranthene	0.45
Chrysene	0.97
Dibenz(a,h)anthracene	0.18
Dibenzofuran	0.058 J
Fluoranthene	1.6
Fluorene	0.058 J
Indeno(1,2,3-cd)pyrene	0.93
Naphthalene	0.18 J
Phenanthrene	0.83
Phenol	<0.24 U
Pyrene	1.5
Pesticides	
4,4'-DDD	<0.00228 U
4,4'-DDE	<0.00228 U
4,4'-DDT	<0.00427 U
Dieldrin	<0.00142 U
PCBs	
Total PCBs	<0.0464 U
Metals	
Arsenic	9.21
Barium	153
Cadmium	0.703 J
Chromium, Trivalent	33
Copper	101
Lead	479
Mercury	2.3
Nickel	20.4
Selenium	0.926 J
Silver	0.368 J
Zinc	310
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.00031 U
Perfluorooctanoic Acid (PFOA)	<0.00031 U

Location	PE-71
Sample Name	286_PE-71_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.014 U
Naphthalene	<0.0057 U
Total Xylenes	<0.0014 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.051 J
Acenaphthene	0.59
Anthracene	1.7
Benzo(a)anthracene	4.2
Benzo(a)pyrene	4
Benzo(b)fluoranthene	5.1
Benzo(k)fluoranthene	1.6
Chrysene	4.4
Dibenz(a,h)anthracene	0.58
Dibenzofuran	0.32
Fluoranthene	9
Fluorene	0.55
Indeno(1,2,3-cd)pyrene	2.8
Naphthalene	0.32
Phenanthrene	6.4
Phenol	<0.2 U
Pyrene	8.8
Pesticides	
4,4'-DDD	0.00478 J
4,4'-DDE	0.0024 J
4,4'-DDT	<0.0172 UJ
Dieldrin	<0.00574 UJ
PCBs	
Total PCBs	<0.0382 U
Metals	
Arsenic	5.44
Barium	169
Cadmium	0.805 J
Chromium, Trivalent	30
Copper	66.6
Lead	305
Mercury	0.738
Nickel	29.7
Selenium	2.44
Silver	<0.936 U
Zinc	248
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000393
Perfluorooctanoic Acid (PFOA)	<0.000277 U

Location	PE-70
Sample Name	285_PE-70_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.013 U
Naphthalene	<0.0053 U
Total Xylenes	<0.0013 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.29 U
Acenaphthene	0.76
Anthracene	1.5
Benzo(a)anthracene	3
Benzo(a)pyrene	2.7
Benzo(b)fluoranthene	3.4
Benzo(k)fluoranthene	1.3
Chrysene	2.7
Dibenz(a,h)anthracene	0.42
Dibenzofuran	0.45
Fluoranthene	6.4
Fluorene	0.55
Indeno(1,2,3-cd)pyrene	2
Naphthalene	0.22
Phenanthrene	6.1
Phenol	<0.2 U
Pyrene	5.2
Pesticides	
4,4'-DDD	<0.00971 U
4,4'-DDE	0.00711 J
4,4'-DDT	0.00874 J
Dieldrin	0.00591 J
PCBs	
Total PCBs	0.0133 J
Metals	
Arsenic	6.95
Barium	109
Cadmium	1.36
Chromium, Trivalent	30
Copper	99.1
Lead	249
Mercury	0.786
Nickel	28.9
Selenium	0.736 J
Silver	<0.931 U
Zinc	323
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00198
Perfluorooctanoic Acid (PFOA)	0.000111 J

Location	PE-61
Sample Name	272_PE-61_20220113
Sample Date	1/13/2022
Sample Depth	10-10.5
VOCs	
Naphthalene	<0.0063 U
Total Xylenes	<0.0016 U
SVOCs	
Acenaphthene	3.4
Anthracene	6.8
Benzo(a)anthracene	12
Benzo(a)pyrene	9.4
Benzo(b)fluoranthene	12
Benzo(k)fluoranthene	3.6
Chrysene	12
Dibenz(a,h)anthracene	1.4
Fluoranthene	28
Fluorene	3.8
Indeno(1,2,3-cd)pyrene	5.5
Naphthalene	1.1
Phenanthrene	29
Pyrene	24

Location	PE-69
Sample Name	284_PE-69_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.018 U
Naphthalene	<0.007 U
Total Xylenes	<0.0018 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.32 U
Acenaphthene	<0.18 U
Anthracene	0.12 J
Benzo(a)anthracene	0.43
Benzo(a)pyrene	0.46
Benzo(b)fluoranthene	0.63
Benzo(k)fluoranthene	0.22
Chrysene	0.46
Dibenz(a,h)anthracene	0.087 J
Dibenzofuran	<0.22 U
Fluoranthene	0.78
Fluorene	0.027 J
Indeno(1,2,3-cd)pyrene	0.39
Naphthalene	0.035 J
Phenanthrene	0.35
Phenol	<0.22 U
Pyrene	0.67
Pesticides	
4,4'-DDD	<0.0212 U
4,4'-DDE	0.0226 J
4,4'-DDT	0.0245 J
Dieldrin	0.0146 J
PCBs	
Total PCBs	0.0313 J
Metals	
Arsenic	4.12
Barium	115
Cadmium	0.997 J
Chromium, Trivalent	24
Copper	56.9
Lead	183
Mercury	0.918
Nickel	29.2
Selenium	0.411 J
Silver	<1.03 U
Zinc	383
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00131
Perfluorooctanoic Acid (PFOA)	0.000077 J

Location	PE-62
Sample Name	273_PE-62_20220113
Sample Date	1/13/2022
Sample Depth	8-8.5
VOCs	
Acetone	0.076 J
Naphthalene	0.0026 J
Total Xylenes	0.0018 J
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.2 J
Acenaphthene	0.18
Anthracene	0.2
Benzo(a)anthracene	0.46
Benzo(a)pyrene	0.32
Benzo(b)fluoranthene	0.39
Benzo(k)fluoranthene	0.15
Chrysene	0.52
Dibenz(a,h)anthracene	0.05 J
Dibenzofuran	0.072 J
Fluoranthene	0.74
Fluorene	0.14 J
Indeno(1,2,3-cd)pyrene	0.16 J
Naphthalene	0.18 J
Phenanthrene	0.71
Phenol	<0.22 U
Pyrene	0.9
Pesticides	
4,4'-DDD	0.0166 J
4,4'-DDE	<0.0206 U
4,4'-DDT	<0.0386 U
Dieldrin	0.0109 J
PCBs	
Total PCBs	0.0668 J
Metals	
Arsenic	4.43
Barium	98.6
Cadmium	<1.02 U
Chromium, Trivalent	17
Copper	38.2
Lead	196
Mercury	0.933
Nickel	15.4
Selenium	0.498 J
Silver	<1.02 U
Zinc	162
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00151
Perfluorooctanoic Acid (PFOA)	0.000081 J

Location	PE-68
Sample Name	283_PE-68_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.018 U
Naphthalene	<0.0074 U
Total Xylenes	<0.0018 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.046 J
Acenaphthene	0.12 J
Anthracene	0.46
Benzo(a)anthracene	1.3
Benzo(a)pyrene	1.7
Benzo(b)fluoranthene	2
Benzo(k)fluoranthene	0.52
Chrysene	1.6
Dibenz(a,h)anthracene	0.25
Dibenzofuran	0.096 J
Fluoranthene	2.8
Fluorene	0.18 J
Indeno(1,2,3-cd)pyrene	1.2
Naphthalene	0.17 J
Phenanthrene	1.6
Phenol	<0.21 U
Pyrene	2.8
Pesticides	
4,4'-DDD	0.00563 J
4,4'-DDE	0.00488 J
4,4'-DDT	<0.0191 U
Dieldrin	0.0113
PCBs	
Total PCBs	0.0402 J
Metals	
Arsenic	4.81
Barium	93.8
Cadmium	0.608 J
Chromium, Trivalent	14
Copper	84.1
Lead	256
Mercury	0.924
Nickel	13.8
Selenium	1.17 J
Silver	0.415 J
Zinc	190
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00417
Perfluorooctanoic Acid (PFOA)	0.000094 J

Location	PE-67
Sample Name	282_PE-67_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.018 U
Naphthalene	<0.0074 U
Total Xylenes	<0.0018 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.34 U
Acenaphthene	0.033 J
Anthracene	0.13 J
Benzo(a)anthracene	0.62
Benzo(a)pyrene	0.75
Benzo(b)fluoranthene	0.9
Benzo(k)fluoranthene	0.28
Chrysene	0.62
Dibenz(a,h)anthracene	0.1 J
Dibenzofuran	0.023 J
Fluoranthene	1
Fluorene	0.037 J
Indeno(1,2,3-cd)pyrene	0.58
Naphthalene	0.074 J
Phenanthrene	0.4
Phenol	<0.24 U
Pyrene	0.92
Pesticides	
4,4'-DDD	<0.00231 U
4,4'-DDE	0.00402
4,4'-DDT	0.0071 J
Dieldrin	0.00607
PCBs	
Total PCBs	0.0287 J
Metals	
Arsenic	5.79
Barium	137
Cadmium	0.878 J
Chromium, Trivalent	17
Copper	87.6
Lead	512
Mercury	0.943
Nickel	16.5
Selenium	<2.2 U
Silver	0.318 J
Zinc	282
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00259
Perfluorooctanoic Acid (PFOA)	0.000089 J

Location	PE-66
Sample Name	281_PE-66_20220118
Sample Date	1/18/2022
Sample Depth	0-1
VOCs	
Acetone	<0.012 UJ
Naphthalene	<0.005 UJ
Total Xylenes	<0.0012 UJ
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.086 J
Acenaphthene	0.12 J
Anthracene	0.59
Benzo(a)anthracene	2
Benzo(a)pyrene	2.5
Benzo(b)fluoranthene	3
Benzo(k)fluoranthene	0.82
Chrysene	1.8
Dibenz(a,h)anthracene	0.35
Dibenzofuran	0.12 J
Fluoranthene	3.6
Fluorene	0.21
Indeno(1,2,3-cd)pyrene	1.8
Naphthalene	0.46
Phenanthrene	1.7
Phenol	0.047 J
Pyrene	3.2
Pesticides	
4,4'-DDD	<0.00244 U
4,4'-DDE	0.00315
4,4'-DDT	0.00778 J
Dieldrin	0.00149 J
PCBs	
Total PCBs	<0.0404 U
Metals	
Arsenic	5.84
Barium	134
Cadmium	0.652 J
Chromium, Trivalent	19
Copper	148
Lead	232
Mercury	2.22
Nickel	17.6
Selenium	0.585 J
Silver	<0.959 U
Zinc	214
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000878
Perfluorooctanoic Acid (PFOA)	<0.000292 U

Location	PE-63
Sample Name	275_PE-63_20220114
Sample Date	1/14/2022
Sample Depth	9-9.5
VOCs	
Naphthalene	<0.0069 U
Total Xylenes	<0.0017 U
SVOCs	
Acenaphthene	<0.2 U
Anthracene	<0.15 U
Benzo(a)anthracene	0.029 J
Benzo(a)pyrene	<0.2 U
Benzo(b)fluoranthene	<0.15 U
Benzo(k)fluoranthene	<0.15 U
Chrysene	<0.15 U
Dibenz(a,h)anthracene	<0.15 U
Fluoranthene	0.05 J
Fluorene	<0.26 U
Indeno(1,2,3-cd)pyrene	<0.2 U
Naphthalene	<0.26 U
Phenanthrene	<0.15 U
Pyrene	0.052 J

Location	PE-11
Sample Name	200_PE-11_20211025
Sample Date	10/25/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.024
Naphthalene	<0.0038 U
Total Xylenes	<0.00096 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	<0.28 U
Acenaphthene	0.028 J
Anthracene	0.071 J
Benzo(a)anthracene	0.21
Benzo(a)pyrene	0.24
Benzo(b)fluoranthene	0.3
Benzo(k)fluoranthene	0.071 J
Chrysene	0.21
Dibenz(a,h)anthracene	0.031 J
Dibenzofuran	<0.19 U
Fluoranthene	0.41
Fluorene	0.028 J
Indeno(1,2,3-cd)pyrene	0.19
Naphthalene	0.058 J
Phenanthrene	0.22
Phenol	<0.19 U
Pyrene	0.4
Pesticides	
4,4'-DDD	<0.00186 U
4,4'-DDE	0.0022 J
4,4'-DDT	0.00469 J
Dieldrin	0.00193 J
PCBs	
Total PCBs	0.00492 J
Metals	
Arsenic	4.02
Barium	84.2
Cadmium	0.359 J
Chromium, Trivalent	17
Copper	40.7
Lead	123
Mercury	0.447
Nickel	14.1
Selenium	0.98 J
Silver	<0.899 U
Zinc	108
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.000394
Perfluorooctanoic Acid (PFOA)	0.000103 J

Location	PE-08
Sample Name	197_PE-8_20211025
Sample Date	10/25/2021
Sample Depth	6-6.5
VOCs	
Acetone	0.051
Naphthalene	<0.005 U
Total Xylenes	<0.0013 U
SVOCs	
3 & 4 Methylphenol (m&p Cresol)	0.28 J
Acenaphthene	0.22
Anthracene	0.57
Benzo(a)anthracene	1.3
Benzo(a)pyrene	1.4
Benzo(b)fluoranthene	1.8
Benzo(k)fluoranthene	0.52
Chrysene	1.4
Dibenz(a,h)anthracene	0.19
Dibenzofuran	0.19 J
Fluoranthene	3.6
Fluorene	0.31
Indeno(1,2,3-cd)pyrene	0.84
Naphthalene	0.27
Phenanthrene	3
Phenol	0.048 J
Pyrene	3.2
Pesticides	
4,4'-DDD	0.00628 J
4,4'-DDE	0.00725 J
4,4'-DDT	0.0262 J
Dieldrin	0.00258 J
PCBs	
Total PCBs	0.0256 J
Metals	
Arsenic	5.86
Barium	167 J
Cadmium	0.545 J
Chromium, Trivalent	17
Copper	71.4 J
Lead	254 J
Mercury	1.06 J
Nickel	13.7
Selenium	1.46 J
Silver	0.447 J
Zinc	228 J
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.00274
Perfluorooctanoic Acid (PFOA)	0.000126 J

Analyte	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Commercial SCOs
VOCs			
Acetone	0.05	0.05	500
Naphthalene	12	12	500
Total Xylenes	0.26	1.6	500
SVOCs			
3 & 4 Methylphenol (m&p Cresol)	0.33	0.33	500
Acenaphthene	20	98	500
Anthracene	100	1000	500
Benzo(a)anthracene	1	1	5.6
Benzo(a)pyrene	1	22	1
Benzo(b)fluoranthene	1	1.7	5.6
Benzo(k)fluoranthene	0.8	1.7	56
Chrysene	1	1	56
Dibenz(a,h)anthracene	0.33	1000	0.56
Dibenzofuran	7	210	350
Fluoranthene	100	1000	500
Fluorene	30	386	500
Indeno(1,2,3-cd)pyrene	0.5	8.2	5.6
Naphthalene	12	12	500
Phenanthrene	100	1000	500
Phenol	0.33	0.33	500
Pyrene	100	1000	500
Pesticides			
4,4'-DDD	0.0033	14	92
4,4'-DDE	0.0033	17	62
4,4'-DDT	0.0033	136	47
Dieldrin	0.005	0.1	1.4
PCBs			
Total PCBs	0.1	3.2	1
Metals			
Arsenic	13	16	16
Barium	350	820	400
Cadmium	2.5	7.5	9.3
Chromium, Trivalent	30		1500
Copper	50	1720	270
Lead	63	450	1000
Mercury	0.18	0.73	2.8
Nickel	30	130	310
Selenium	3.9	4	1500
Silver	2	8.3	1500
Zinc	109	2480	10000
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.00088	0.0037	0.44
Perfluorooctanoic Acid (PFOA)	0.00066	0.0011	0.5

Exceedance Summary:
10 - Result exceeds Unrestricted Use SCOs
10 - Result exceeds Protection of Groundwater SCOs
10 - Result exceeds Restricted Use Commercial SCOs

Legend

- Bottom Documentation Samples
- Hot Spot Documentation Samples
- Perimeter Documentation Samples
- Spill No. 1902392 Documentation Samples
- Site Boundary
- Cellar Footprint
- AOC-1 Extents
- Underground Storage Tank
- Excavation up to approximately 12 feet below ground surface (bgs) for remediation of Spill no.1902392
- Excavation to between approximately 5 and 10 feet bgs throughout (el 7 feet NAVD88) for construction of the cellar
- Excavation to between approximately 11.5 to 15 feet bgs for stormwater tank installation and remediation of PAHs and metals (LSB-36)
- Excavation to approximately 15 feet bgs for remediation of PAHs (LSB-37)
- Excavation to approximately 15 feet bgs for remediation of metals (LSB-39)
- Excavation to approximately 7 feet bgs for remediation of metals (LSB-40)

WARNING:
IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

0 15 30

Notes:
1. Site boundary from Topographic, Boundary, and Utility Survey prepared by Langan dated 19 August 2020.
2. Cellar Footprint shown according to Cellar Slab. As Built Top of Slab prepared by StructureTech dated 29 April 2022.
3. Excavation depths/extents and sample locations/depths are approximate and are based on visual observation and field-taping measurements obtained by the Langan representative.
4. End point samples were collected at the final excavation depth for site redevelopment.

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NEW JERSEY NEW YORK VIRGINIA CALIFORNIA PENNSYLVANIA CONNECTICUT FLORIDA
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Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan

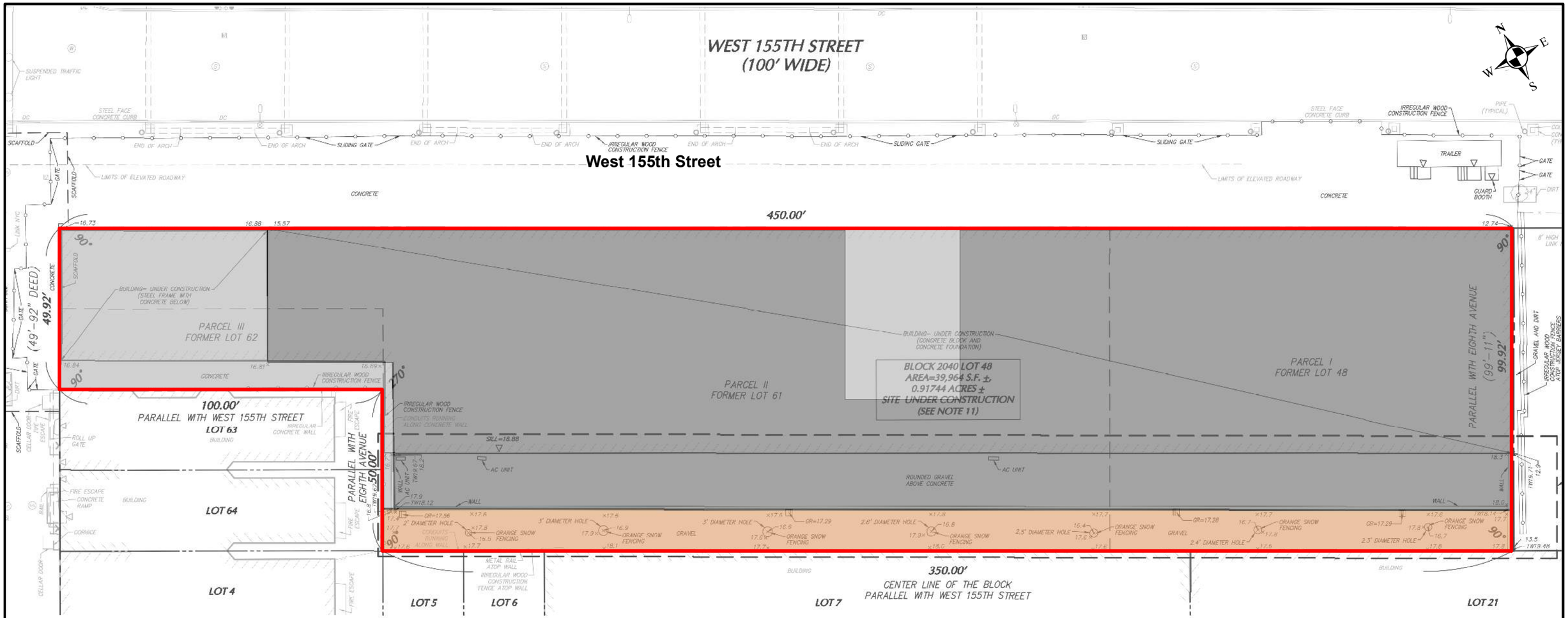
Project
280 WEST 155TH STREET DEVELOPMENT
NYSDEC BCP Site No.: C231138
BLOCK No. 2040, LOT No. 48
(Former Lots 48, 61 and 62)
MANHATTAN NEW YORK

Drawing Title
POST EXCAVATION AND DELINEATION SAMPLING ANALYTICAL RESULTS - EAST

Project No. 100765102
Date 12/19/2022
Scale 1"=15'
Drawn By IHB
Figure 5D

© 2013 Langan

Path: \\langan.com\data\PAR\data1\100765102\Project Data\ArcGIS\MXD\Environmental_Figures\2022-09 - FER\Figure 5D - PE and Delineation Sampling Map East.mxd Date: 12/19/2022 User: ibaker Time: 4:05:39 PM



Legend

- Site Boundary
- 8 to 16 inch-thick concrete basement slab
- 8-inch thick concrete cover at street level
- 1-foot of Item #4 Dense Graded Aggregate over Demarcation Layer overlying unexcavated soil

30 0 30
SCALE IN FEET

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Notes:
1. Site boundary, basemap, and extent and thickness of Item #4 DGA obtained from Partial Topographic Survey prepared by Langan dated 12 October 2022 revised 6 December 2022.
2. Concrete basement slab extents and thickness obtained from Cellar Slab As Built Top of Slab prepared by StructureTech dated 29 April 2022.
3. Loading dock along West 155th Street extents and thickness obtained from S-101 Partial First Floor Framing Plan prepared by Gace Consulting Engineers DPC dated 11 February 2022.
4. Parking Lot along Eighth Avenue/Frederick Douglass Boulevard extents and thickness obtained from C-101 Layout and Materials Plan by Vanasse Hangen Brustlin, Inc.

STATE OF NEW YORK — SATYAJIT A. VAIDYA — 089797-1 — LICENSED PROFESSIONAL ENGINEER

12/19/22
NAME DATE

PROFESSIONAL SATYAJIT A. VAIDYA, P.E.
PROFESSIONAL ENGINEER N.Y. LIC. No. 089797-1

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Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan

Project	280 WEST 155TH STREET DEVELOPMENT NYSDEC BCP Site No.: C231138 BLOCK No. 2040, LOT No. 48 (Former Lots 48, 61 and 62) MANHATTAN NEW YORK NEW JERSEY
Drawing Title	COMPOSITE COVER MAP
Project No.	100765102
Date	12/19/2022
Scale	1 " = 30 '
Drawn By	IHB
Figure	6

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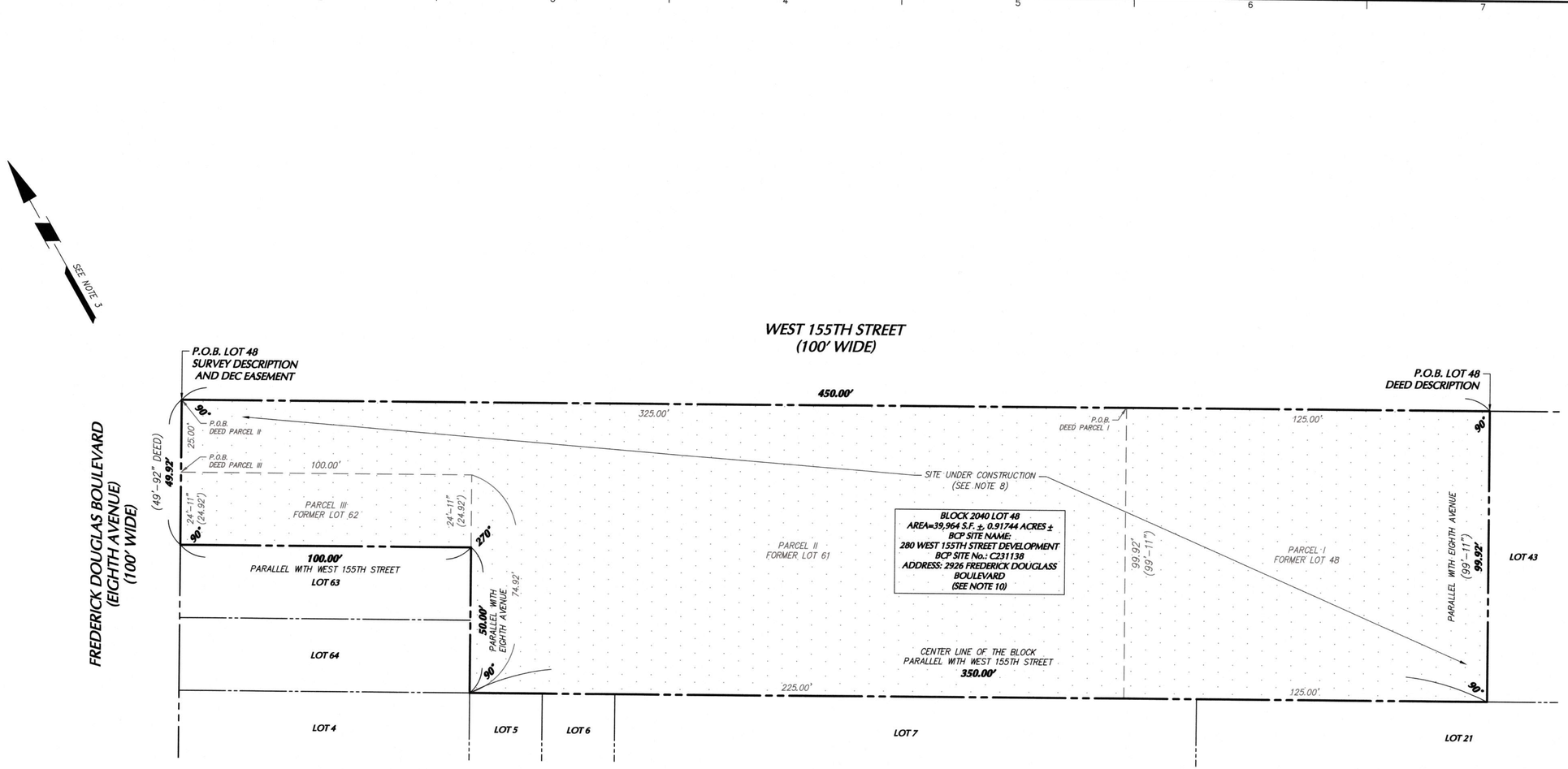
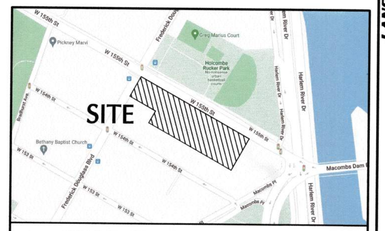
APPENDIX A

ENVIRONMENTAL EASEMENT





PROJECT LOCATION MAP

SCALE: NOT TO SCALE

SOURCE:
HTTPS://WWW.NGS.NOAA.GOV/NGSDATAEXPLORER/

NOTES

1. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
   - A. BOROUGH OF MANHATTAN SECTIONAL MAP NO. 123.
   - B. NYC DEPARTMENT OF FINANCE TAX MAP FOR MANHATTAN BLOCK 2040, EFFECTIVE 01/06/2019 08:56:44.
   - C. "TOPOGRAPHIC, BOUNDARY, AND UTILITY SURVEY, 2924 8TH AVENUE", BY LANGAN, PROJECT NO. 100765102, DRAWING NO. V8101, DATED 08/19/2020, LAST REVISED 08/11/2021.
   - D. CRFN: 2020000324588, RECORDED/FILED 11/19/2020 10:18 [DEED]
   - E. "NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION BROWNFIELD CLEANUP PROGRAM, BROWNFIELD SITE CLEANUP AGREEMENT, INDEX NO. C231138-12-19, 280 WEST 155TH STREET DEVELOPMENT, DEC SITE NO.: C231138, SIGNED AND DATED 01/02/2020 BY MICHAEL J. RYAN, P.E., DIRECTOR, DIVISION OF ENVIRONMENTAL REMEDIATION.
   - F. "BROWNFIELD CLEANUP PROGRAM (BCP) APPLICATION TO AMEND BROWNFIELD CLEANUP AGREEMENT AND AMENDMENT", BCP SITE NO.: C231138, SIGNED AND DATED 04/15/2021.
   - G. "BROWNFIELD CLEANUP PROGRAM (BCP) APPLICATION TO AMEND BROWNFIELD CLEANUP AGREEMENT AND AMENDMENT", BCP SITE NO.: C231138– TO BE FILED FOR CHANGE OF ADDRESS.
2. THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE FOLLOWING FACTS AS REVEALED BY THE HEREON REFERENCED INFORMATION. THE INFORMATION SHOWN HEREON DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION THAT MAY AFFECT THE QUALITY OF TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT.
3. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NYLI NAD 83 AS ESTABLISHED USING SURVEY-GRADE GNSS EQUIPMENT.
4. STREET NAMES, R.O.W. WIDTHS, BLOCK, AND LOT NUMBERS AS PER MAPS REFERENCED IN NOTES 1A THROUGH 1G.
5. OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED IN CONSTRUCTION OF ANY TYPE.
6. WETLANDS, ENVIRONMENTAL, AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.
7. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND THE LOCATIONS WHERE DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.

   ADDITIONAL UTILITY (WATER, GAS, ELECTRIC, ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.

   UNLESS SPECIFICALLY NOTED HEREON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

   PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

   UNLESS NOTED BELOW SUPPLEMENTAL DOCUMENTS WERE NOT USED TO COMPILE THE SUBSURFACE UTILITY INFORMATION SHOWN HEREON.
8. BLOCK 2040 LOT 48 IS CURRENTLY UNDER CONSTRUCTION.
9. EASEMENTS, LIMITING PLANES, AND/OR OTHER ENCUMBRANCES, IF ANY, IN ADDITION TO THE PROPOSED DEC EASEMENT ARE NOT SHOWN.
10. BCP SITE NAME AND SITE NUMBER PER DOCUMENTS REFERENCED IN NOTES 1E THROUGH 1G. ADDRESS PER DOCUMENT REFERENCED IN NOTE 1G.
11. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
12. THIS PLAN NOT VALID UNLESS EMBOSSED OR BLUE INK STAMPED WITH THE SEAL OF THE PROFESSIONAL.

LEGEND (NOT SHOWN TO SCALE)

- P.O.B. — POINT OF BEGINNING
- S.F. — SQUARE FEET
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- DEC EASEMENT
- FORMER LOT LINE

6.096 0 1.524 3.048 6.096
SCALE: 1 INCH = 6.096 METERS

20 0 5 10 20
SCALE: 1 INCH = 20 FEET

SURVEY DESCRIPTION
DEC EASEMENT AND BLOCK 2040 LOT 48

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF MANHATTAN, COUNTY, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY SIDE OF EIGHTH AVENUE AND THE SOUTHERLY SIDE OF WEST 155TH STREET;

RUNNING THENCE EASTERLY ALONG SAID SOUTHERLY LINE OF WEST 155TH STREET, 450.00 FEET;

RUNNING THENCE SOUTHERLY PARALLEL WITH THE SAID EASTERLY SIDE OF EIGHTH AVENUE, 99.92 FEET TO THE CENTER LINE OF THE BLOCK;

THENCE WESTERLY ALONG THE SAID CENTER LINE OF THE BLOCK, 350.00 FEET;

THENCE NORTHERLY AGAIN PARALLEL WITH THE SAID EASTERLY SIDE OF EIGHTH, 50.00 FEET;

THENCE WESTERLY AGAIN PARALLEL WITH THE SAID SOUTHERLY SIDE OF WEST 155TH STREET, 100.00 FEET; AND

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF EIGHTH AVENUE (FREDERICK DOUGLASS BOULEVARD), 49.92 FEET, TO THE POINT OR PLACE OF BEGINNING.

ENCOMPASSING AN AREA OF 0.91744 ACRES, MORE OR LESS.

DEED DESCRIPTION
PER CRFN: 2020000324588 (SEE NOTE 1D)

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF MANHATTAN, COUNTY, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTHERLY SIDE OF WEST 155TH STREET, DISTANT 450 FEET EASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY SIDE OF EIGHTH AVENUE AND THE SAID SOUTHERLY SIDE OF WEST 155TH STREET;

RUNNING THENCE SOUTHERLY PARALLEL WITH THE SAID EASTERLY SIDE OF EIGHTH AVENUE, 99.92 FEET TO THE CENTER LINE OF THE BLOCK;

THENCE WESTERLY ALONG THE SAID CENTER LINE OF THE BLOCK, 350 FEET;

THENCE NORTHERLY AGAIN PARALLEL WITH THE SAID EASTERLY SIDE OF EIGHTH, 50 FEET;

THENCE WESTERLY AGAIN PARALLEL WITH THE SAID SOUTHERLY SIDE OF WEST 155TH STREET, 100 FEET; AND

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF EIGHTH AVENUE (FREDERICK DOUGLASS BOULEVARD), 49 FEET 92 INCHES, TO THE POINT OR PLACE OF BEGINNING.

BEING THE SAME PROPERTY CONVEYED TO 280 W 155 ST OWNER LLC, A DELAWARE LIMITED LIABILITY COMPANY, BY BARGAIN AND SALE DEED WITH COVENANTS AGAINST GRANTOR'S ACTS, DATED FEBRUARY 8, 2019, FROM CACTUS OF HARLEM, LLC, RECORDED FEBRUARY 13, 2019, IN CRFN 2019000056857 AND DESCRIBED AS FOLLOWS:

AS TO PARCEL I – (BLOCK 2040 FORMERLY LOT 48):

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF MANHATTAN, COUNTY, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTHERLY SIDE OF WEST 155TH STREET, DISTANT 325 FEET EASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY SIDE OF EIGHTH AVENUE AND THE SAID SOUTHERLY SIDE OF WEST 155TH STREET;

RUNNING THENCE SOUTHERLY PARALLEL WITH THE SAID EASTERLY SIDE OF EIGHTH AVENUE, 99 FEET 11 INCHES TO THE CENTER LINE OF THE BLOCK;

THENCE EASTERLY ALONG THE SAID CENTER LINE OF THE BLOCK, 125 FEET;

THENCE NORTHERLY AGAIN PARALLEL WITH THE SAID EASTERLY SIDE OF EIGHTH AVENUE AND PART OF THE DISTANCE THROUGH A PARTY WALL, 99 FEET 11 INCHES TO THE SAID SOUTHERLY SIDE OF WEST 155TH STREET;

THENCE WESTERLY ALONG THE SAID SOUTHERLY SIDE OF WEST 155TH STREET, 125 FEET TO THE POINT OR PLACE OF BEGINNING.

AS TO PARCEL II – (BLOCK 2040 FORMERLY LOT 61):

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF MANHATTAN, COUNTY, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF WEST 155TH STREET WITH THE EASTERLY SIDE OF FREDERICK DOUGLASS BOULEVARD;

RUNNING THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF WEST 155TH STREET, A DISTANCE OF 325.00 FEET; RUNNING THENCE SOUTHERLY AT RIGHT ANGLES TO THE LAST MENTIONED COURSE, A DISTANCE OF 99.92 FEET; RUNNING THENCE WESTERLY AT RIGHT ANGLES TO THE LAST MENTIONED COURSE, A DISTANCE OF 225.00 FEET; RUNNING THENCE NORTHERLY AT RIGHT ANGLES TO THE LAST MENTIONED COURSE, A DISTANCE OF 74.92 FEET;

RUNNING THENCE WESTERLY AT RIGHT ANGLES TO THE LAST MENTIONED COURSE, A DISTANCE OF 100.00 FEET TO THE EASTERLY SIDE OF FREDERICK DOUGLASS BOULEVARD;

RUNNING THENCE NORTHERLY ALONG THE EASTERLY SIDE OF FREDERICK DOUGLASS BOULEVARD, 25.00 FEET TO THE POINT OR PLACE OF BEGINNING.

AS TO PARCEL III – (BLOCK 2040 FORMERLY LOT 62):

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF MANHATTAN, COUNTY, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT ON THE EASTERLY SIDE OF EIGHTH AVENUE (FREDERICK DOUGLASS BOULEVARD) DISTANT TWENTY-FIVE FEET SOUTHERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF WEST 155TH STREET WITH THE EASTERLY SIDE OF EIGHTH AVENUE (FREDERICK DOUGLASS BOULEVARD);

RUNNING THENCE EASTERLY AND PARALLEL WITH WEST 155TH STREET, 100 FEET;

THENCE SOUTHERLY AND PARALLEL WITH EIGHTH AVENUE (FREDERICK DOUGLASS BOULEVARD), 24 FEET 11 INCHES;

THENCE WESTERLY AND AGAIN PARALLEL WITH WEST 155TH STREET, 100 FEET TO THE EASTERLY SIDE OF EIGHTH AVENUE (FREDERICK DOUGLASS BOULEVARD); AND

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF EIGHTH AVENUE (FREDERICK DOUGLASS BOULEVARD), 24 FEET 11 INCHES, TO THE POINT OR PLACE OF BEGINNING.

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN MORE DETAIL IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT derweb@dec.ny.gov.

Date	Description	No.

REVISIONS

"I hereby state that this plan is based on a field survey made by me or under my immediate supervision, in accordance with NYSPLS Code of Practice for Land Surveys, and to the best of my professional knowledge, information and belief, and in my professional opinion correctly represents the conditions found on the date of the field survey of the subject property".

SIGNATURE 08/08/2022 DATE SIGNED

PAUL FISHER
PROFESSIONAL LAND SURVEYOR NY Lic. No. 050784–1

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project
BCP SITE NAME:
280 WEST 155TH STREET DEVELOPMENT
BCP SITE No.: C231138
ADDRESS: 2926 FREDERICK DOUGLASS BOULEVARD
BLOCK No. 2040, LOT No. 48
BOROUGH OF MANHATTAN
CITY OF NEW YORK
NEW YORK COUNTY NEW YORK

Drawing Title
DEC EASEMENT SURVEY

Project No.	Drawing No.
100765102	DEC101
Date: 08/22/2022	
Drawn By: LB	
Checked By: PDF	
	Sheet 001 of 001

LANGAN
PROJECT NO. 100765102

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Filename: \\langan.com\data\PAR\data1\100765102\Project Data_Discipline\Survey\CAD\Existing\100765102-DEC0101.dwg Date: 8/31/2022 Time: 13:25 User: lberliner Style Table: Langan.stb Layout: ARCHD-BL-DEC Easement Survey

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of the General Counsel
625 Broadway, 14th Floor, Albany, New York 12233-1500
P: (518) 402-9185 I F: (518) 402-9018
www.dec.ny.gov

VIA CERTIFIED MAIL

November 7, 2022

Chris Bergin
Troutman Pepper
1001 Haxall Point
Suite 1500
Richmond, VA 23219

RE: Environmental Easement Package
Site Name: 280 W. 155th Street
Site No.: C231138

Dear Mr. Bergin,

Enclosed please find a fully executed Environmental Easement TP-584 tax forms and NYC RPT required for recording.

Once the Environmental Easement is recorded, the local municipality will need to be notified via Certified Mail, Return Receipt Requested.

Please return to this office, copies of the recorded easement marked by the County Clerk's Office with the date and location of recording, and a certified copy of the municipal notices. The information from the recorded easement and notices are necessary to process the Certificate of Completion.

If you have any further questions or concerns relating to this matter, please contact our office at (518) 408-0409.

Sincerely,

Cheryl Salem
Legal Assistant I
Remediation Bureau

ec: J. Andaloro, Esq., NYSDEC

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 2nd day of November, 2022 between Owner, 280 W 155th Street Owner, L.L.C., having an office at 1001 Pennsylvania Avenue NW, Washington D.C., 20004-2505 (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 2926 Fredrick Douglas Boulevard in the City of New York, County of New York and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 2040 Lot 48, being the same as that property conveyed to Grantor by deed dated November 4, 2020 and recorded in the City Register of the City of New York as CRFN # 2020000324588. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.91744 +/- acres, and is hereinafter more fully described in the Land Title Survey dated August 22, 2022 prepared by Paul D. Fisher, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C231138-12-19, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C231138
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

280 W 155th Street Owner, L.L.C.:

By: _____

Print Name: HARSIMRAN SABHARWAL

Title: Authorized Signor Date: 10-11-22

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Nassau)

On the 11th day of October, in the year 2022, before me, the undersigned, personally appeared Harsimran Sabharwal, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public - State of New York

SUBASH KATYAL
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01KA6402786
Qualified in Nassau County
Commission Expires January 13, 2024

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Andrew O. Guglielmi, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 2nd day of November, in the year 2022, before me, the undersigned, personally appeared Andrew O. Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024

SCHEDULE "A" PROPERTY DESCRIPTION

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:

BEGINNING at a point on the southerly side of West 155th Street, distant 450 feet easterly from the corner formed by the intersection of the easterly side of Eighth Avenue and the said southerly side of West 155th Street;

RUNNING THENCE southerly parallel with the said easterly side of Eighth Avenue, 99.92 feet to the center line of the block;

THENCE westerly along the said center line of the block, 350 feet;

THENCE northerly again parallel with the said easterly side of Eighth, 50 feet;

THENCE westerly again parallel with the said southerly side of West 155th Street, 100 feet; and THENCE northerly along the easterly side of Eighth Avenue (Frederick Douglass Boulevard), 49 feet 92 inches, to the point or place of BEGINNING.

Being the same property conveyed to 280 W 155 St Owner LLC, a Delaware limited liability company, by Bargain and Sale Deed with Covenants Against Grantor's Acts, dated February 8, 2019, from Cactus of Harlem, LLC, recorded February 13, 2019, in CRFN 2019000050857 and described as follows:

As to Parcel I – (Block 2040 Formerly Lot 48):

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:
BEGINNING at a point on the southerly side of West 155th Street, distant 325 feet easterly from the corner formed by the intersection of the easterly side of Eighth Avenue and the said southerly side of West 155th Street;

RUNNING THENCE southerly parallel with the said easterly side of Eighth Avenue, 99 feet 11 inches to the center line of the block;

THENCE easterly along the said center line of the block, 125 feet;

THENCE northerly again parallel with the said easterly side of Eighth Avenue and part of the distance through a party wall, 99 feet 11 inches to the said southerly side of West 155th Street; THENCE westerly along the said southerly side of West 155th Street, 125 feet to the point or place of BEGINNING.

As to Parcel II – (Block 2040 Formerly Lot 61):

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:
BEGINNING at the corner formed by the intersection of the southerly side of West 155th Street with the easterly side of Frederick Douglass Boulevard;

RUNNING THENCE easterly along the southerly side of West 155th Street, a distance of 325.00 feet; RUNNING THENCE southerly at right angles to the last mentioned course, a distance of 99.92 feet; RUNNING THENCE westerly at right angles to the last mentioned course, a distance of 225.00 feet; RUNNING THENCE northerly at right angles to the last mentioned course, a distance of 74.92 feet;

RUNNING THENCE westerly at right angles to the last mentioned course, a distance of 100.00 feet to the easterly side of Frederick Douglass Boulevard;

RUNNING THENCE northerly along the easterly side of Frederick Douglass Boulevard, 25.00 feet to the point or place of BEGINNING.

As to Parcel III – (Block 2040 Formerly Lot 62):

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:

BEGINNING at the point on the easterly side of Eighth Avenue (Frederick Douglass Boulevard) distant twenty-five feet southerly from the corner formed by the intersection of the southerly side of West 155th Street with the easterly side of Eighth Avenue (Frederick Douglass Boulevard); RUNNING THENCE easterly and parallel with West 155th Street, 100 feet;

THENCE southerly and parallel with Eighth Avenue (Frederick Douglass Boulevard), 24 feet 11 inches;

THENCE westerly and again parallel with West 155th Street, 100 feet to the easterly side of Eighth Avenue (Frederick Douglass Boulevard); and

THENCE northerly along the easterly side of Eighth Avenue (Frederick Douglass Boulevard), 24 feet 11 inches, to the point or place of BEGINNING.

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2022112300860001005EE0E8

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 11**

Document ID: 2022112300860001 Document Date: 11-02-2022 Preparation Date: 12-09-2022
Document Type: EASEMENT
Document Page Count: 10

PRESENTER:
NATIONAL LAND TENURE (NLT-SR2022-173-NY)
950 FRANKLIN AVENUE
GARDEN CITY, NY 11530
516-227-0800
SLEVIN@NLTCO.COM

RETURN TO:
TROUTMAN PEPPER HAMILTON SANDERS LLP
TROUTMAN PEPPER BUILDING
1001 HAZALL POINT
RICHMOND, VA 23219

PROPERTY DATA

Borough	Block	Lot	Unit	Address
MANHATTAN	2040	48	Entire Lot	2926 FREDRICK DOUGLASS BL

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
280 W 155TH STREET OWNER, L.L.C.
299 PARK AVENUE, 25TH FLOOR
NEW YORK, NY 10171

GRANTEE/BUYER:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, 625 BROADWAY
ALBANY, NY 12233-0001

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	87.00
Affidavit Fee:	$	0.00

Filing Fee:	$	250.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 12-12-2022 11:05
City Register File No.(CRFN): **2022000447724**

City Register Official Signature

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this as of 2nd day of November, 2022 between Owner, 280 W 155th Street Owner, L.L.C., having an office at 1001 Pennsylvania Avenue NW, Washington D.C., 20004-2505 (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 2926 Fredrick Douglas Boulevard in the City of New York, County of New York and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 2040 Lot 48, being the same as that property conveyed to Grantor by deed dated November 4, 2020 and recorded in the City Register of the City of New York as CRFN # 2020000324588. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.91744 +/- acres, and is hereinafter more fully described in the Land Title Survey dated August 22, 2022 prepared by Paul D. Fisher, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

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NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C231138-12-19, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

https://a836-acris.nyc.gov/DS/DocumentSearch/DocumentImageView?doc_id=2022112300860001 4/11

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

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the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C231138
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

https://a836-acris.nyc.gov/DS/DocumentSearch/DocumentImageView?doc_id=2022112300860001 6/11

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

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IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

280 W 155th Street Owner, L.L.C.:

By: _____

Print Name: HARSIMRAN SABHARWAL

Title: Authorized Signor Date: 10-11-22

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Nassau)

On the 11th day of October, in the year 2022, before me, the undersigned, personally appeared Harsimran Sabharwal, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Subash Katyal
Notary Public - State of New York

SUBASH KATYAL
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01KA6402786
Qualified In Nassau County
Commission Expires January 13, 2024

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THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Andrew O. Guglielmi, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 2nd day of November, in the year 2022, before me, the undersigned, personally appeared Andrew O. Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024

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SCHEDULE "A" PROPERTY DESCRIPTION

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:

BEGINNING at a point on the southerly side of West 155th Street, distant 450 feet easterly from the corner formed by the intersection of the easterly side of Eighth Avenue and the said southerly side of West 155th Street;

RUNNING THENCE southerly parallel with the said easterly side of Eighth Avenue, 99.92 feet to the center line of the block;

THENCE westerly along the said center line of the block, 350 feet;

THENCE northerly again parallel with the said easterly side of Eighth, 50 feet;

THENCE westerly again parallel with the said southerly side of West 155th Street, 100 feet; and THENCE northerly along the easterly side of Eighth Avenue (Frederick Douglass Boulevard), 49 feet 92 inches, to the point or place of BEGINNING.

Being the same property conveyed to 280 W 155 St Owner LLC, a Delaware limited liability company, by Bargain and Sale Deed with Covenants Against Grantor's Acts, dated February 8, 2019, from Cactus of Harlem, LLC, recorded February 13, 2019, in CRFN 2019000050857 and described as follows:

As to Parcel I – (Block 2040 Formerly Lot 48):

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:
BEGINNING at a point on the southerly side of West 155th Street, distant 325 feet easterly from the corner formed by the intersection of the easterly side of Eighth Avenue and the said southerly side of West 155th Street;

RUNNING THENCE southerly parallel with the said easterly side of Eighth Avenue, 99 feet 11 inches to the center line of the block;

THENCE easterly along the said center line of the block, 125 feet;

THENCE northerly again parallel with the said easterly side of Eighth Avenue and part of the distance through a party wall, 99 feet 11 inches to the said southerly side of West 155th Street; THENCE westerly along the said southerly side of West 155th Street, 125 feet to the point or place of BEGINNING.

As to Parcel II – (Block 2040 Formerly Lot 61):

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:
BEGINNING at the corner formed by the intersection of the southerly side of West 155th Street with the easterly side of Frederick Douglass Boulevard;

https://a836-acris.nyc.gov/DS/DocumentSearch/DocumentImageView?doc_id=2022112300860001 10/11

RUNNING THENCE easterly along the southerly side of West 155th Street, a distance of 325.00 feet; RUNNING THENCE southerly at right angles to the last mentioned course, a distance of 99.92 feet; RUNNING THENCE westerly at right angles to the last mentioned course, a distance of 225.00 feet; RUNNING THENCE northerly at right angles to the last mentioned course, a distance of 74.92 feet;

RUNNING THENCE westerly at right angles to the last mentioned course, a distance of 100.00 feet to the easterly side of Frederick Douglass Boulevard;

RUNNING THENCE northerly along the easterly side of Frederick Douglass Boulevard, 25.00 feet to the point or place of BEGINNING.

As to Parcel III – (Block 2040 Formerly Lot 62):

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:

BEGINNING at the point on the easterly side of Eighth Avenue (Frederick Douglass Boulevard) distant twenty-five feet southerly from the corner formed by the intersection of the southerly side of West 155th Street with the easterly side of Eighth Avenue (Frederick Douglass Boulevard); RUNNING THENCE easterly and parallel with West 155th Street, 100 feet;

THENCE southerly and parallel with Eighth Avenue (Frederick Douglass Boulevard), 24 feet 11 inches;

THENCE westerly and again parallel with West 155th Street, 100 feet to the easterly side of Eighth Avenue (Frederick Douglass Boulevard); and

THENCE northerly along the easterly side of Eighth Avenue (Frederick Douglass Boulevard), 24 feet 11 inches, to the point or place of BEGINNING.

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APPENDIX B

LIST OF SITE CONTACTS

LIST OF SITE CONTACTS

280 WEST155TH STREET DEVELOPMENT, NEW YORK, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C231138

Key contacts for this project are as follows:

Site Owner and Remedial Party:

280 W 155th Street Owner, L.L.C.
c/o Sabharwal Properties
Pavit Sabharwal
Telephone: (646) 834-9380
E-mail: pavit@sabharwalproperties.com

Remedial Party's Consultant:

Langan Engineering Project Manager
Amanda Forsburg, CHMM
Telephone: (973) 560-4900
E-mail: aforsburg@langan.com

Langan Engineering Remedial Engineer
Satyajit Vaidya, P.E.
Telephone: (973) 560-4900
E-mail: svaidya@langan.com

Langan Engineering Health & Safety Officer
Tony Moffa
Telephone: (215) 756-2523
E-mail: tmoffa@langan.com

Langan Engineering Field Safety Officer
Allyson Kritzer
Telephone: (973) 560-4900
E-mail: akritzer@langan.com

Qualified Environmental Professional:

Langan Engineering Project Manager
Christopher McMahon, CHMM
Telephone: (973) 560-4900
E-mail: cmcmahon@langancom

NYSDEC:

NYSDEC Section Chief
Ms. Cris-Sandra Maycock
Telephone: (718) 482-4679
E-mail: cris-sandra.maycock@dec.ny.gov

NYSDEC Project Manager's Supervisor
Ms. Heidi Dudek
Telephone: (518) 402-0193
E-mail: heidi.dudek@dec.ny.gov

NYSDEC Project Manager
Ms. Meghan Medwid
Telephone: (518) 402-8610
E-mail: meghan.medwid@dec.ny.gov

NYSDEC Site Control
Ms. Kelly Lewandowski
Telephone: (518) 402-0193
E-mail: kelly.lewandowski@dec.ny.gov

NYSDOH:

NYSDOH Project Manager
Mr. Arunesh Ghosh
Telephone: (518) 486-1443
Email: arunesh.ghosh@health.ny.gov

Remedial Party's Attorney:

Troutman Pepper LLP
Susan Charles, Esq.
Telephone: (312) 759-5931
E-mail: susan.charles@troutman.com

APPENDIX C

BORING AND WELL CONSTRUCTION LOGS

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Log of Boring **LSB-36/LMW-8** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: 16.19-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/1/20 — Date Finished: 9/1/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 10 — Completion ▼ 11 — 24 HR. ▼ --
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/1/2020.
		Light brown to dark brown fine-medium SAND, some brick, trace concrete, trace slag, trace f-c gravel (dry)[FILL]	1	M-1	Macrocore	48		0.0	Collected 060_LSB-36_1.0-3.0 from 1.0-3.0' bgs. VOCs from 1.5-2.0' bgs.
			2					0.0	
			3					0.0	
			4					0.0	
		Light brown to dark brown fine-medium SAND, some brick, trace concrete, trace slag, trace f-c gravel (moist)[FILL]	5	M-2	Macrocore	42		0.0	
			6					0.0	
			7					0.0	
			8					0.0	
			9					0.0	
		Light brown to dark brown fine-medium SAND, some brick, trace concrete, trace slag, trace f-c gravel (wet)[FILL] ▽	10					0.0	
		Grayish brown to gray silty fine-coarse SAND, trace brick, trace f-c gravel (wet)[FILL] ▼	11	M-3	Macrocore	42		0.0	
			12					0.0	Collected 061_LSB-36_12.0-14.0 from 12.0-14.0' bgs. VOCs from 12.0-12.5' bgs.
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs. LMW-8 installed to 15.0' bgs and screened 5.0-15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-37** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/31/20 — Date Finished: 8/31/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 9 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Red BRICK (dry)[FILL]	0					0.0	Started Drilling on 8/31/2020.
		Dark brown to reddish brown fine-medium SAND, trace brick, trace concrete, trace f-c gravel (dry)[FILL]	1					0.0	Collected 050_LSB-37_1.0-3.0 from 1.0-3.0' bgs. VOCs from 1.5-2.0' bgs.
			2	M-1	Macrocore	48		0.0	
			3					0.0	
			4					0.0	
		CONCRETE (dry)[FILL]	5					0.0	
		Tannish brown fine-medium SAND, trace concrete, trace brick, trace silt (dry)[FILL]	6					0.0	
			7	M-2	Macrocore	36		0.0	
			8					0.0	
		▽ Tannish brown fine-medium SAND, trace concrete, trace brick, trace silt (wet)[FILL]	9					0.0	
			10					0.0	
		Gray silty fine-coarse SAND, trace brick, trace gravel (wet)[FILL]	11					0.0	
			12	M-3	Macrocore	48		0.0	Collected 051_LSB-37_12.0-14.0 from 12.0-14.0' bgs. VOCs from 12.5-13.0' bgs.
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-38** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: 15.91-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/1/20 — Date Finished: 9/1/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 8 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/1/2020.
		Reddish brown fine-coarse SAND, some brick, trace concrete, trace f-c gravel (dry)[FILL]	1					0.0	
								0.0	
		Reddish brown fine-medium SAND, trace concrete, trace brick (dry)[FILL]	2	M-1	Macrocore	54		0.0	Collected 062_LSB-38_2.0-4.0 from 2.0-4.0' bgs. VOCs from 2.0-2.5' bgs.
			3					0.0	
								0.0	
			4					0.0	
								0.0	
		Reddish brown fine-medium SAND, trace concrete, trace brick, trace slag (moist)[FILL]	5					0.0	
								0.0	
			6					0.0	
								0.0	
			7	M-2	Macrocore	48		0.0	
								0.0	
		Tannish gray fine-medium SAND, trace wood, trace concrete (wet)[FILL]	8 ▽					0.0	
								0.0	
			9					0.0	
								0.0	
			10					0.0	
								0.0	
			11					0.0	
								0.0	
		Gray silty fine-medium SAND, trace wood, trace f-c gravel (wet)[FILL]	12	M-3	Macrocore	42		0.0	Collected 063_LSB-38_12.0-14.0 from 12.0-14.0' bgs. VOCs from 12.0-12.5' bgs.
								0.0	
			13					0.0	
								0.0	
			14					0.0	
								0.0	
			15						Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-39** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/2/20 / Date Finished: 9/2/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 8 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/2/2020.
		Brown to tannish brown fine-coarse SAND, some brick, some wood, trace concrete, trace f-c gravel (dry)[FILL]	1					0.0	
		Brown to tannish brown fine-coarse SAND, trace concrete, trace brick, trace slag, trace wood, trace f-c gravel (dry)[FILL]	2	M-1	Macrocore	48		0.0	Collected 065_LSB-39_1.0-3.0 and 067_DUP-2 from 1.0-3.0' bgs. VOCs from 1.5-2.0' bgs.
			3					0.0	
			4					0.0	
		Brown to tannish brown fine-coarse SAND, some f-c gravel, trace brick, trace concrete, trace wood, trace slag (moist)[FILL]	5					0.0	
		Brown to tannish brown fine-coarse SAND, some f-c gravel, trace brick, trace wood, trace slag (moist)[FILL]	6					0.0	
			7	M-2	Macrocore	42		0.0	
		▽	8					0.0	
		Brown to tannish brown fine-coarse SAND, some f-c gravel, trace brick, trace wood, trace slag (wet)[FILL]	9					0.0	
			10					0.0	
		Brownish gray silty fine-medium SAND, trace brick, trace f-c gravel (wet)[FILL]	11					0.0	
			12	M-3	Macrocore	48		0.0	Collected 066_LSB-39_12.0-14.0 from 12.0-14.0' bgs. VOCs from 12.0-12.5' bgs.
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-40/LSV-10** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.4-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/31/20 — Date Finished: 8/31/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 7 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/31/2020.
		WOOD and CONCRETE (dry)[FILL]						0.0	
		Tannish brown fine-medium SAND, trace slag, trace brick, trace concrete (dry)[FILL]	1					0.0	Collected 053_LSB-40_1.0-3.0 from 1.0-3.0' bgs. VOCs from 1.5-2.0' bgs.
			2	M-1	Macrocore	48		0.0	
			3					0.0	
			4					0.0	
			5					0.0	
			6					0.0	Collected 058_LSB-40_6.0-8.0 from 6.0-8.0' bgs. VOCs from 6.5-7.0' bgs.
		Reddish brown to grayish brown fine-medium SAND, trace brick, trace concrete (wet)[FILL]	7 ▽	M-2	Macrocore	42		0.0	
			8					0.0	
			9					0.0	
		Grayish brown silty fine-medium SAND, trace brick, trace f-c gravel (wet)[FILL]	10					0.0	
			11					0.0	
			12	M-3	Macrocore	36		0.0	Collected 054_LSB-40_12.0-14.0 from 12.0-14.0' bgs. VOCs from 12.0-12.5' bgs.
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-41** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: 15.15-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/31/20 — Date Finished: 8/31/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 7.5 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/31/2020.
		CONCRETE, trace brick (dry)[FILL]	1					0.0	
								0.0	
			2					0.0	
				M-1	Macrocore	48		0.0	
			3					0.0	
								0.0	
			4					0.0	
		Brown to tannish brown fine-medium SAND, trace concrete, trace wood, trace brick (dry)[FILL]						0.0	Collected 047_LSB-41_4.0-6.0 from 4.0-6.0' bgs. VOCs from 4.0-4.5' bgs.
			5					0.0	
								0.0	
			6					0.0	
								0.3	
			7					0.2	
		▽		M-2	Macrocore	54		3.5	
		Reddish brown fine-medium SAND, trace brick (wet)[FILL]	8					3.4	Odor and globules of product from 7.5-9.0' bgs.
								16.6	Collected 057_LSB-41_7.5-9.5 from 7.5-9.5' bgs. VOCs from 8.0-8.5' bgs.
		Light gray to dark gray silty fine-medium SAND, trace brick, trace wood, trace concrete (wet)[FILL]	9					1.2	
								0.0	
			10					0.0	
								0.0	
			11					0.0	
								0.0	
			12					0.0	
				M-3	Macrocore	42		0.0	Collected 048_LSB-41_12.0-14.0 from 12.0-14.0' bgs. VOCs from 12.0-12.5' bgs.
			13					0.0	
								0.0	
			14					0.0	
								0.0	
			15						Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-42** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: 14.05-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/28/20 — Date Finished: 8/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 8.5 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/28/2020.
		Dark gray to dark brown fine-medium SAND, some wood, some concrete, some f-c gravel (dry)[FILL]	1					0.0	
								0.0	
		Dark brown fine-medium SAND, trace brick, trace concrete, trace fine gravel (dry)[FILL]	2					0.0	Collected 040_LSB-42_1.5-3.5 from 1.5-3.5' bgs. VOCs from 2.0-2.5' bgs.
				M-1	Macrocore	48		0.0	
			3					0.0	
								0.0	
			4					0.0	
								0.0	
			5					0.0	
								0.0	
			6					0.0	
								0.0	
			7					0.0	
		Dark gray silty fine-medium SAND, trace brick, trace concrete (dry)[FILL]		M-2	Macrocore	48		0.6	Collected 044_LSB-42_7.5-9.5 from 7.5-9.5' bgs. VOCs from 8.5-9' bgs. Sheen on liner and soil from 8.5-9.5' bgs. Odor from 8.0-11.0' bgs
			8					1.3	
		▽ Dark gray silty fine-medium SAND, trace brick, trace concrete (wet)[FILL]						14.6	
			9					13.8	
								6.9	
		Gray silty SAND, trace brick (wet)[FILL]	10					2.7	
								1.9	
			11					0.8	
								0.0	
			12					0.2	
				M-3	Macrocore	48		0.0	Collected 041_LSB-42_12.0-14.0 from 12.0-14.0' bgs. VOCs from 12.0-12.5' bgs.
			13					0.1	
		Gray CLAY, trace organics (moist)[NATIVE]						0.4	
			14					0.2	
								0.2	
			15						Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-43** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 14.5-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/28/20 — Date Finished: 8/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 10 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/28/2020.
		Tannish red to red GRAVEL, BRICK AND CONCRETE (dry)[FILL]	1					0.0	
			2					0.0	
		Tannish brown to brown fine-coarse SAND, trace concrete, trace f-c gravel (dry)[FILL]	3	M-1	Macrocore	42		0.0	Collected 037_LSB-43_2.5-4.5 from 2.5-4.5' bgs. VOCs from 3.0-3.5' bgs.
			4					0.0	
			5					0.0	
		Brown to reddish brown fine-medium SAND, trace concrete (moist)[FILL]	6					0.0	
			7	M-2	Macrocore	42		0.0	
			8					0.0	
			9					0.0	
		Grayish brown fine-medium SAND, trace concrete, trace brick (wet)[FILL]	10 ▽					0.0	
		Grayish brown silty fine-medium SAND, trace concrete, trace f-c gravel (wet)[FILL]	11					0.0	
			12	M-3	Macrocore	42		0.0	Collected 038_LSB-43_12.0-14.0 from 12.0-14.0' bgs. VOCs from 13.0-13.5' bgs
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-44** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 12.78-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/27/20 — Date Finished: 8/27/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 7 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/27/2020.
		CONCRETE and BRICK (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	48		0.0	
		Brown fine-coarse SAND, some f-c gravel, trace brick, trace wood (dry)[FILL]	3					0.0	Collected 030_LSB-44_3.0-5.0 from 3.0-5.0' bgs. VOCs from 3.5-4.0' bgs.
			4					0.0	
		Reddish brown fine-medium SAND, trace f-c gravel (dry)[FILL]	5					0.0	
		Gray silty fine-medium SAND, trace brick, trace f-c gravel (dry)[FILL]	6					0.0	
		Gray silty fine-medium SAND, trace brick, trace f-c gravel (wet)[FILL] ▽	7	M-2	Macrocore	48		0.0	
			8					0.0	
			9					0.0	
		Gray silty fine-medium SAND, trace brick, trace wood (wet)[FILL]	10					0.0	
			11					0.0	
			12	M-3	Macrocore	48		0.0	Collected 031_LSB-44_12.0-14.0 and 032_DUP-1 from 12.0-14.0' bgs. VOCs from 12.5-13.0' bgs.
			13					0.0	
		Gray CLAY, trace organics (moist)[NATIVE]	14					0.0	
			15						Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-45** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.0-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/31/20 — Date Finished: 8/31/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 8.5 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/31/2020.
		Tannish brown fine-coarse SAND, some f-c gravel, trace brick, trace slag (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	42		0.0	
			3					0.0	
			4					0.0	
		Reddish brown fine-medium SAND, trace brick, trace silt (dry)[FILL]	5					0.0	
		Dark gray to gray fine-medium SAND, trace brick, trace concrete (moist)[FILL]	6					0.0	
			7	M-2	Macrocore	48		0.0	
		Gray to light gray fine-coarse SAND, some f-c gravel, trace concrete, trace silt (wet)[FILL]	8 ▽					0.0	Collected 056_LSB-45_7.5-9.5 from 7.5-9.5' bgs. VOCs from 8.0-8.5' bgs.
			9					0.0	
		Gray to light gray fine-coarse SAND, trace concrete, trace brick, trace silt, trace fine gravel (wet)[FILL]	10					0.0	
			11					0.0	
			12	M-3	Macrocore	48		0.0	
			13					0.0	
		Gray CLAY, trace organics (moist)[NATIVE]	14					0.0	
			15						Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-46** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.4-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/31/20 — Date Finished: 8/31/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 9 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/31/2020.
		Brown fine-medium SAND, some wood, trace concrete, trace brick (dry)[FILL]	1					0.2	
		Grayish brown to light brown fine-coarse SAND, trace slag, trace wood, trace brick (dry)[FILL]	2	M-1	Macrocore	42		0.0	
			3					0.0	
			4					0.0	
		Reddish brown fine-medium SAND, trace wood, trace slag, trace silt (dry)[FILL]	5					0.0	
			6					0.0	Collected 055_LSB-46_6.0-8.0 from 6.0-8.0' bgs. VOCs from 6.5-7.0' bgs.
		Grayish brown to gray silty fine-coarse SAND, trace brick, trace concrete (dry)[FILL]	7	M-2	Macrocore	42		0.0	
			8					0.0	
		Grayish brown to gray silty fine-coarse SAND, trace brick, trace concrete (wet)[FILL]	9 ▽					0.0	
		Grayish brown to gray silty fine-coarse SAND, trace brick, trace wood, trace f-c gravel (wet)[FILL]	10					0.0	
			11					0.0	
			12	M-3	Macrocore	36		0.0	
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-47** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 17.5-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/31/20 / Date Finished: 8/31/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 8 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/31/2020.
		Reddish brown fine-medium SAND, some brick, some concrete, trace wood (dry)[FILL]	1					0.0	
			2					0.0	
			3	M-1	Macrocore	48		0.0	
			4					0.0	
		Dark brown to brown fine-coarse SAND, some slag, trace concrete, trace wood (moist)[FILL]	5					0.0	
			6					0.0	
			7	M-2	Macrocore	48		0.0	
		Grayish brown to light gray fine-coarse SAND, some f-c gravel, trace brick, trace concrete (wet)[FILL] ▽	8					0.5	
			9					2.6 / 4.5 / 3.9	Sheen, globules, and odor from 8.5-10.0' bgs. Collected 049_LSB-47_8.5-10.5 from 8.5-10.5' bgs. VOCs from 9.0-9.5' bgs.
		Gray to grayish brown silty fine-medium SAND, some f-c gravel, trace concrete, trace brick (wet)[FILL]	10					0.9	
			11					0.0	
			12	M-3	Macrocore	48		0.0	
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-48** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 13.54-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/28/20 / Date Finished: 8/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/28/2020.
		BRICK AND CONCRETE, trace f-c gravel (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	48		0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Reddish brown fine-medium SAND, some brick, trace concrete (dry)[FILL]	6					0.0	
			7	M-2	Macrocore	42		0.0	
			8					0.0	Collected 039_LSB-48_8.0-10.0 from 8.0-10.0' bgs. VOCs from 9.0-9.5' bgs.
		Gray silty fine-medium SAND, trace brick, trace wood (wet)[FILL]	9					0.0	
			10					0.0	
			11	M-3	Macrocore	48		0.0	
			12					0.0	
			13					0.0	
		Gray CLAY, trace organics (moist)[NATIVE]	14					0.0	
			15						Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-49** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 14.65-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/27/20 / Date Finished: 8/27/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9.5 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/27/2020.
		Brown to tannish brown fine SAND, some concrete, some wood, trace brick (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	48		0.0	
			3					0.0	
		Tannish brown fine-medium SAND, trace fine gravel (dry)[FILL]	4					0.0	
		Tannish brown fine-medium SAND, some concrete, trace fine gravel (dry)[FILL]	5					0.0	
		Dark brown fine SAND, some f-c gravel (dry)[FILL]	6					0.0	
			7	M-2	Macrocore	48		0.0	
			8					0.0	
			9					0.0	
		Dark brown fine SAND, some f-c gravel (wet)[FILL]	10					0.6	Collected 033_LSB-49_9.5-11.5 from 9.5-11.5' bgs. VOCs collected from 10.0-10.5' bgs.
			11	M-3	Macrocore	48		0.3	
		Dark brown silty fine SAND (wet)[FILL]	12					0.6	Small globules, slight sheen, and odors from 9.75-11.0' bgs.
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-50** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 16.6-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/28/20 — Date Finished: 8/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 10 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/28/2020.
		Tannish brown fine-coarse SAND, some concrete, some f-c gravel, trace brick (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	48		0.0	
		Brown fine-medium SAND, some f-c gravel, trace concrete (dry)[FILL]	3					0.0	
			4					0.0	
		Tannish brown fine-coarse SAND, trace concrete, trace silt (dry)[FILL]	5					0.0	
			6					0.0	
		Reddish brown fine-medium SAND, trace concrete, trace brick, trace silt (moist)[FILL]	7	M-2	Macrocore	48		0.0	
			8					0.0	
			9					0.0	
		Dark gray fine-coarse SAND, some f-c gravel, trace wood (wet)[FILL]	10 ▽					0.8	Collected 042_LSB-50_1 9.5-11.5 from 9.5-11.5' bgs. VOCs collected from 10.0-10.5' bgs. Slight odor and slight sheen from 10.0-10.5' bgs.
			11					1.2	
		Light gray silty fine-medium SAND, trace wood, trace f-c gravel (wet)[FILL]	12	M-3	Macrocore	42		0.2	
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-52/LMW-6** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: 14.65-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/27/20 — Date Finished: 8/27/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 9.5 — Completion ▼ 8.6 — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/27/2020.
		Grayish brown coarse GRAVEL, some concrete, some wood, some brick, trace f-m sand (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	48		0.0	
			3					0.0	
			4					0.0	
			5					0.0	
			6					0.0	
		Brown to light gray fine-medium SAND, trace brick, trace wood (dry)[FILL]	7	M-2	Macrocore	48		0.0	
			8 ▼					0.0	
			9 ▽					0.0	
		Brown to light gray fine-medium SAND, trace brick, trace wood (wet)[FILL]	10					0.0	Collected 035_LSB-52_9.5-11.5 from 9.5-11.5' bgs. VOCs collected from 10.0-10.5' bgs.
		Grayish brown silty fine-medium SAND, trace f-m gravel (wet)[FILL]	11					0.0	
			12	M-3	Macrocore	42		0.0	
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs. LMW-6 installed to 15.0' bgs and screened 5.0-15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-53** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 16.49-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/28/20 / Date Finished: 8/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9.5 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry) [FILL]	0					0.0	Started Drilling on 8/28/2020.
		Tannish brown fine-coarse SAND, some concrete, some wood, trace brick, trace silt (dry)[FILL]	1					0.0	
								0.0	
			2	M-1	Macrocore	48		0.0	
								0.0	
			3					0.0	
								0.0	
			4					0.0	
								0.0	
		Reddish brown to brown fine-medium SAND, trace brick, trace concrete (dry)[FILL]	5					0.0	
								0.0	
			6					0.0	
								0.0	
		Reddish brown to brown fine-medium SAND, trace brick, trace concrete (moist)[FILL]	7	M-2	Macrocore	48		0.0	
								0.0	
			8					0.0	
								0.0	
			9					0.2	
		Brown to dark brown fine-coarse SAND, some f-c gravel, trace brick (wet)[FILL]	▽ 10					3.6	Sheen, some product, and odor from 9.5-10.5' bgs. Collected 043_LSB-53_9.5-11.5 from 9.5-11.5' bgs. VOCs from 10.0-10.5' bgs.
								1.2	
			11					2.4	
								1.0	
		Gray silty fine-medium SAND, trace brick, trace concrete (wet)[FILL]	12	M-3	Macrocore	42		0.0	
								0.0	
			13					0.0	
								0.0	
			14					0.0	
								0.0	
			15						Bottom of boring at 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-54/LSV-17** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 16.4-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/28/20 — Date Finished: 8/28/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 8.5 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/28/2020.
		BRICK and CONCRETE, trace wood (dry)[FILL]	1					0.0	
			2					0.0	
			3	M-1	Macrocore	48		0.0	
			4					0.0	
			5					0.0	
		BRICK and CONCRETE, trace wood, trace f-c sand (dry)[FILL]	6					0.0	
		Reddish brown to gray fine-medium SAND, trace brick, trace silt, trace fine gravel (dry)[FILL]	7	M-2	Macrocore	42		0.0	
		▽ Reddish brown to gray fine-medium SAND, trace brick, trace silt, trace fine gravel (wet)[FILL]	8					0.0	
			9					0.0	
		Light gray to grayish brown silty fine-medium SAND, trace wood, trace f-c gravel (wet)[FILL]	10					0.0	Collected 045_LSB-54_9.5-11.5 from 9.5-11.5' bgs. VOCs collected from 10.0-10.5' bgs.
			11					0.0	
			12	M-3	Macrocore	48		0.0	
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring 15.0' bgs.
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-55** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 12.0-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/2/20 / Date Finished: 9/2/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 12 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 5 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/2/2020. Collected 069_WC-9 from LSB-55 and LSB-56 from 0.0-12.0' bgs. VOCs from 2.0-2.5' bgs from LSB-55.
		Dark brown to brown fine-coarse SAND, some f-c gravel, trace brick, trace concrete, trace wood (dry)[FILL]	1	M-1	Macrocore	48		0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5 ▽					0.0	
		Dark brown to brown fine-coarse SAND, some f-c gravel, trace brick, trace concrete, trace wood (wet)[FILL]	6	M-2	Macrocore	48		0.0	
		Grayish brown fine-medium SAND, trace brick, trace wood, trace f-c gravel (wet)[FILL]	7					0.0	
			8					0.0	
			9					0.0	
		Grayish brown silty fine-medium SAND, trace brick, trace wood, trace f-c gravel (wet)[FILL]	10	M-3	Macrocore	24		0.0	
			11					0.0	
			12					0.0	Bottom of boring at 12.0' bgs.
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-56** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 13.0-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/2/20 — Date Finished: 9/2/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 12 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 7 — Completion ▼ --- — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/2/2020. Collected 069_WC-9 from LSB-55 and LSB-56 from 0.0-12.0' bgs. VOCs from 2.0-2.5' bgs from LSB-55.
		Grayish red fine-coarse SAND, some brick, some concrete (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	48		0.0	
		Reddish brown fine-coarse SAND, trace brick, trace wood, trace slag (dry)[FILL]	3					0.0	
			4					0.0	
		Reddish brown fine-coarse SAND, trace brick, trace wood, trace slag (moist)[FILL]	5					0.0	
			6					0.0	
		Grayish brown to gray fine-medium SAND, some f-c gravel, trace brick (wet)[FILL]	7 ▽	M-2	Macrocore	48		0.0	
			8					0.0	
			9					0.0	
		Grayish brown to gray silty fine-medium SAND, trace brick, trace fine gravel (wet)[FILL]	10					0.0	
			11	M-3	Macrocore	24		0.0	
			12						Bottom of boring at 12.0' bgs.
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-57** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 16.44-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/2/20 / Date Finished: 9/2/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 12 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 10 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/2/2020. Collected 070_WC-10 from LSB-57 and LSB-58 from 0.0-12.0' bgs. VOCs from LSB-57 from 4.0-4.5' bgs.
		Brown fine-coarse SAND, some brick, trace concrete, trace wood (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	36		0.0	
			3					0.0	
			4					0.0	
		Brown fine-coarse SAND, some brick, trace concrete, trace wood (moist)[FILL]	5					0.0	
			6					0.0	
			7	M-2	Macrocore	36		0.0	
			8					0.0	
			9					0.0	
		Grayish brown fine-medium SAND, trace brick, trace silt, trace f-c gravel (wet)[FILL]	10 ▽					0.0	
			11	M-3	Macrocore	18		0.0	
			12					0.0	Bottom of boring at 12.0' bgs.
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LSB-58** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 16.22-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/2/20 / Date Finished: 9/2/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 12 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 7 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/2/2020. Collected 070_WC-10 from LSB-57 and LSB-58 from 0.0-12.0' bgs. VOCs from LSB-57 from 4.0-4.5' bgs.
		Brown fine-medium SAND, trace brick, trace concrete, trace f-c gravel (dry)[FILL]	1	M-1	Macrocore	48		0.0	
			2					0.0	
			3					0.0	
			4					0.0	
		Brown fine-medium SAND, some brick, trace concrete, trace f-c gravel (moist)[FILL]	5					0.0	
			6					0.0	
			7 ▽	M-2	Macrocore	42		0.0	
		Grayish brown fine-medium SAND, some f-c gravel, trace brick, trace concrete (wet)[FILL]	8					0.0	
			9					0.0	
			10					0.0	
		Gray silty fine-medium SAND, trace brick, trace f-c gravel (wet)[FILL]	11	M-3	Macrocore	18		0.0	
			12						Bottom of boring at 12.0' bgs.
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LMW-7** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: 14.63-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 8/27/20 — Date Finished: 8/27/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 6.5 — Completion ▼ 8.3 — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 8/27/2020.
		Tannish brown fine-medium SAND, some concrete, some brick (dry)[FILL]	1					0.0	
		Tannish brown fine-medium SAND, some brick, some f-c gravel (dry)[FILL]	2	M-1	Macrocore	48		0.0	
		CONCRETE (dry)[FILL]	3					0.0	
			4					0.0	
		Tannish brown fine SAND (moist) [FILL]	5					0.0	
			6					0.0	
		Brown fine-medium SAND, trace fine gravel (moist)[FILL]	7	M-2	Macrocore	42		0.0	
		Brown fine-medium SAND, trace fine gravel (wet)[FILL]	8					0.0	
		Brownish gray to dark fine-coarse SAND, some fine gravel, trace wood, trace silt (wet)[FILL]	9					0.0	
			10					0.0	
			11					0.0	
			12	M-3	Macrocore	48		0.0	
			13					0.0	Slight odor at 13.0' bgs.
			14					1.3	
			15					3.0	Bottom of boring at 15.0' bgs.
			16					1.4	LMW-7 installed to 13.0' bgs and screened 3.0-13.0' bgs.
			17						
			18						
			19						
			20						

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Log of Boring **LMW-9/LSV-6** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: 16.56-ft NAVD88
Drilling Company: AARCO Environmental Services, Corp.	Date Started: 9/1/20 — Date Finished: 9/1/20
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 15 ft — Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 3 — Undisturbed --- — Core ---
Casing Diameter (in): --- — Casing Depth (ft): ---	Water Level (ft.): First ▽ 7.5 — Completion ▼ 9.9 — 24 HR. ▼ ---
Casing Hammer: --- — Weight (lbs): --- — Drop (in): ---	Drilling Foreman: Nick Turro
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- — Weight (lbs): --- — Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		ASPHALT (dry)[FILL]	0					0.0	Started Drilling on 9/1/2020.
		Tannish gray fine-coarse SAND, trace concrete, trace brick (dry)[FILL]	1					0.0	
			2	M-1	Macrocore	42		0.0	
			3					0.0	
			4					0.0	LSV-6 installed to 3.5' bgs.
		Light gray to gray fine-medium SAND, trace concrete, trace silt, trace f-c gravel (moist)[FILL]	5					0.0	
		Reddish brown to tannish brown fine-medium SAND, trace slag, trace brick, trace f-c gravel (moist)[FILL]	6					0.0	
			7 ▽	M-2	Macrocore	42		0.0	
		Reddish brown to tannish brown fine-medium SAND, trace slag, trace brick, trace f-c gravel (wet)[FILL]	8					0.0	
			9					0.0	
			10 ▼					0.0	
		Tannish gray silty fine-medium SAND, trace brick, trace f-c gravel (wet)[FILL]	11					0.0	
			12	M-3	Macrocore	42		0.0	
			13					0.0	
			14					0.0	
			15					0.0	Bottom of boring at 15.0' bgs. LMW-9 installed to 13.0' bgs and screened 3.0-13.0' bgs.
			16						
			17						
			18						
			19						
			20						

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WELL CONSTRUCTION SUMMARY

Well No. LMW-6

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation And Datum: 14.65 ft NAVD88
Drilling Agency: AARCO Environmental Services, Corp.	Date Started: 8/27/2020 / Date Finished: 8/27/2020
Drilling Equipment: Geoprobe 7822 DT	Driller: Nick Turro
Size And Type of Bit: 3.75-inch Direct Push	Inspector: Molly Mattern

Method of Installation

Soil boring drilled to 15' bgs. Direct push of a 3.75" stainless steel macrocore to a depth of 15' bgs. 10-feet of Schedule-40, 0.020-inch slotted 2-inch diameter PVC screen was installed from 5-15' bgs. No. 2 Sand was backfilled to approximately 2-feet above the top of screen. A 2-foot bentonite seal was installed above the sand, and the remainder of the borehole was backfilled with bentonite. Manhole installed and secured with concrete.

Method of Well Development

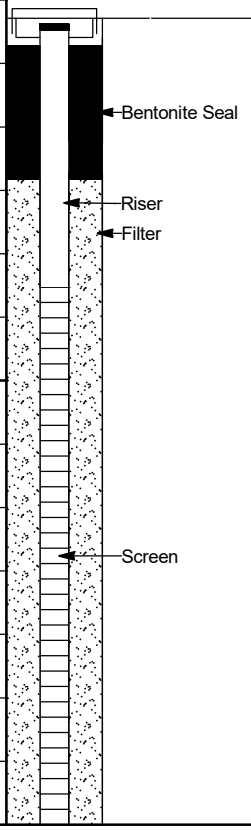
LMW-6 was developed using surge pumping techniques across the well screen in 2- to 3-foot increments. After surging, the well was purged via pumping until the water became clear. Purge water was collected in 55-gallon drums for future offsite disposal.

Type of Casing: -- / Diameter: --	Type of Backfill Material: Non-Impacted Drill Cuttings
Type of Screen: Schedule-40 PVC / Diameter: 2-inch	Type of Seal Material: Bentonite
Borehole Diameter: 3.75-inch	Type of Filter Material: No. 2 Sand

	Elevation	Depth
Top of Casing	14.40'	0.25' bgs
Top of Seal	14.15'	0.5' bgs
Top of Filter	11.65'	3' bgs
Top of Screen	9.65'	5' bgs
Bottom of Filter	-0.35'	15' bgs
Bottom of Well	-0.35'	15' bgs
Screen Length: 10.0'		Slot Size: 0.020

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
5.76'	8.64'	9/2/2020
5.67'	8.73'	9/10/2020



Soil / Rock Classification	Depth (ft)
Fill	0.25
	3
	5
	15

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WELL CONSTRUCTION SUMMARY

Well No. LMW-7

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation And Datum: 14.63 ft NAVD88
Drilling Agency: AARCO Environmental Services, Corp.	Date Started: 8/27/2020 / Date Finished: 8/27/2020
Drilling Equipment: Geoprobe 7822 DT	Driller: Nick Turro
Size And Type of Bit: 3.75-inch Direct Push	Inspector: Molly Mattern

Method of Installation

Soil boring drilled to 15' bgs. Bottom of drilled soil boring backfilled with non-impacted drill cuttings. Direct push of a 3.75" stainless steel macrocore to a depth of 13' bgs. 10-feet of Schedule-40, 0.020-inch slotted 2-inch diameter PVC screen was installed from 3-13' bgs. No. 2 Sand was backfilled to approximately 2-feet above the top of screen. A 0.5-foot bentonite seal was installed above the sand. Manhole installed and secured with concrete.

Method of Well Development

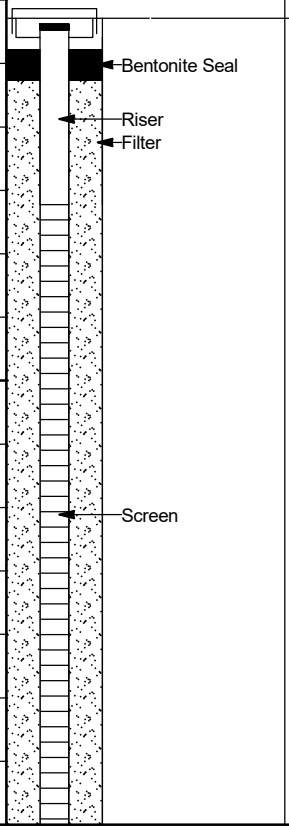
LMW-7 was developed using surge pumping techniques across the well screen in 2- to 3-foot increments. After surging, the well was purged via pumping until the water became clear. Purge water was collected in 55-gallon drums for future offsite disposal.

Type of Casing: -- / Diameter: --	Type of Backfill Material: Non-Impacted Drill Cuttings
Type of Screen: Schedule-40 PVC / Diameter: 2-inch	Type of Seal Material: Bentonite
Borehole Diameter: 3.75-inch	Type of Filter Material: No. 2 Sand

	Elevation	Depth
Top of Casing	14.38'	0.25' bgs
Top of Seal	14.13'	0.5' bgs
Top of Filter	13.63'	1' bgs
Top of Screen	11.63'	3' bgs
Bottom of Filter	1.63'	13' bgs
Bottom of Well	1.63'	13' bgs
Screen Length: 10.0'		Slot Size: 0.020

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
6.07'	8.31'	9/2/2020
5.95'	8.43'	9/10/2020



Soil / Rock Classification	Depth (ft)
Fill	0.25
	1
	3
	13

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WELL CONSTRUCTION SUMMARY

Well No. LMW-8

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation And Datum: 16.19 ft NAVD88
Drilling Agency: AARCO Environmental Services, Corp.	Date Started: 9/1/2020 / Date Finished: 9/1/2020
Drilling Equipment: Geoprobe 7822 DT	Driller: Nick Turro
Size And Type of Bit: 3.75-inch Direct Push	Inspector: Molly Mattern

Method of Installation

Soil boring drilled to 15' bgs. Direct push of a 3.75" stainless steel macrocore to a depth of 15' bgs. 10-feet of Schedule-40, 0.020-inch slotted 2-inch diameter PVC screen was installed from 5-15' bgs. No. 2 Sand was backfilled to approximately 2-feet above the top of screen. A 2-foot bentonite seal was installed above the sand, and the remainder of the borehole was backfilled with bentonite. Manhole installed and secured with concrete.

Method of Well Development

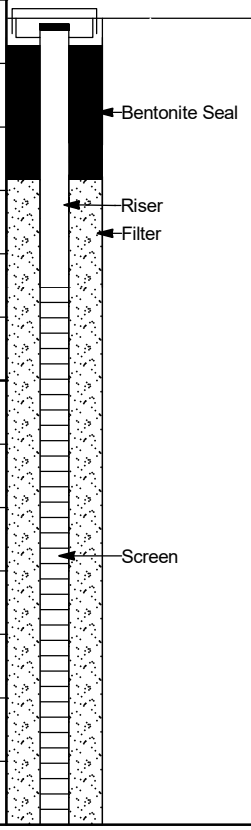
LMW-8 was developed using surge pumping techniques across the well screen in 2- to 3-foot increments. After surging, the well was purged via pumping until the water became clear. Purge water was collected in 55-gallon drums for future offsite disposal.

Type of Casing: -- / Diameter: --	Type of Backfill Material: Non-Impacted Drill Cuttings
Type of Screen: Schedule-40 PVC / Diameter: 2-inch	Type of Seal Material: Bentonite
Borehole Diameter: 3.75-inch	Type of Filter Material: No. 2 Sand

	Elevation	Depth
Top of Casing	15.94'	0.25' bgs
Top of Seal	15.69'	0.5' bgs
Top of Filter	13.19'	3' bgs
Top of Screen	11.19'	5' bgs
Bottom of Filter	1.19'	15' bgs
Bottom of Well	1.19'	15' bgs
Screen Length: 10.0'	Slot Size: 0.020	

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
4.96'	10.98'	9/2/2020
5.10'	10.84'	9/10/2020



Soil / Rock Classification	Depth (ft)
Fill	0.25
	3
	5
	15

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WELL CONSTRUCTION SUMMARY

Well No. LMW-9

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation And Datum: 16.56 ft NAVD88
Drilling Agency: AARCO Environmental Services, Corp.	Date Started: 9/1/2020 / Date Finished: 9/1/2020
Drilling Equipment: Geoprobe 7822 DT	Driller: Nick Turro
Size And Type of Bit: 3.75-inch Direct Push	Inspector: Molly Mattern

Method of Installation

Soil boring drilled to 15' bgs. Bottom of drilled soil boring backfilled with non-impacted drill cuttings. Direct push of a 3.75" stainless steel macrocore to a depth of 13' bgs. 10-feet of Schedule-40, 0.020-inch slotted 2-inch diameter PVC screen was installed from 3-13' bgs. No. 2 Sand was backfilled to approximately 2-feet above the top of screen. A 0.5-foot bentonite seal was installed above the sand. Manhole installed and secured with concrete.

Method of Well Development

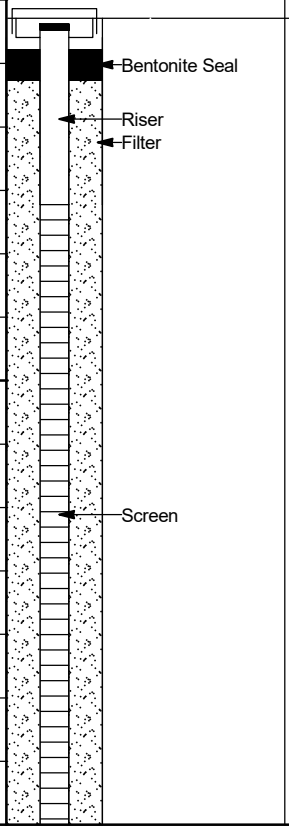
LMW-9 was developed using surge pumping techniques across the well screen in 2- to 3-foot increments. After surging, the well was purged via pumping until the water became clear. Purge water was collected in 55-gallon drums for future offsite disposal.

Type of Casing: -- / Diameter: --	Type of Backfill Material: Non-Impacted Drill Cuttings
Type of Screen: Schedule-40 PVC / Diameter: 2-inch	Type of Seal Material: Bentonite
Borehole Diameter: 3.75-inch	Type of Filter Material: No. 2 Sand

	Elevation	Depth
Top of Casing	16.31'	0.25' bgs
Top of Seal	16.06'	0.5' bgs
Top of Filter	15.56'	1' bgs
Top of Screen	13.56'	3' bgs
Bottom of Filter	3.56'	13' bgs
Bottom of Well	3.56'	13' bgs
Screen Length: 10.0'		Slot Size: 0.020

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
6.38'	9.93'	9/2/2020
6.40'	9.91'	9/10/2020



Soil / Rock Classification	Depth (ft)
Fill	0.25
	1
	3
	13

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Log of Boring **LSB-37A** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Dark gray GRAVEL, Asphalt (dry)[FILL] Brown fine-coarse SAND, trace brick, trace fine gravel (moist)[FILL]	0	M-1A				0.0	Started Drilling at 6/15/2021 7:57 AM
			1					0.0	
			2		Macrocore	24		0.0	
			3					0.0	
			4	M-1B				0.0	
								0.0	
		Brown fine-coarse SAND, trace brick, trace fine gravel (moist)[FILL]	5					0.0	
			6	M-2A				0.0	
		Grayish brown to dark grayish brown fine SAND, some silt, trace clay, trace fine gravel (moist)	7		Macrocore	48		0.0	
			8					0.0	
		▽	9	M-2B				0.0	
								0.0	
		Grayish brown to dark grayish brown fine SAND, some silt, trace clay, trace fine gravel (wet)	10					0.0	
			11					0.0	
			12	M-3	Macrocore	42		0.0	
			13					0.0	
								0.0	
			14					0.0	Collect 131_LSB-37A_14.0-16.0 (MS/MSD)
		Grayish brown to dark grayish brown fine SAND, some silt, trace clay (wet)	15					0.0	
			16	M-4A	Macrocore	36		0.0	Collect 132_LSB-37A_16.0-18.0
		Gray SAND, some silt, trace organics (moist)	17					0.0	
				M-4B				0.0	
			18						Bottom of boring at 6/15/2021 8:22 AM
			19						
			20						

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Log of Boring **LSB-39A** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 8 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Gray GRAVEL, ASPHALT (dry) Reddish brown fine-medium SAND, some f-m gravel, trace wood, trace slag (dry)[FILL]	0	M-1A	Macrocore	42		0.0	Started Drilling at 6/16/2021 7:49 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4	M-1B				0.0	
		Reddish brown fine-medium SAND, some f-m gravel, trace wood, trace slag (dry)[FILL]	5					0.0	
			6					0.0	
			7	M-2A	Macrocore	48		0.0	
		Brownish gray to brown SAND, some f-m gravel, trace silt (wet)	8 ▽					0.0	
			9	M-2B				0.0	
		Brownish gray fine-medium SAND, trace silt, trace f-m gravel (wet)	10					0.0	
			11					0.0	
			12	M-3	Macrocore	42		0.0	
			13					0.0	
			14					0.0	Collect 159_LSB-39A_14.0-16.0
		Brownish gray fine-medium SAND, trace silt, trace f-m gravel (wet)	15					0.0	
			16	M-4	Macrocore	36		0.0	Collect 160_LSB-39A_16.0-18.0
			17					0.0	
			18						Bottom of boring at 6/16/2021 8:05 AM
			19						
			20						

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Log of Boring **LSB-59** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth:
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 10, Completion ▼, 24 HR. ▼
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 inx 5 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown to grayish brown fine-medium SAND, some fine gravel, trace brick, trace slag (moist)[FILL]	0	M-1	Macrocore	48		0.0	Started Drilling at 6/15/2021 8:27 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
		Reddish brown to grayish brown fine-medium SAND, some fine gravel, trace brick, trace slag, trace clay (moist)[FILL]	5	M-2	Macrocore	36		0.0	
			6					0.0	
			7					0.0	
			8					0.0	
			9					0.0	
		Grayish brown fine-medium SAND, trace silt (wet)	10 ▽	M-3	Macrocore	48		0.0	
			11					0.0	
			12					0.0	Collect 133_LSB-59_12.0-14.0 & 136_DUP-3
			13					0.0	
			14					0.0	Collect 134_LSB-59_14.0-16.0
		Dark grayish brown fine-medium SAND, some silt, trace organics (wet)	15	M-4	Macrocore	36		0.0	
			16					0.0	Collect 135_LSB-59_16.0-18.0
			17					0.0	
			18						Bottom of boring at 6/15/2021 8:48 AM
			19						
			20						

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Log of Boring **LSB-60** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 10 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown fine SAND, trace slag, trace brick, trace silt (moist)	0					0.0	Started Drilling at 6/15/2021 8:48 AM
			1					0.0	
			2	M-1	Macrocore	42		0.0	
			3					0.0	
			4					0.0	
		Reddish brown fine SAND, trace slag, trace brick, trace silt (moist)	5					0.0	
			6	M-2A				0.0	
		Grayish brown fine-medium SAND, trace slag, trace silt, trace fine gravel (moist)	7		Macrocore	54		0.0	
			8					0.0	
			9	M-2B				0.0	
		Dark grayish brown SAND, trace silt, trace fine gravel (wet)	▽ 10					0.0	
			11					0.0	
			12	M-3	Macrocore	42		0.0	Collect 137_LSB-60_12.0-14.0
			13					0.0	
			14					0.0	Collect 138_LSB-60_14.0-16.0
		Dark grayish brown SAND, trace silt, trace fine gravel (wet)	15					0.0	
			16	M-4A	Macrocore	30		0.0	Collect 139_LSB-60_16.0â€18.0
		Tannish gray SILT, some clay, trace organics (moist)	17					0.0	
			18	M-4B					Bottom of boring at 6/15/2021 8:58 AM
			19						
			20						

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Log of Boring **LSB-61** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 10 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown fine-medium SAND, some brick, some f-m gravel, trace silt (dry)	0	M-1	Macrocore	30		0.0	Started Drilling at 6/15/2021 9:11 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Reddish brown fine-medium SAND, some brick, some f-m gravel, trace silt (dry)	6	M-2	Macrocore	24		0.0	
			7					0.0	
			8					0.0	
			9					0.0	
		Brownish gray fine-medium SAND, some fine gravel, trace silt (wet)	▽ 10					0.0	
			11					0.0	
			12	M-3	Macrocore	42		0.0	Collect 140_LSB-61_12.0-14.0
			13					0.0	
			14					0.0	Collect 141_LSB-61_14.0-16.0
		Brownish gray fine SAND, trace clay, trace silt, trace fine gravel (wet)	15					0.0	
			16	M-4A	Macrocore	30		0.0	Collect 142_LSB-61_16.0-18.0
		Gray SILT, trace clay, trace organics (moist)	17	M-4B				0.0	
			18						Bottom of boring at 6/15/2021 9:34 AM
			19						
			20						

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Log of Boring **LSB-62** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Grayish brown fine-medium SAND, some fine gravel, trace slag, trace brick (dry)	0					0.0	
			1					0.0	
			2	M-1	Macrocore	42		0.0	
			3					0.8	
			4					0.0	
		Grayish brown fine-medium SAND, some fine gravel, trace slag, trace brick (moist)	5					0.0	
			6					0.0	
			7	M-2A	Macrocore	42		0.0	
			8					0.0	
		Reddish brown fine SAND, trace silt, trace fine gravel (wet)	9 ▽	M-2B				0.0	
		Grayish brown fine-medium SAND, trace slag, trace brick, trace wood, trace fine gravel (wet)	10					0.0	
			11					0.0	
			12	M-3	Macrocore	48		0.0	Collect 143_LSB-62_12.0-14.0
			13					0.0	
			14					0.0	Collect 144_LSB-62_14.0-16.0
		Grayish brown fine-medium SAND, trace slag, trace brick, trace wood, trace fine gravel (wet)	15					0.0	
			16	M-4A	Macrocore	36		0.0	Started Drilling at 6/15/2021 9:34 AM. Collect 145_LSB-62_16.0-18.0
		Brownish gray SILT, some fine sand, trace clay, trace organics (moist)	17	M-4B				0.0	
			18						Bottom of boring at 6/15/2021 9:49 AM
			19						
			20						

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Log of Boring **LSB-63** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 8, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown to brown fine-medium SAND, some slag, some f-m gravel, trace brick (moist)	0	M-1	Macrocore	40		0.0	Started Drilling at 6/15/2021 10:14 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
		Reddish brown to brown fine-medium SAND, some slag, some f-m gravel, trace brick (moist)	5	M-2A	Macrocore	36		0.0	
		Light brown to tannish brown fine-medium SAND, trace silt, trace fine gravel (wet)	6					0.0	
			7					0.0	
		▽	8					0.0	
			9	M-2B				0.0	
		Grayish brown to brown fine-medium SAND, trace silt, trace f-m gravel (wet)	10	M-3	Macrocore	42		0.0	
			11					0.0	
			12					0.0	Collect 146_LSB-63_12.0-14.0
			13					0.0	
			14					0.0	Collect 147_LSB-63_14.0-16.0
		Grayish brown fine-medium SAND, trace silt, trace f-m gravel (wet)	15					0.0	
			16	M-4A	Macrocore	36		0.0	Collect 148_LSB-63_16.0-18.0
		Gray SILT, some clay, trace organics (moist)	17	M-4B				0.0	
			18						Bottom of boring at 6/15/2021 10:28 AM
			19						
			20						

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Log of Boring **LSB-64** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 8, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Brownish brown medium-fine SAND, some brick, some f-m gravel, trace slag (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/15/2021 10:36 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Grayish brown fine-medium SAND, trace silt, trace f-m gravel (moist)	6	M-2A				0.0	
		Grayish brown fine-medium SAND, trace silt, trace f-m gravel (wet)	7	M-2B	Macrocore	42		0.0	
			8 ▽					0.0	
			9					0.0	
		Brownish gray medium-fine SAND, trace silt, trace fine gravel (wet)	10	M-3	Macrocore	42		0.0	
			11					0.0	
			12					0.0	Collect 149_LSB-64_12.0-14.0
			13					0.0	
			14					0.0	Collect 150_LSB-64_12.0-14.0
		Brownish gray medium-fine SAND, trace silt, trace fine gravel (wet)	15	M-4A	Macrocore	36		0.0	
		Grayish gray SILT, some organics, trace clay (moist)	16					0.0	Collect 151_LSB-64_16.0-18.0
			17	M-4B				0.0	
			18						Bottom of boring at 6/15/2021 10:46 AM
			19						
			20						

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Log of Boring **LSB-65** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First --- / Completion --- / 24 HR. ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Grayish brown fine-medium SAND, some slag, some f-m gravel, trace brick (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/15/2021 10:53 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Brown fine-medium SAND, some fine gravel, trace concrete, trace brick (dry)	6	M-2A	Macrocore	48		0.0	
		Brownish gray fine-medium SAND, trace silt, trace fine gravel (moist)	7					0.0	
			8					0.0	
			9	M-2B				0.0	
		Grayish brown fine-medium SAND, trace silt, trace fine gravel (wet)	10	M-3	Macrocore	48		0.0	
			11					0.0	
			12					0.0	Collect 152_LSB-65_12.0-14.0
			13					0.0	
			14					0.0	Collect 153_LSB-65_14.0-16.0
		Grayish brown fine-medium SAND, trace silt, trace fine gravel (wet)	15	M-4A	Macrocore	36		0.0	
		Grayish brown fine SAND, some silt, trace fine gravel (wet)	16					0.0	Collect 154_LSB-65_16.0-18.0
			17	M-4B				0.0	
			18						Bottom of boring at 6/15/2021 11:06 AM
			19						
			20						

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Log of Boring **LSB-66** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.61-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/15/2021 / Date Finished: 06/15/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 10 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Tannish brown fine-medium SAND, some brick, some f-m gravel, trace slag (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/15/2021 12:27 PM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Tannish brown fine-medium SAND, some brick, some f-m gravel, trace slag (moist)	6	M-2A	Macrocore	42		0.0	
			7					0.0	
			8					0.0	
		Grayish brown fine-medium SAND, trace silt, trace f-m gravel (moist)	9	M-2B				0.0	
		Tannish brown to grayish brown fine-medium SAND, trace silt, trace f-m gravel (wet) ▽	10	M-3	Macrocore	48		0.0	
			11					0.0	
			12					0.0	Collect 155_LSB-66_12.0-14.0
			13					0.0	
			14					0.0	Collect 156_LSB-66_14.0-16.0
		Dark brown to grayish brown fine-medium SAND, some silt, trace f-m gravel (wet)	15	M-4	Macrocore	36		0.0	
			16					0	Collect 157_LSB-66_16.0-18.0
			17					0.0	
			18					0.0	Bottom of boring at 6/15/2021 12:35 PM
			19						
			20						

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Log of Boring **LSB-67** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 8 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Brown to reddish brown fine-medium SAND, trace brick, trace slag, trace wood, trace f-c gravel (dry)[FILL]	0	M-1	Macrocore	42		0.0	Started Drilling at 6/16/2021 8:13 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
		Brown to reddish brown fine-medium SAND, trace brick, trace slag, trace wood, trace f-c gravel (dry)[FILL]	5	M-2A	Macrocore	42		0.0	
			6					0.0	
			7					0.0	
		Brownish gray fine-coarse SAND, trace f-m gravel (wet)	8 ▽	M-2B				0.0	
			9					0.0	
		Brownish gray medium SAND, trace silt, trace f-m gravel (wet)	10	M-3	Macrocore	48		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
		Brownish gray medium SAND, trace silt, trace f-m gravel (wet)	15	M-4A	Macrocore	36		0.0	
			16					0.0	
		Brownish gray SILT, some organics, trace fine sand (moist)	17	M-4B				0.1	
			18					0.0	Bottom of boring at 6/16/2021 8:39 AM
			19						
			20						

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Log of Boring **LSB-68** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Grayish brown to reddish brown medium-fine SAND, trace slag, trace wood, trace f-m gravel (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/16/2021 8:39 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Grayish brown to reddish brown medium-fine SAND, trace slag, trace wood, trace f-m gravel (dry)	6	M-2A	Macrocore	42		0.0	
			7					0.0	
			8					0.0	
		Brownish gray fine-medium SAND, some fine gravel, trace silt (wet)	9 ▽	M-2B				0.0	
		Brownish gray fine-medium SAND, some fine gravel, trace silt (wet)	10	M-3	Macrocore	42		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
		Brownish gray fine-medium SAND, some fine gravel, trace silt (wet)	15	M-4A	Macrocore	36		0.0	
		Gray to brownish gray fine SAND, some silt, trace fine gravel (wet)	16					0.0	
			17	M-4B				0.0	
			18						Bottom of boring at 6/16/2021 8:45 AM
			19						
			20						

\\LANGAN.COM\DATA\PAR\DATA1\100765102\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\100765102_ENTERPRISE.GPJ ... 8/24/2022 1:42:50 PM ... Report: Log - LANGAN

LANGAN

Log of Boring **LSB-69** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4 / Undisturbed --- / Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9 / Completion ▼ --- / 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown fine-coarse SAND, some fine gravel, trace brick, trace slag (dry)	0	M-1	Macrocore	36		0.0	Started Drilling at 6/16/2021 9:02 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Reddish brown fine-coarse SAND, some fine gravel, trace brick, trace slag (dry)	6	M-2A	Macrocore	42		0.0	
			7					0.0	
			8					0.0	
		Reddish brown fine-coarse SAND, some fine gravel (wet)	9 ▽	M-2B				0.0	
		Grayish gray fine-medium SAND, trace silt, trace fine gravel (wet)	10	M-3	Macrocore	48		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
		Grayish brown fine-medium SAND, trace silt, trace fine gravel (wet)	15	M-4	Macrocore	36		0.0	
			16					0.0	
			17					0.0	
			18					0.0	Bottom of boring at 6/16/2021 9:08 AM
			19						
			20						

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Log of Boring **LSB-70** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown fine-medium SAND, some brick, trace slag, trace f-m gravel (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/16/2021 9:30 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Reddish brown fine-medium SAND, some brick, trace slag, trace f-m gravel (dry)	6	M-2A	Macrocore	42		0.0	
			7					0.0	
			8					0.0	
		Gray to brownish gray fine-medium SAND, some fine gravel (wet)	9 ▽	M-2B				0.0	
		Gray to brownish gray fine-medium SAND, some fine gravel (wet)	10	M-3	Macrocore	48		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
		Gray to brownish gray fine-medium SAND, trace silt, trace fine gravel (wet)	15	M-4	Macrocore	36		0.0	
			16					0.0	
			17					0.0	
			18					0.0	Bottom of boring at 6/16/2021 9:33 AM
			19						
			20						

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Log of Boring **LSB-71** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 8, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Light brown to grayish brown fine-medium SAND, some f-m gravel, trace slag (dry)	0					0.0	Started Drilling at 6/16/2021 9:55 AM
			1					0.0	
			2	M-1	Macrocore	36		0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Light brown to grayish brown fine-medium SAND, some f-m gravel, trace slag (dry)	6					0.0	
			7	M-2A	Macrocore	48		0.0	
			8 ▽					0.0	
		Grayish brown to gray fine-coarse SAND, some f-m gravel (wet)	9	M-2B				0.0	
			10					0.0	
		Grayish brown fine-medium SAND, trace f-m gravel (wet)	11					0.0	
			12	M-3	Macrocore	42		0.0	
			13					0.0	
			14					0.0	
			15					0.0	
		Grayish brown fine-medium SAND, trace f-m gravel (wet)	16	M-4A				0.0	
		Brownish orange SILT, some clay, some organics (moist)	17	M-4B	Macrocore	36		0.1	
			18					0.0	Bottom of boring at 6/16/2021 10:00 AM
			19						
			20						

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Log of Boring **LSB-72** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 9, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown fine-medium SAND, some f-m gravel, trace slag, trace brick (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/16/2021 10:30 AM
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	
		Reddish brown fine-medium SAND, some f-m gravel, trace slag, trace brick (dry)	6	M-2A	Macrocore	36		0.0	
			7					0.0	
			8					0.0	
		Reddish brown fine-medium SAND, some f-m gravel (wet)	9 ▽	M-2B				0.0	
		Brownish gray fine-medium SAND, some fine gravel, trace silt (wet)	10	M-3	Macrocore	48		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
		Brownish gray fine-medium SAND, some silt, trace fine gravel (wet)	15	M-4	Macrocore	36		0.0	
			16					0.0	
			17					0.0	
			18					0.0	Bottom of boring at 6/16/2021 10:45 AM
			19						
			20						

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Log of Boring **LSB-73** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 10, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Reddish brown fine-medium SAND, some f-m gravel, trace brick, trace slag (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/16/2021 11:20 AM
		Reddish brown fine-medium SAND, some f-m gravel, trace slag (dry)	5	M-2	Macrocore	36		0.0	
		Brownish gray to gray fine-medium SAND, some fine gravel (wet)	10 ▽	M-3A	Macrocore	48		0.0	
		Brownish gray fine SAND, trace silt, trace fine gravel (moist)	14	M-3B				0.0	
		Brownish gray fine SAND, trace silt, trace fine gravel (wet)	15	M-4	Macrocore	36		0.0	Bottom of boring at 6/16/2021 11:49 AM
			18						
			20						

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Log of Boring **LSB-74** Sheet 1 of 1

Project: 280 West 155th Street	Project No.: 100765102
Location: New York, New York	Elevation and Datum: Approx. 15.82-ft NAVD 88
Drilling Company: AARCO Environmental Services Corp.	Date Started: 06/16/2021 / Date Finished: 06/16/2021
Drilling Equipment: Geoprobe 7822 DT	Completion Depth: 18 ft / Rock Depth: ---
Size and Type of Bit: 2in Stainless Steel Direct Push	Number of Samples: Disturbed 4, Undisturbed ---, Core ---
Casing Diameter (in): --- / Casing Depth (ft): ---	Water Level (ft.): First ▽ 10, Completion ▼ ---, 24 HR. ▼ ---
Casing Hammer: --- / Weight (lbs): --- / Drop (in): ---	Drilling Foreman: Sergio
Sampler: 1.75 in x 4 ft Acetate Lined Macrocore	Field Engineer: Molly Mattern
Sampler Hammer: --- / Weight (lbs): --- / Drop (in): ---	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Tannish reddish brown fine-medium SAND, some f-m gravel, trace wood, trace slag (dry)	0	M-1	Macrocore	42		0.0	Started Drilling at 6/16/2021 12:02 PM
		Tannish reddish brown fine-medium SAND, some f-m gravel, trace slag (moist)	5	M-2	Macrocore	42		0.0	
		Brownish gray fine-coarse SAND, some fine gravel (wet)	10 ▽	M-3A	Macrocore	48		0.0	
		Brownish gray fine-medium SAND, trace silt, trace fine gravel (wet)	13	M-3B				0.0	
		Brownish gray fine-medium SAND, trace silt, trace fine gravel (wet)	15	M-4	Macrocore	36		0.0	Bottom of boring at 6/16/2021 12:07 PM
			18						
			20						

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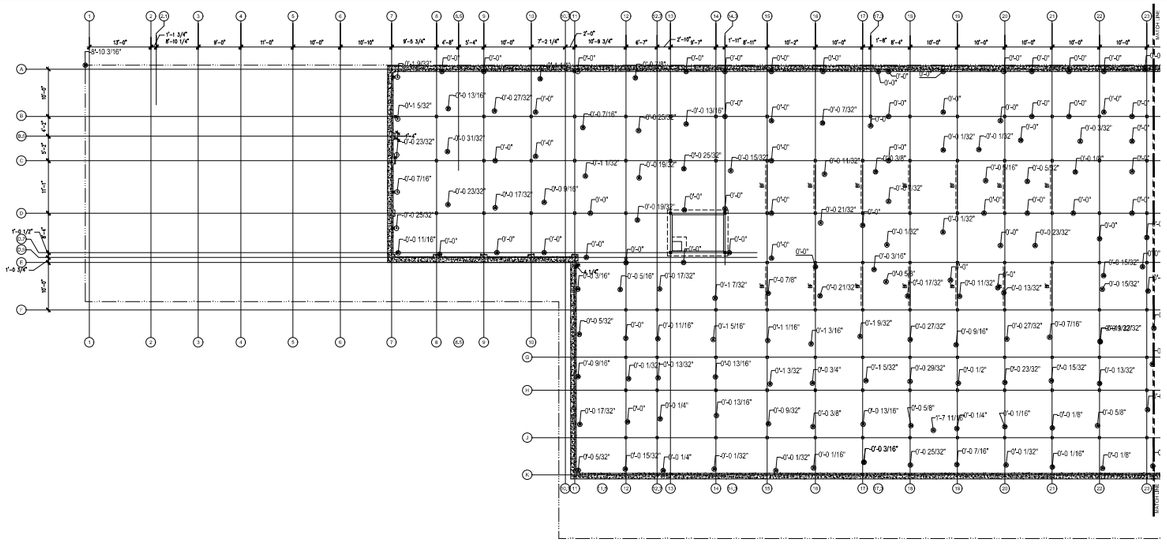
APPENDIX D

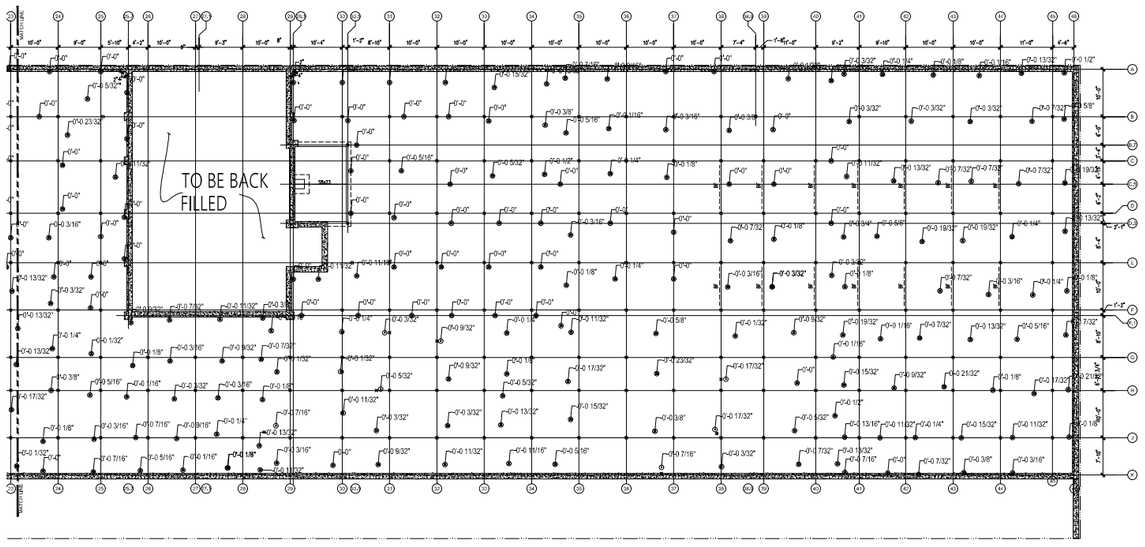
FOUNDATION DRAWINGS



CELLAR FLOOR PLAN (PARTIAL)

SCALE $\frac{1}{32}$": 1'-0" (1:384)

NOTES:
16" CONCRETE SLAB ON GRADE
TOP OF SLAB ELEVATION 8.85'



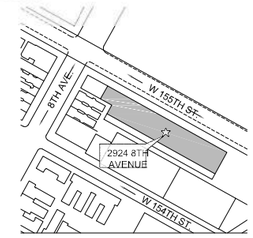
CELLAR FLOOR PLAN (PARTIAL)

SCALE $\frac{1}{32}$": 1'-0" (1:384)

LEGEND:
+X'-X" =ABOVE DESIGN ELEVATION
-X'-X" =BELOW DESIGN ELEVATION

STRUCTURE TECH NEW YORK
500 SEVENTH AVE, 10TH FLOOR
NEW YORK, NY 10018

LOCATION



280 WEST 155TH STREET
NEW YORK, NY 10039

PROJECT
280 WEST 155TH STREET

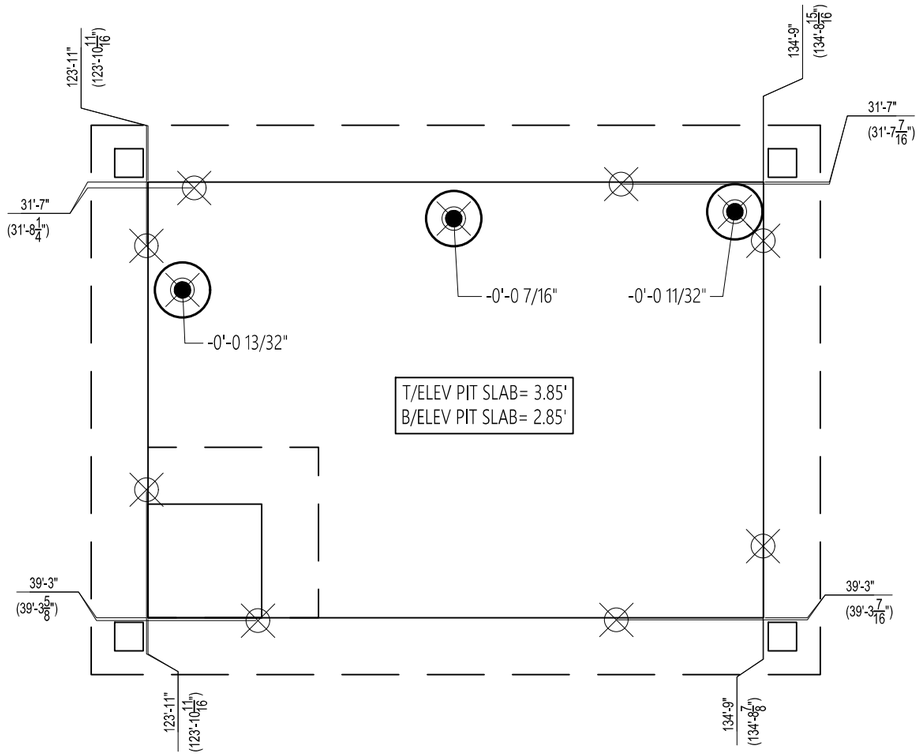
TITLE
CELLAR SLAB.
AS BUILT TOP OF SLAB

REV.	DATE	STATUS DESCRIPTION

DATE: 04.29.2022
BY: AM
CHECKED BY: AC
SCALE: AS INDICATED
PROJECT NO. J0495
DRAWING NO. AB-05
PAGE 1 OF 1

SIGN AND SEAL

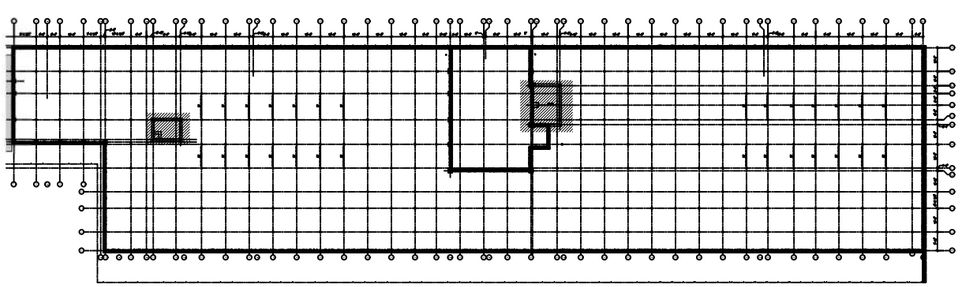
4-29-22



EAST ELEVATOR

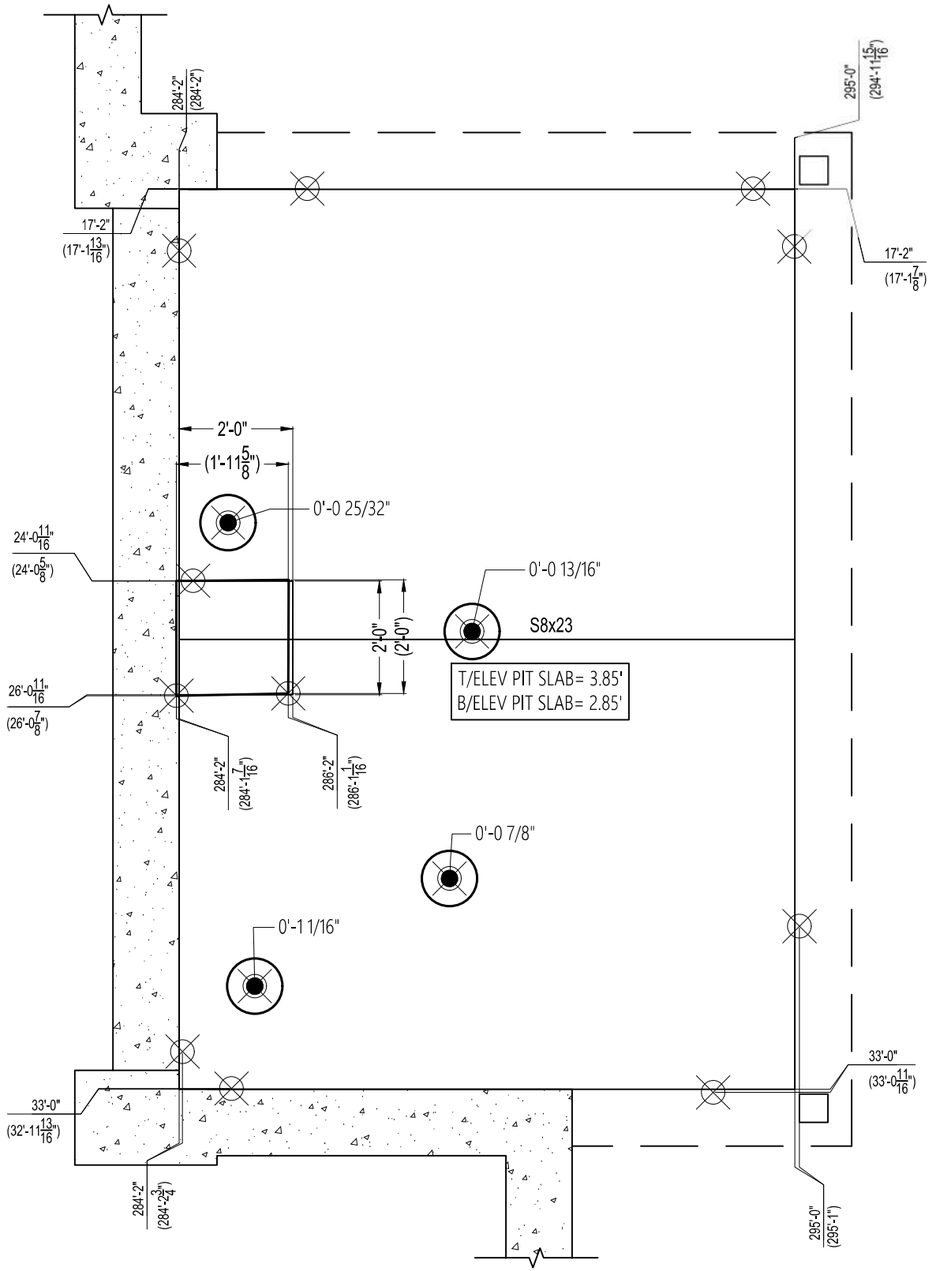
SCALE $\frac{3}{8}$":1'-0" [1:32]

LEGEND:
X'-X"= DESIGN COORDINATE
(X'-X") = AS BUILT COORDINATE
+X'-X" = ABOVE DESIGN ELEVATION
-X'-X" = BELOW DESIGN ELEVATION



KEY PLAN

SCALE $\frac{1}{64}$": 1'-0" (1:768)



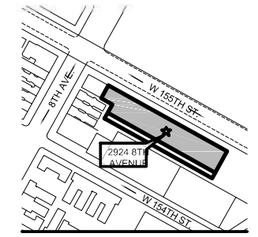
WEST ELEVATOR

SCALE $\frac{3}{8}$":1'-0" [1:32]

LEGEND:
X'-X"= DESIGN COORDINATE
(X'-X") = AS BUILT COORDINATE
+X'-X" = ABOVE DESIGN ELEVATION
-X'-X" = BELOW DESIGN ELEVATION

STRUCTURE TECH NEW YORK
500 SEVENTH AVE, 10TH FLOOR
NEW YORK, NY 10018

LOCATION



280 WEST 155TH STREET
NEW YORK, NY 10039

PROJECT
280 WEST 155TH STREET

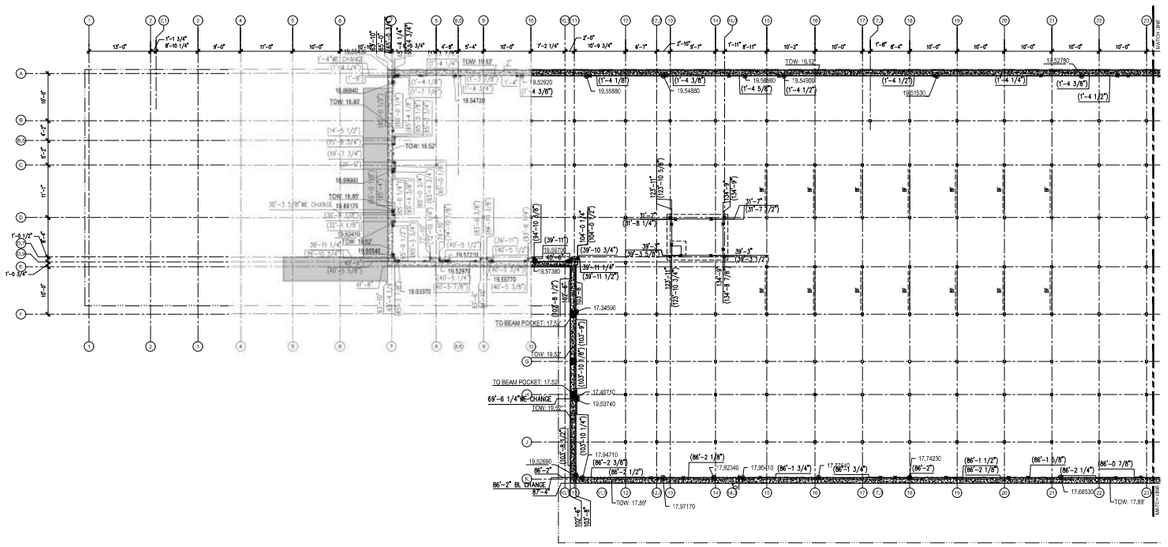
TITLE
AS BUILT FOR ELEVATOR PITS

REV.	DATE	STATUS DESCRIPTION

DATE: 04.27.2022
BY: AM
CHECKED BY: AC
SCALE: N.T.S
PROJECT NO. J0495
DRAWING NO. AB–09
PAGE 1 OF 1

SIGN AND SEAL

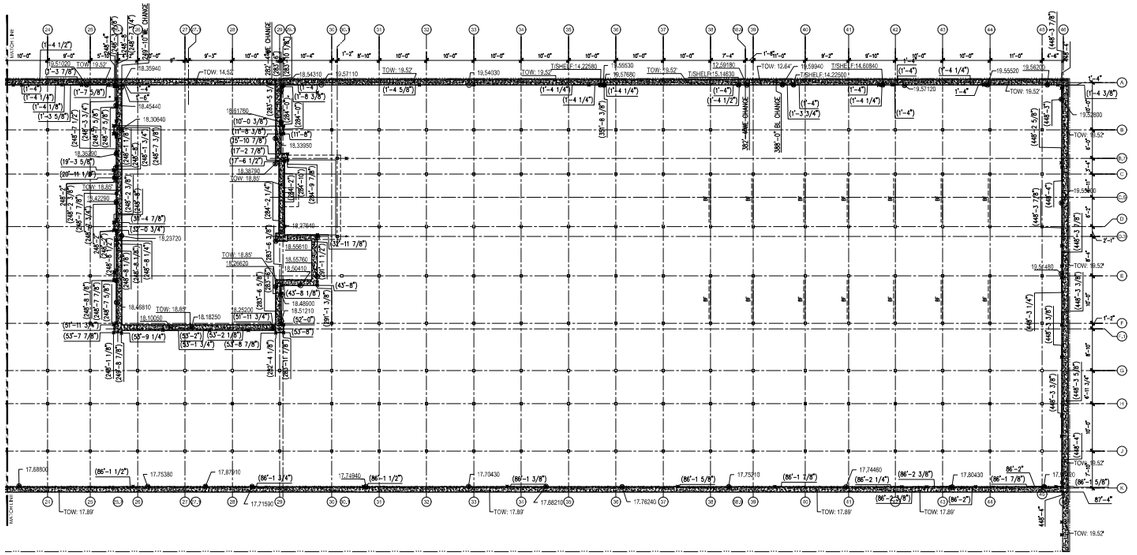
5-12-22



CELLAR FLOOR PLAN (PARTIAL)

SCALE $\frac{1}{32}$": 1'-0" (1:384)

LEGEND:
X'-X"= DESIGN COORDINATE
(X'-X") = AS BUILT COORDINATE
TOW=DESIGN TOP OF WALL ELEVATION
X.XX = AS BUILT ELEVATION

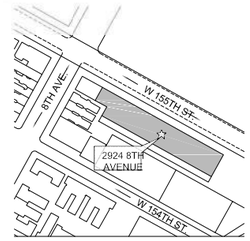


CELLAR FLOOR PLAN (PARTIAL)

SCALE $\frac{1}{32}$": 1'-0" (1:384)

STRUCTURE TECH NEW YORK
500 SEVENTH AVE, 10TH FLOOR
NEW YORK, NY 10018

LOCATION



280 WEST 155TH STREET
NEW YORK, NY 10039

PROJECT
280 WEST 155TH STREET

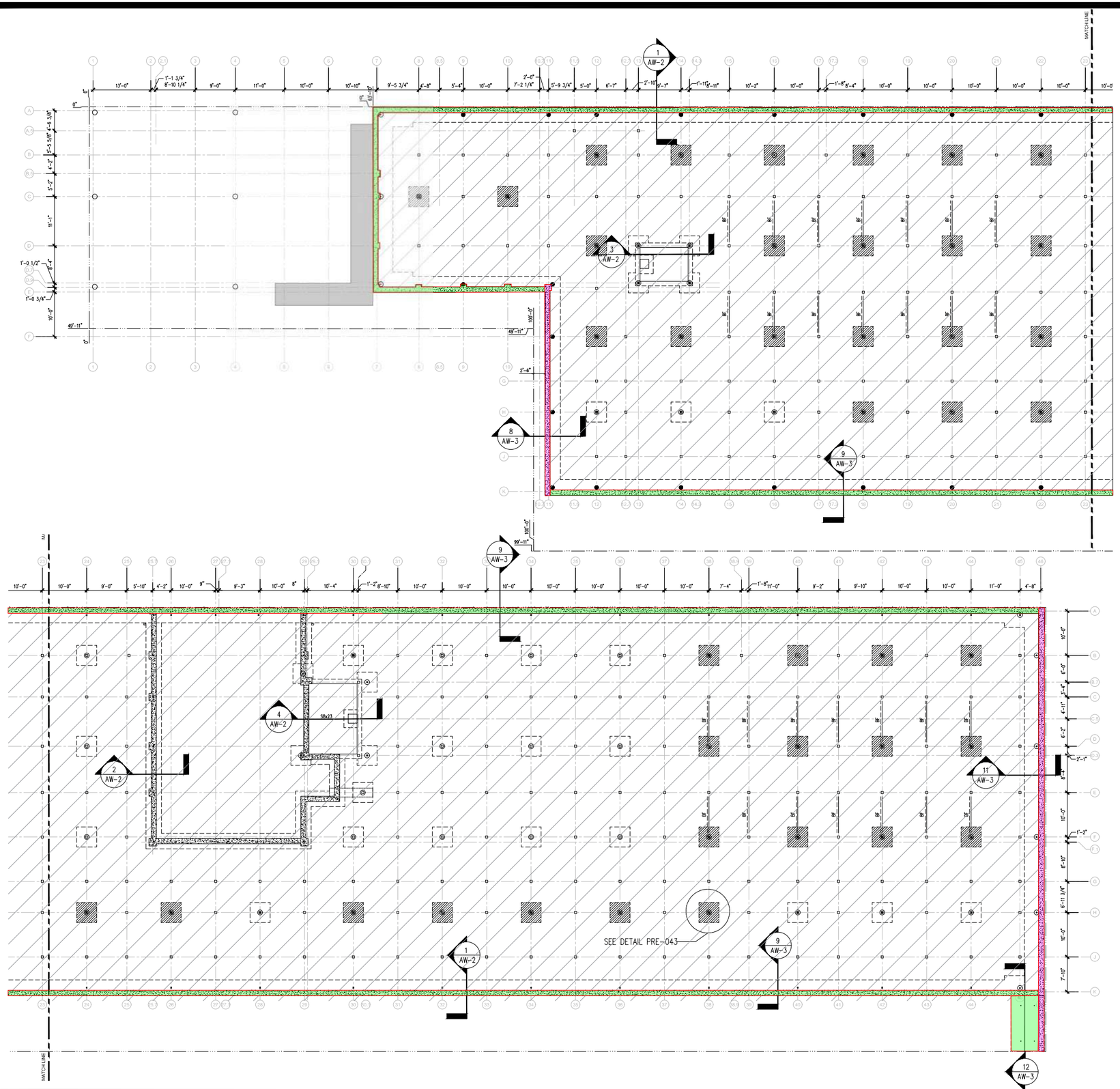
TITLE
AS BUILT FOUNDATION WALLS

REV.	DATE	STATUS DESCRIPTION

DATE: 05/12/2022
BY: AM
CHECKED BY: AC
SCALE: N.T.S
PROJECT NO. J0495
DRAWING NO. AB-06
PAGE 1 OF 1

SIGN AND SEAL

5-12-22



NOTES:

- T/SLAB= -10.00'(+8.85 NAVD88')
- 3" MUD SLAB INSTALLED BELOW WATERPROOFING.
- GC TO PROTECT ALL WATERPROOFING T.O.W. LAP FOR ABOVE GRADE CONTRACTOR TO DO CONNECTION FROM BELOW GRADE WATERPROOFING.
- LT MEMBRANES TO BE USED AT LOW TEMPERATURES.

PREPRUFE 300R/PLUS/LT MEMBRANE

BITUTHENE 4000 MEMBRANE

PREPRUFE 160R/PLUS/LT MEMBRANE

STRUCTURETECH

500 SEVENTH AVE, 10TH FLOOR
NEW YORK, NY 10018

LOCATION:

KEY MAP

PROJECT
280 WEST 155TH STREET
FOUNDATION

TITLE
AS BUILT FOR WATERPROOFING FOUNDATION PLAN

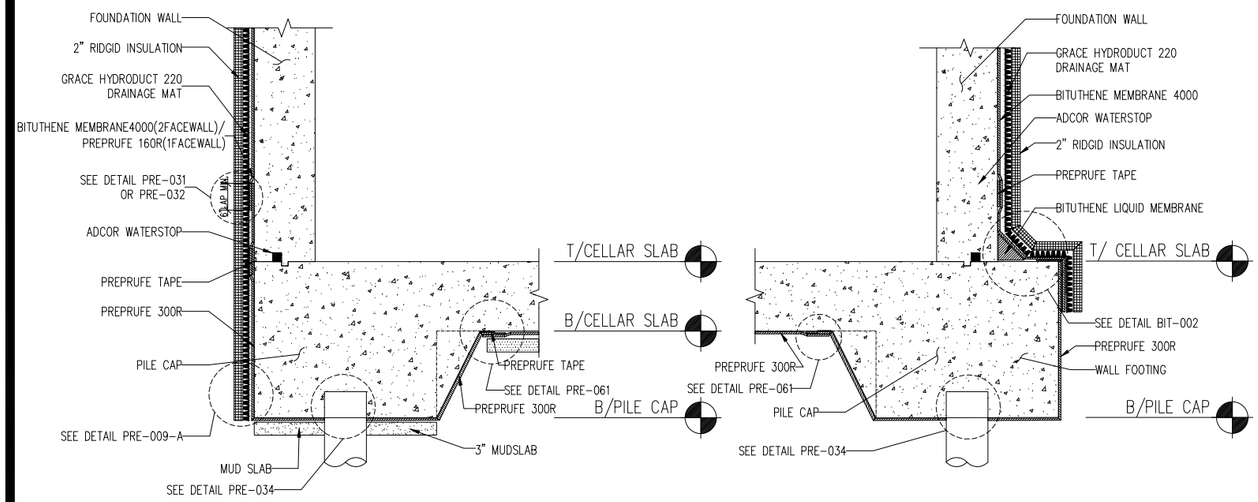
REV.	DATE	STATUS DESCRIPTION

DATE: 05/19/2022
BY: A.M.
CHECKED BY: A.C.
SCALE: N.T.S
PROJECT NO. J0495
DRAWING NO. AW-02
PAGE 1 OF 3

SIGN AND SEAL

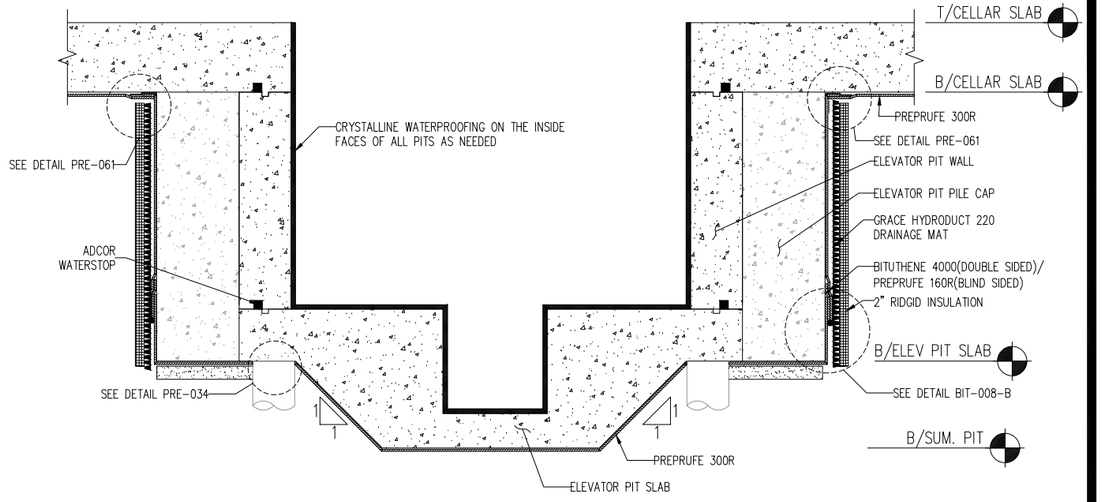
STATE OF NEW YORK
ALMER I CAMARGO
105749
LICENSED PROFESSIONAL ENGINEER

6-15-22

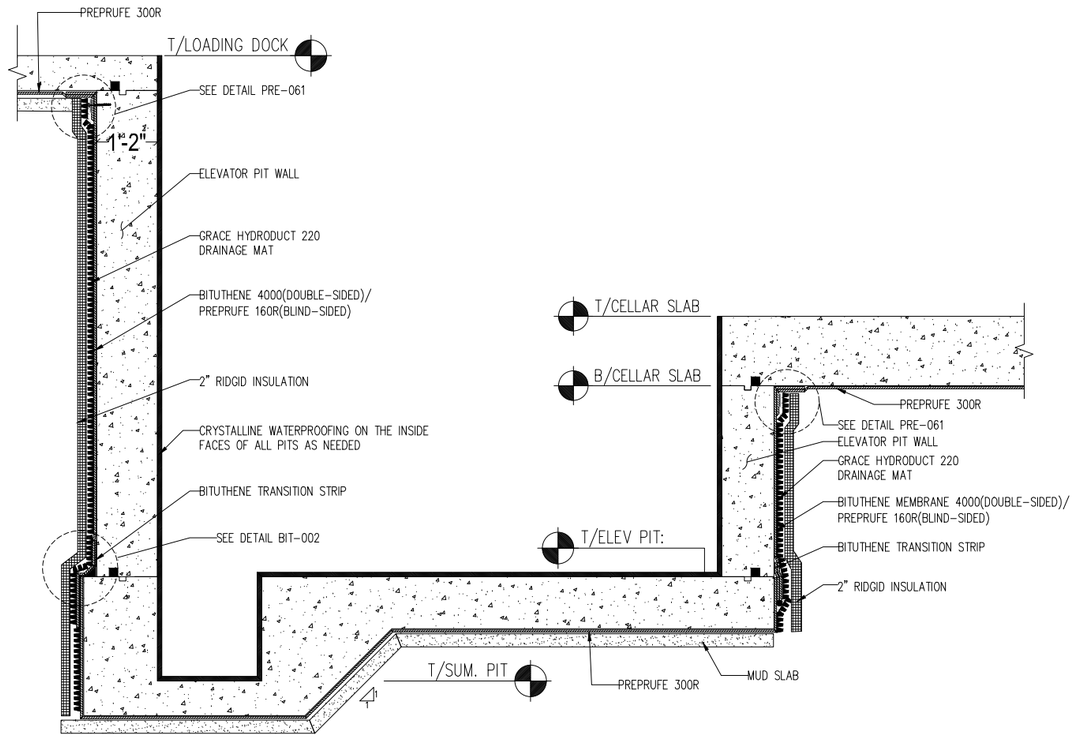


1 TYPICAL FTG AT FOUNDTAION WALLS
SCALE: $\frac{3}{4}$"=1'-0"

2 WP AT LOADING DOCK
SCALE: $\frac{3}{4}$"=1'-0"



3 SECTION AT ELEVATOR PIT
SCALE: $\frac{3}{4}$"=1'-0"



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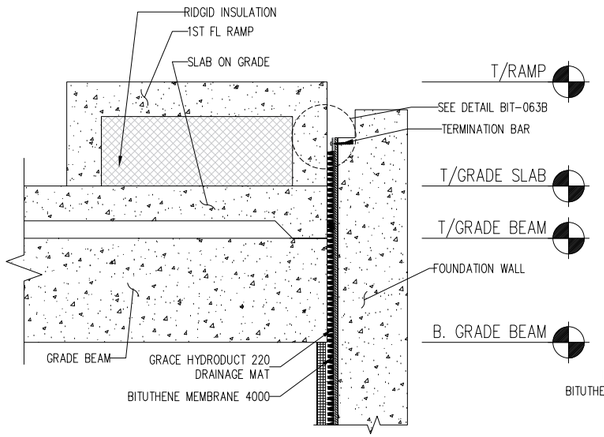
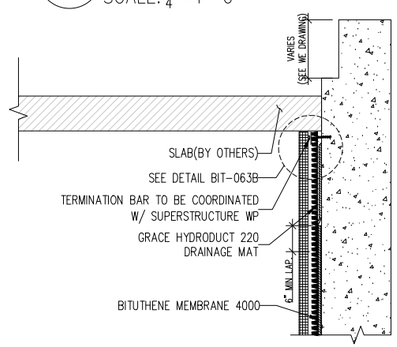
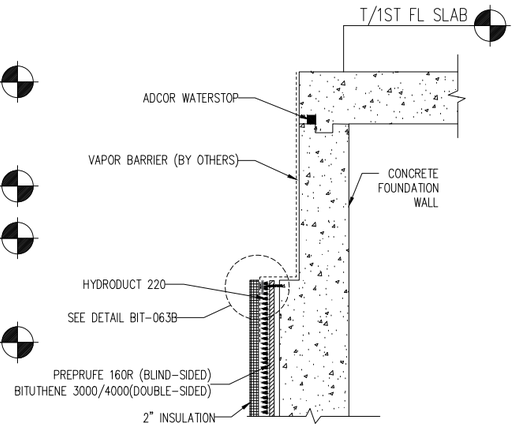


5 WEST FDN WALL TO 1ST FL
SCALE: $\frac{3}{4}$"=1'-0"



6 TYP. TERMINATION @ TOP OF FDN WALL
SCALE: $\frac{3}{4}$"=1'-0"



7 TYP. TERMINATION BELOW BRICK SHELF
SCALE: $\frac{3}{4}$"=1'-0"

NOTE:
-PROPOSED TO TERMINATE BELOW SHELF TO PROTECT MEMBRANE DAMAGE BY OTHER TRADES.
-VAPOR BARRIER TO LAP IN 6" TO FOUNDATION BELOW GRADE WATERPROOFING.

STRUCTURE TECH
500 SEVENTH AVE, 10TH FLOOR NEW YORK, NY 10018

LOCATION
KEY MAP

PROJECT
280 WEST 155TH STREET
FOUNDATION

TITLE
AS BUILT FOR WATERPROOFING FOUNDATION SECTIONS

REV.	DATE	STATUS DESCRIPTION

DATE: 05/19/2022
BY: A.M.
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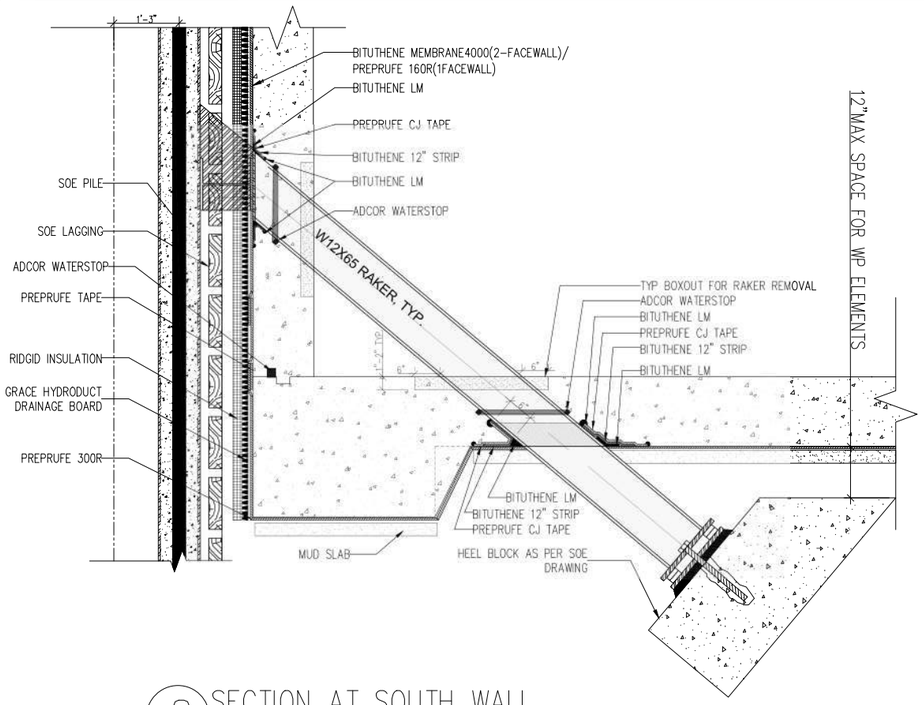
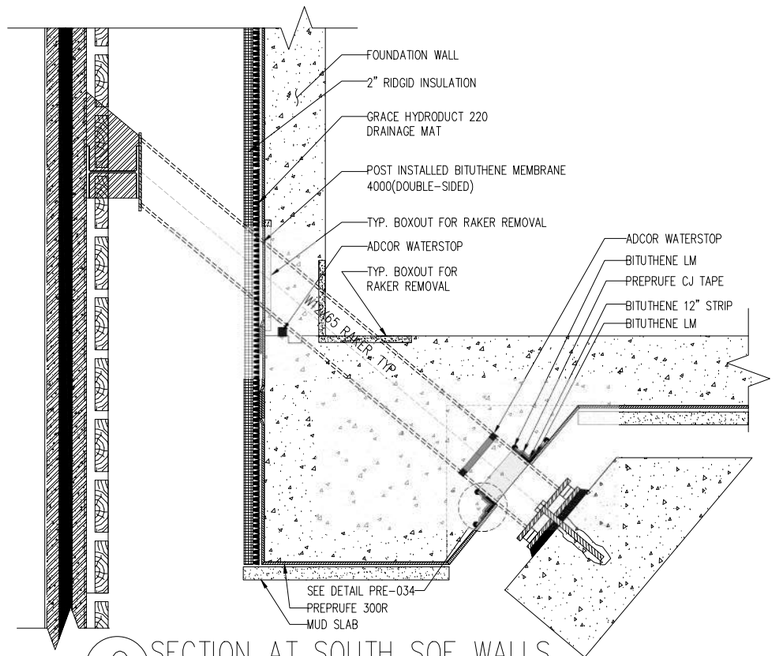
SCALE: N.T.S
PROJECT NO. J0495
DRAWING NO. AW-02
PAGE 2 OF 3

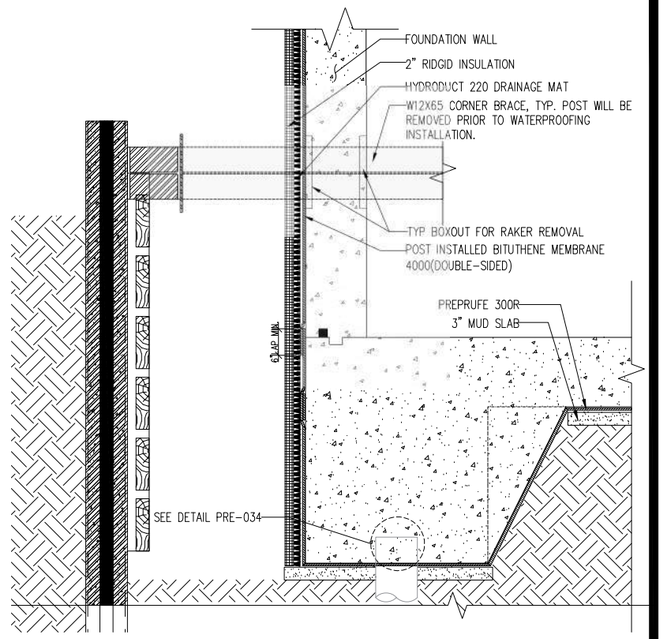
SIGN AND SEAL
STATE OF NEW YORK ALBER Y. CAMARGO 105749 LICENSED PROFESSIONAL ENGINEER
8-15-22



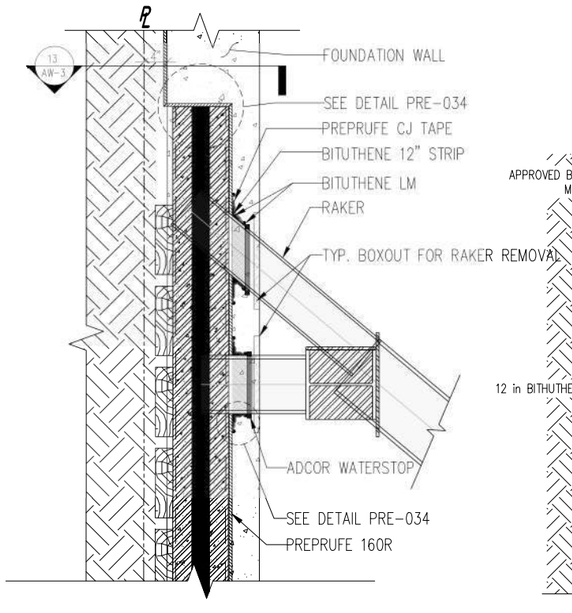
8 SECTION AT SOUTH WALL
SCALE: $\frac{3}{4}$"=1'-0"



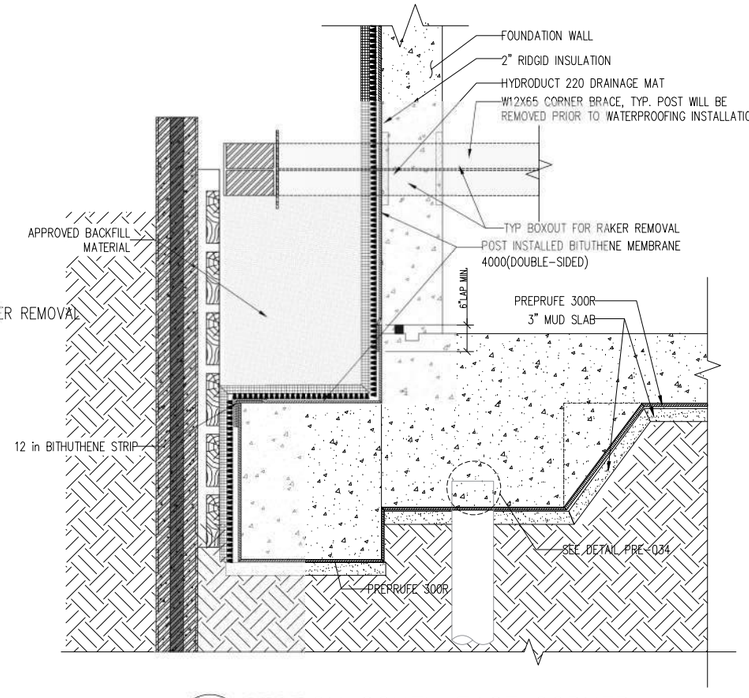
9 SECTION AT SOUTH SOE WALLS
SCALE: $\frac{3}{4}$"=1'-0"



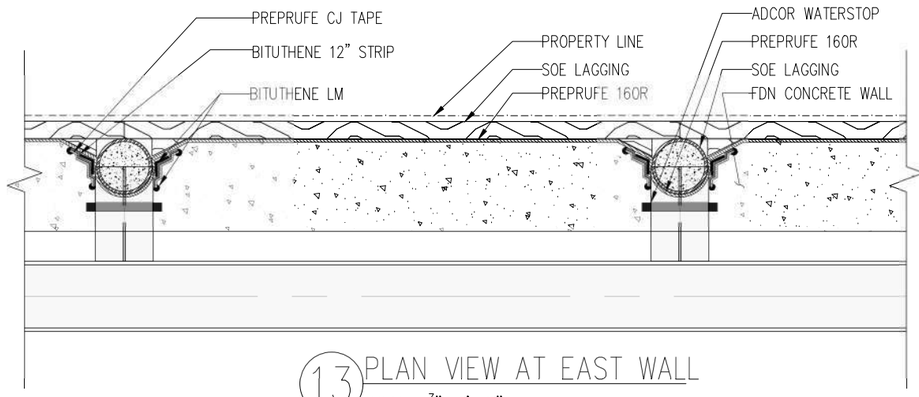
10 DETAIL AT SOUTH EAST CROSS BRACE
SCALE: $\frac{3}{4}$"=1'-0"



11 SECTION AT EAST WALL
SCALE: $\frac{3}{4}$"=1'-0"



12 SECTION SOUTH EAST CORNER
SCALE: $\frac{3}{4}$"=1'-0"



13 PLAN VIEW AT EAST WALL
SCALE: $\frac{3}{4}$"=1'-0"

STRUCTURETECH
500 SEVENTH AVE, 10TH FLOOR
NEW YORK, NY 10018

LOCATION

PROJECT
280 WEST 155TH STREET
FOUNDATION

TITLE
AS BUILT FOR
WATERPROOFING
SECTIONS AT SOE

REV.	DATE	STATUS DESCRIPTION

DATE: 05/19/2022
BY: A.M.
CHECKED BY: A.C.
SCALE: N.T.S
PROJECT NO. J0495
DRAWING NO. AW-03
PAGE 3 OF 3

SIGN AND SEAL
STATE OF NEW YORK
ALBERT T CAMARGO
105749
LICENSED PROFESSIONAL ENGINEER

5-15-22

APPENDIX E

EXCAVATION WORK PLAN

EXCAVATION WORK PLAN (EWP)

1 NOTIFICATION

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

Table 1: Notifications*

NYSDEC Section Chief	Cris-Sandra Maycock Telephone: (718) 482-4679 Email: cris-sandra.maycock@dec.ny.gov
NYSDEC Project Manager's Supervisor	Heidi Dudek Telephone: (518) 402-0193 Email: heidi.dudek@dec.ny.gov
NYSDEC Project Manager	Meghan Medwid Telephone: (518) 402-8610 Email: meghan.medwid@dec.ny.gov
NYSDEC Site Control	Kelly Lewandowski Telephone: (518) 402-0193 Email: kelly.lewandowski@dec.ny.gov
NYSDOH Project Manager	Arunesh Ghosh Telephone: (518) 486-1443 Email: arunesh.ghosh@health.ny.gov

Project Manager	Amanda Forsburg Telephone: (973) 560-4900 Email: aforsburg@langan.com
Qualified Environmental Professional	Christopher McMahon Telephone: (973) 560-4900 Email: cmcmahon@langan.com
Remedial Engineer	Satyajit Vaidya, P.E. Telephone: (973) 560-4900 Email: svaidya@langan.com
Owner	280 W 155th Street Owner, L.L.C. Telephone: (646) 834-9380 Email: pavit@sabharwalproperties.com

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated, any modifications of truck routes, and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP appended to this SMP;

- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with the required request to import form and all supporting documentation including, but not limited to, chemical testing results.

2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector [PID]) soil screening will be performed by an engineer, geologist, or scientist under the direct supervision of a PE or QEP during all remedial and development excavations into known or potentially contaminated material. Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Excavated soil/fill will be segregated based on previous environmental data and screening results into two classes - material that requires off-site disposal and material intended to be reused on-site. Soil/fill proposed for reuse must be sampled accordance with NYSDEC Program Policy DER-10: Technical Guide for Site Investigation and Remediation (DER-10) Table 5.4(e) to determine if it can be reused on-site (either as backfill or cover soil) and must be approved by the NYSDEC prior to reuse. Previously imported soil/fill may be reused without additional testing, provided it has not been comingled with soil/fill that has not been tested for reuse.

Further discussion of off-site disposal of materials and on-site reuse is provided in Sections 6 and 7 of this EWP.

3 SOIL STAGING METHODS

Stockpiles will be placed on and kept covered at all times with adequately anchored tarps or plastic sheeting. Stockpiles will be routinely inspected and damaged tarp covers or plastic sheeting will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

4 MATERIALS EXCAVATION AND LOAD-OUT

A field engineer, scientist, or geologist under the supervision of the QEP and/or RE will monitor ground-intrusive work and the excavation and load-out of excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional and/or contractor. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site. A site utility stakeout will be completed for all utilities prior to any ground intrusive activities at the site.

Loaded vehicles leaving the site will be lined (if applicable, per Section 5, below), tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete. Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The QEP or field staff under their supervision will be responsible for documenting that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck traffic would be routed on the most direct course using major thoroughfares where possible and flaggers would be used to protect pedestrians at site entrances and exits. Truck routes will take into account: (a) limiting transport through residential areas and past sensitive sites, (b) use of city mapped truck routes, (c) prohibiting off-site queuing of trucks entering the facility, to the extent possible, (d) limiting total distance to major highways, (e) promoting safety in access to highways, and (f) overall safety in transport, and (g) community input [where necessary].

Trucks will be prohibited from stopping and idling unnecessarily in the neighborhood outside the project site. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials. Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be minimized.

6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed off-site in a permitted facility in accordance with all local, State and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC project manager. Unregulated off-site management of materials from this site will not occur without formal NYSDEC project manager approval.

The following documentation will be obtained and reported by the QEP for each off-site disposal location used to fully demonstrate and document that the disposal of material derived from the site conforms to applicable laws:

1) A letter from the QEP or BCP Volunteer to the receiving facility describing the material to be disposed and requesting formal written acceptance of the material. This letter will state that material to be disposed is contaminated material generated

at an environmental remediation site in New York State. The letter will provide the project identity and the name and phone number of the QEP. The letter will include as an attachment a summary of chemical data for the material being transported (including site characterization data); and

2) A letter from each receiving facility stating it is in receipt of the correspondence (above) and is approved to accept the material.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, (e.g. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C&D debris recovery facility) Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include, but will not be limited to: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous fill and contaminated soils taken off-site will be handled consistent with 6 NYCRR Parts 360, 361, 362, 363, 364 and 365. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State C&D debris recovery facility (6 NYCRR Subpart 360-15 registered or permitted facility).

7 MATERIALS REUSE ON-SITE

The reuse of on-site materials must follow the procedures included in this EWP so that unacceptable material is not reused on-site. Grossly-contaminated soil, fill, or soil with petroleum staining or odor will not be reused on-site in any circumstance. Soil intended for reuse on-site will be sampled in accordance with DER-10 Table 5.4(e) and approved by the NYSDEC prior to reuse. Contaminated on-site material, including fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines. Material that does not meet the lower of 6 NYCRR Part 375-6.8(b) Commercial Restricted Use and Protection of Groundwater SCOs will not be acceptable for reuse on site.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

8 FLUIDS MANAGEMENT

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

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the Decision Document and SMP. The existing cover system is comprised of an 8- to 16-inch thick concrete slab beneath the building footprint, an 8-inch thick concrete slab at street level along the western portion of the Site, and1-foot of imported Item #4 Dense Graded Aggregate along the southern portion of the Site. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. Acceptable cover system elements include concrete, asphalt or a minimum of 1 foot of soil meeting the lower of the Protection of Groundwater SCOs or the Commercial Restricted Use SCOs overlying a visual demarcation layer. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and NYSDEC, as defined in 6 NYCRR Part 375, and will be in compliance with provisions in this SMP prior to receipt at the site. Imported soil for backfill must meet the Commercial RUSCOs or other acceptable fill material such as virgin, native stone from a quarry or RCA. Material from industrial Sites, spill Sites, other environmental remediation Sites, or other potentially contaminated Sites will not be imported to the Site. Solid waste will not be imported onto the Site.

A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Backfill material will consist of clean fill (as described in the following paragraph) or other acceptable fill material such as virgin stone from a quarry or recycled concrete aggregate (RCA). If RCA is imported to the Site, it will be from a NYSDEC-registered facility in compliance with 6 NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant facilities will not require chemical testing, unless required by the NYSDEC under the terms for operation of the facility. RCA imported to the Site must be derived from recognizable and uncontaminated concrete, with no more than 10% by weight passing through a No. 10 sieve. RCA is not acceptable for and will not be used as cover or drainage material or to fill areas beneath the groundwater table. Crushed virgin stone from a permitted mine or quarry may also be imported without chemical testing if the sieve analysis shows no more than 10% by weight passing through a No. 10 sieve.

Imported soil (i.e., clean fill) will meet the Commercial RUSCOs. Non-compliant soils will not be imported to the Site. Clean fill will be segregated at a source/facility that is free of environmental contaminants. Qualified environmental personnel will collect representative samples, if required, at a frequency consistent with NYSDEC DER-10 Table 5.4(e)10 – Recommended Number of Soil Samples for Soil Imported To or Exported From a Site. The samples will be analyzed for total compound list (TCL) volatile organic compounds (VOC)

(Environmental Protection Agency [USEPA] Method 8260), TCL semivolatile organic compounds (SVOC) (EPA Method 8270 and EPA Method 8270 SIM) if necessary to achieve NYSDEC-reporting limit goal for 1,4-dioxane), pesticides/polychlorinated biphenyls (PCB) (EPA Method 8082/8081), total analyte list (TAL) metals (EPA Method 6010), and per- and polyfluoroalkyl substances (PFAS) (Modified EPA Method 537) by a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory. Upon meeting these criteria, the certified-clean fill will be transported to the Site and segregated from impacted material, as necessary, on plastic sheeting until it is used as backfill.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

11 STORMWATER POLLUTION PREVENTION

Silt fencing or hay bales will be installed around the perimeter of the construction area, as required. Barriers and hay bale checks will be installed and inspected once a week and after every storm event; necessary repairs shall be made immediately. Results of inspections will be recorded in a logbook maintained at the site and available for inspection by the NYSDEC. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fence damaged due to weathering. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition. The NYSDEC project manager will be promptly notified of the discovery.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes [TAL metals, TCL volatiles and semi-volatiles (including 1,4-dioxane), TCL pesticides and PCBs, and PFAS], unless the site history and previous sampling results provide sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC project manager for approval prior to sampling. Any tanks will be closed as per NYSDEC regulations and guidance.

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

13 COMMUNITY AIR MONITORING PLAN

Community air monitoring will be conducted in compliance with the NYSDOH Generic CAMP outlined below and as provided in Appendix G of the SMP.

The CAMP will include real-time monitoring for VOCs and particulates at the upwind and downwind perimeter of each designated work area when ground-intrusive work is in progress. Upwind monitoring will be required to establish air contaminant background levels. Continuous monitoring will be required for all ground-intrusive work. Ground-intrusive work includes, but is not limited to, soil/fill excavation and handling and utility trenching. Periodic monitoring for VOCs may be required during non-intrusive work such as the collection of soil samples. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location and taking a reading prior to leaving a sample location.

CAMP monitoring of total VOC levels will be conducted using PIDs, and monitoring for particulates will be conducted using particulate sensors equipped with filters that can detect airborne particulates less than 10 microns in diameter (PM10). Monitoring for particulates and odors will be conducted during ground-intrusive work by a field engineer, scientist, or geologist under the supervision of the RE. The work zone is defined as the general area in which machinery is operating in support of remediation. A portable PID will be used to monitor the work zone and

for periodic monitoring of total VOC levels during work such as soil sampling. The Site perimeter will be visually monitored for fugitive dust emissions.

The following actions will be taken based on total VOC levels measured:

- If total VOC levels exceed 5 ppm above background for the 15-minute average at the perimeter, work will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the work zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work will resume provided that the total VOC level 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/ commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.
- If the total VOC level is above 25 ppm at the perimeter of the hot zone, work will be shut down.

The following actions will be taken based on dust levels measured or visual dust observations:

- If the downwind particulate level is 100 µg/m³ greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind PM10 levels do not exceed 150 µg/m³ above the background level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m³ above the background level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.

Sustained concentrations of VOCs or PM10 will be reported to the NYSDEC and NYSDOH Project Managers and included in the daily report. In addition, a map showing the location of the downwind and upwind CAMP stations will be included in the daily report.

14 ODOR CONTROL PLAN

Work practices to minimize odors and vapors will be used during intrusive activities. Odor and organic vapor controls may include the application of foam suppressants or tarps over the odorous material or VOC source areas. Foam suppressants may include biodegradable foams applied over the odorous material for short-term control of the odor and VOCs.

If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (a) direct load-out of soils to trucks for off-site disposal; (b) use of chemical odorants in spray or misting systems; and, (c) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved using a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

16 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

APPENDIX F

HEALTH AND SAFETY PLAN

LANGAN

HEALTH AND SAFETY PLAN

For

280 WEST 155TH STREET DEVELOPMENT
2926 Frederick Douglass Boulevard
New York, New York
Block 2040, Lot 48
NYSDEC BCP Site No. C231138

Prepared for

280 W 155th Street Owner, L.L.C.
c/o The Carlyle Group
1001 Pennsylvania Avenue NW
Washington, DC 20004

Prepared by:

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December 2022
Langan Project No. 100765102

LANGAN

TABLE OF CONTENTS

Page No.

1.0 INTRODUCTION 1

1.1 General 1
1.2 Site Location and Background 1
1.3 Summary of Work Tasks 2
1.3.1 Annual Site Inspection 2

2.0 IDENTIFICATION OF KEY PERSONNEL/HEALTH AND SAFETY PERSONNEL 2

2.1 Langan Project Manager 2
2.2 Langan Corporate Health and Safety Manager 2
2.3 Langan Site Health & Safety Officer 3
2.4 Langan Field Team Leader Responsibilities 3
2.5 Contractor Responsibilities 3

3.0 TASK/OPERATION SAFETY AND HEALTH RISK ANALYSES 4

3.1 Specific Task Safety Analysis 4
3.1.1 Annual Site Inspection 4
3.1.2 Construction Activity Observation 5
3.2 Radiation Hazards 5
3.3 Physical Hazards 5
3.3.1 Explosion 5
3.3.2 Heat Stress 5
3.3.3 Cold-Related Illness 7
3.3.4 Noise 8
3.3.5 Hand and Power Tools 8
3.3.6 Slips, Trips and Fall Hazards 8
3.3.7 Utilities (Electrocution and Fire Hazards) 8
3.3.7.1 Utility Clearance 8
3.3.7.2 Lockout-Tagout 8
3.3.8 Physical Hazard Considerations for Material Handling 9
3.3.9 Hearing Conservation 10
3.3.9 Open Water 10
3.4 Biological Hazards 11
3.4.1 Animals 11
3.4.2 Insects 11
3.4.3 Plants 11
3.4.4 Coronavirus 12
3.4.4.1 General Preventative Measures 12

3.4.4.2 Construction Trailers 12
3.4.4.3 Communication 12
3.4.4.4 Sick/Ill Workers 12
3.5 Job Safety Analysis 13

4.0 PERSONNEL TRAINING 13

4.1 Basic Training 13
4.2 Initial Site-Specific Training 13
4.3 Tailgate Safety Briefings 13

5.0 MEDICAL SURVEILLANCE 14

5.1 Mercury Monitoring 14

6.0 PERSONAL PROTECTIVE EQUIPMENT 14

6.1 Levels of Protection 14
6.2 Respirator Fit-Test 16
6.3 Respirator Cartridge Change-Out Schedule 16

7.0 AIR QUALITY MONITORING AND ACTIONS LEVELS 16

7.1 Monitoring During Site Operations 16
7.1.1 Volatile Organic Compounds 17
7.1.2 Metals 17
7.2 Monitoring Equipment Calibration and Maintenance 18
7.3 Determination of Background Levels 18

8.0 COMMUNITY AIR MONITORING PROGRAM 18

8.1 Vapor Emission Response Plan 19
8.2 Major Vapor Emission 20
8.3 Major Vapor Emission Response Plan 20
8.4 Dust Suppression Techniques 20

9.0 Work zones and decontamination 21

9.1 Site Control 21
9.2 Contamination Zone 21
9.2.1 Personnel Decontamination Station 21
9.2.2 Minimization of Contact with Contaminants 21
9.2.3 Personnel Decontamination Sequence 22
9.2.4 Emergency Decontamination 22
9.2.5 Hand-Held Equipment Decontamination 22
9.2.6 Heavy Equipment Decontamination 23
9.3 Support Zone 23
9.4 Communications 23

9.5 The Buddy System 24

10.0 Nearest Medical Assistance **24**

11.0 Standing Orders/Safe Work Practices **24**

12.0 Site Security **24**

13.0 Underground Utilities **24**

14.0 Site Safety Inspection **25**

15.0 Hand and Power Tools **25**

16.0 EMERGENCY RESPONSE **25**

16.1 General 25
16.2 Responsibilities 26
16.2.1 Health and Safety Officer (HSO) 26
16.2.2 Emergency Coordinator 26
16.2.3 Site Personnel 27
16.3 Communications 27
16.4 Local Emergency Support Units 27
16.5 Pre-Emergency Planning 27
16.6 Non-Emergency Medical Treatment 28
16.7 Emergency Medical Treatment 28
16.8 Personnel with current first aid and CPR certification will be identified. 28
16.9 Emergency Site Evacuation Routes and Procedures 28
16.9.1 Designated Assembly Locations 29
16.9.2 Accounting for Personnel 29
16.10 Fire Prevention and Protection 30
16.10.1 Fire Prevention 30
16.11 Significant Vapor Release 30
16.12 Overt Chemical Exposure 30
16.13 Decontamination during Medical Emergencies 31
16.14 Adverse Weather Conditions 31
16.15 Spill Control and Response 32
16.16 Emergency Equipment 33
16.17 Restoration and Salvage 33
16.18 Documentation 33

17.0 SPECIAL CONDITIONS **33**

17.1 Scope 34
17.2 Responsibilities 34
17.3 Procedures 34
17.3.1 Ladders 34

17.3.1.1 Ladder Use 34
17.3.1.2 Portable Ladders 35
17.3.1.3 Step Stools 35
17.3.1.4 Extension Ladders 35
17.3.1.5 Inspection 35
17.3.2 First Aid/Cardiopulmonary Resuscitation (CPR) 35
17.3.2.1 Emergency Procedures 36
17.3.2.2 First Aid Supplies 36
17.3.3 Hydrogen Sulfide 36
17.3.3.1 Characteristics 37
17.3.3.2 Health Effects 37
17.3.3.3 Protective Clothing and Equipment 37
17.3.3.4 Emergency and First Aid Procedures 38
19.3.4 Fire Protection/Extinguishers 39
17.3.5 Overhead lines 39
17.3.5.1 Vehicle and Equipment Clearance 40
17.3.6 Trade Secret 41
17.3.7 Bloodborne Pathogens 41
17.3.7.1 Training 41
17.3.7.2 Recordkeeping 43

18.0 RECORDKEEPING 44

18.1 Field Change Authorization Request 44
18.2 Medical and Training Records 44
18.3 Onsite Log 44
18.4 Daily Safety Meetings ("Tailgate Talks") 44
18.5 Exposure Records 44
18.6 Hazard Communication Program/MSDS-SDS 45
18.7 Documentation 45
18.7.1 Accident and Injury Report Forms 45
18.7.1.1 Accident/Incident Report 45
18.7.1.2 First Aid Treatment Record 45
18.7.1.3 OSHA Form 300 46

19.0 CONFINED SPACE ENTRY 46

20.0 HASP ACKNOWLEDGEMENT FORM 46

LIST OF TABLES

Table 1 Task Hazard Analysis

Table 2 Contaminant Hazards of Concern

Table 3 Summary of Monitoring Equipment

Table 4 Instrumentation Action Levels

Table 5 Emergency Notification List*****

Table 6 Suggested Frequency of Physiological Monitoring For Fit and Acclimated Workers

Table 7 Heat Index

LIST OF FIGURES

Figure 1 Site Location Map

Figure 2 Route to Hospital (map with directions)*****

LIST OF APPENDICES

Attachment A Standing Orders*

Attachment B Decontamination Procedures

Attachment C Employee Exposure/Injury Incident Report

Attachment D Calibration Log

Attachment E Material Data Safety Sheets / Safety Data Sheets*

Attachment F Jobsite Safety Inspection Checklist

Attachment G Job Safety Analysis Forms

Attachment H Tailgate Safety Meeting Log

***** Items to be posted prominently on site, or made readily available to personnel.

1.0 INTRODUCTION

1.1 General

This HEALTH AND SAFETY PLAN (HASP) was developed to address disturbance of known and reasonably anticipated subsurface contaminants and comply with Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1910.120(b) (4), *Hazardous Waste Operations and Emergency Response* during anticipated site work located at 2926 Frederick Douglass Boulevard, in the borough of Manhattan, New York (Tax Map Block 2040, Lot 48) ("the site"). This HASP provides the minimum requirements for implementing site operations during environmental investigation activities. All contractors performing work on this site shall implement their own Health and Safety Plans that, at a minimum, adhere to this HASP. The contractor is solely responsible for their own health and safety and that of their subcontractors. Langan personnel will implement this HASP while on-site.

The management of the day-to-day site activities and implementation of this HASP in the field is the responsibility of the site Langan Field Team Leader (FTL). Assistance in the implementation of this HASP can also be obtained from the site Langan Health and Safety Officer (HSO) and the Langan Health and Safety Manager (HSM). Contractors operating on the Site shall designate their own FTL, HSO and HSM. The content of this HASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the work plan.

1.2 Site Location and Background

The Site is located in the Harlem neighborhood of Manhattan, New York and is identified as Block 2040 Lot 48. The Site is an approximately 39,950-square-foot parcel currently undergoing development as a three-story commercial self-storage building. The building is anticipated to be occupied in the first quarter of 2023.The Site is bound to the north by West 155th Street and the elevated 155th Street Viaduct associated with the Macomb's Dam Bridge followed by Holcombe Rucker Park; an asphalt-paved parking lot to the east; two single-story commercial/industrial buildings including a Toyota Automotive Repair facility and Ferguson Plumbing Supply store, two four-story mixed-use residential/commercial buildings, and two four- to six-story residential buildings to the south; and by Frederick Douglass Boulevard followed by a two-story mixed-use residential/commercial building to the west. A site location map is included as Figure 1.

1.3 Summary of Work Tasks

1.3.1 Annual Site Inspection

On an annual basis, Langan will conduct a site inspection of the composite cover system and any other items specified, in accordance with specifications outlined in the Site Management Plan (SMP).

2.0 IDENTIFICATION OF KEY PERSONNEL/HEALTH AND SAFETY PERSONNEL

The following briefly describes the health and safety (H&S) designations and general responsibilities that may be employed for this site. The titles have been established to accommodate the project needs and requirements and ensure the safe conduct of site activities. The H&S personnel requirements for a given work location are based upon the proposed site activities.

2.1 Langan Project Manager

The Langan Environmental PM is Amanda Forsburg, her responsibilities include:

- Ensuring that this HASP is developed, current, and approved prior to on-site activities.
- Ensuring that all the tasks in the project are performed in a manner consistent with Langan's comprehensive *Health and Safety Program for Hazardous Waste Operations* and this HASP.

2.2 Langan Corporate Health and Safety Manager

The Langan Corporate Health and Safety Manager (HSM) is Tony Moffa. His responsibilities include:

- Updating the *Health and Safety Program for Hazardous Waste Operations*.
- Assisting the site Health and Safety Officer (HSO) with development of the HASP, updating HASP as dictated by changing conditions, jobsite inspection results, etc. and approving changes to this HASP.
- Assisting the HSO in the implementation of this HASP and conducting Jobsite Safety Inspections and assisting with communication of results and correction of shortcomings found.
- Maintaining records on personnel (medical evaluation results, training and certifications, accident investigation results, etc.).

2.3 Langan Site Health & Safety Officer

The Langan site HSO is Allyson Kritzer. Her responsibilities include:

- Participating in the development and implementation of this HASP.
- When on-site, assisting the Langan Field Team Leader in conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- Ensuring that proper PPE is available, worn by employees, and properly stored and maintained.
- Controlling entry into and exit from the site contaminated areas or zones.
- Monitoring employees for signs of stress, such as heat stress, fatigue, and cold exposure.
- Monitoring site hazards and conditions.
- Knowing (and ensuring that all site personnel also know) emergency procedures, evacuation routes, and the telephone numbers of the ambulance, local hospital, poison control center, fire department, and police department.
- Resolving conflicts that may arise concerning safety requirements and working conditions.
- Reporting all incidents, injuries and near misses to the Langan Incident/Injury Hotline immediately and the client representative.

2.4 Langan Field Team Leader Responsibilities

The Langan Field Team Leader (FTL) is to be determined prior to the start of the start of field activities. The Field Team Leader's responsibilities include:

- The management of the day-to-day site activities and implementation of this HASP in the field.
- Participating in and/or conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- When a Community Air Monitoring Operating Program (CAMP) is part of the scope, the FTL will set up and maintaining community air monitoring activities and instructing the responsible contractor to implement organic vapor or dust mitigation when necessary.
- Overseeing the implementation of activities specified in the work plan.

2.5 Contractor Responsibilities

The contractor shall develop and implement their own HASP for their employees, lower-tier subcontractors, and consultants. The contractor is responsible for their own health and safety and that of their subcontractors. Contractors operating on the site shall designate their own FTL,

HSO and HSM. The contractor's HASP will be at least as stringent as this Langan HASP. The contractor must be familiar with and abide by the requirements outlined in their own HASP. A contractor may elect to adopt Langan's HASP as its own provided that it has given written notification to Langan, but where Langan's HASP excludes provisions pertinent to the contractor's work (i.e., confined space entry); the contractor must provide written addendums to this HASP. Additionally, the contractor must:

- Ensure their employees are trained in the use of all appropriate personal protection equipment (PPE) for the tasks involved;
- Notify Langan of any hazardous material brought onto the job site or site related area, the hazards associated with the material, and must provide a material safety data sheet (MSDS) or safety data sheet (SDS) for the material;
- Have knowledge of, understand, and abide by all current federal, state, and local health and safety regulations pertinent to the work;
- Ensure their employees handling hazardous materials, if identified at the Site, have received current training in the appropriate levels of 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response* (HAZWOPER) if hazardous waste is identified at the Site;
- Ensure their employees handling hazardous materials, if identified at the Site, have been fit-tested within the year on the type respirator they will wear; and
- Ensure all air monitoring is in place pertaining to the health and safety of their employees as required by OSHA 1910.120; and
- All contractors must adherer to all federal, state, and local regulatory requirements.

3.0 TASK/OPERATION SAFETY AND HEALTH RISK ANALYSES

A Task-Hazard Analysis (Table 1) was completed for general construction hazards that may be encountered at the Site. The potential contaminants that might be encountered during the field activities and the exposure limits are listed in Table 2 complete inventory of MSDS/SDS for chemical products used on site is included as Attachment E.

3.1 Specific Task Safety Analysis

3.1.1 Annual Site Inspection

Langan will conduct annual site inspections in accordance with the SMP. At a minimum, Langan will don standard PPE.

3.1.2 Construction Activity Observation

Langan will don standard Langan PPE during inspections and future observations of repairs to the Engineering Controls installed as the site at part of the remedy. All future repair work to the engineering controls will be done exclusively by the contractor following their own health and safety specifications outlined in their HASPs. Other activities assigned to Langan as part of work activities are limited to inspection and observations as specified in the SMP or future work plans. Langan personnel are not to operate or assist in the operation of equipment used in construction activities unless defined as part of an inspection or observation in the work plan.

3.2 Radiation Hazards

No radiation hazards are known or expected at the site.

3.3 Physical Hazards

Physical hazards, which may be encountered during site operations for this project, are detailed in Table 1.

3.3.1 Explosion

No explosion hazards are expected for the scope of work at this site.

3.3.2 Heat Stress

The use of Level C protective equipment, or greater, may create heat stress. Monitoring of personnel wearing personal protective clothing should commence when the ambient temperature is 72°F or above. Table 6 presents the suggested frequency for such monitoring. Monitoring frequency should increase as ambient temperature increases or as slow recovery rates are observed. Refer to the Table 7 to assist in assessing when the risk for heat related illness is likely. To use this table, the ambient temperature and relative humidity must be obtained (a regional weather report should suffice). Heat stress monitoring should be performed by the HSO or the FTL, who shall be able to recognize symptoms related to heat stress.

To monitor the workers, be familiar with the following heat-related disorders and their symptoms:

- **Heat Cramps:** Painful spasm of arm, leg or abdominal muscles, during or after work
- **Heat Exhaustion:** Headache, nausea, dizziness; cool, clammy, moist skin; heavy sweating; weak, fast pulse; shallow respiration, normal temperature

- **Heat Stroke**: Headache, nausea, weakness, hot dry skin, fever, rapid strong pulse, rapid deep respirations, loss of consciousness, convulsions, coma. *This is a life threatening condition***.**

Do not permit a worker to wear a semi-permeable or impermeable garment when they are showing signs or symptoms of heat-related illness.

To monitor the worker, measure:

- **Heart rate:** Count the radial pulse during a 30-second period as early as possible in the rest period. If the heart rate exceeds 100 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same. If the heart rate still exceeds 100 beats per minute at the next rest period, shorten the following work cycle by one-third. A worker cannot return to work after a rest period until their heart rate is below 100 beats per minute.
- **Oral temperature:** Use a clinical thermometer (3 minutes under the tongue) or similar device to measure the oral temperature at the end of the work period (before drinking). If oral temperature exceeds 99.6^{O}F (37.6^{O}C), shorten the next work cycle by one-third without changing the rest period. A worker cannot return to work after a rest period until their oral temperature is below 99.6^{O}F. If oral temperature still exceeds 99.6^{O}F (37.6^{O}C) at the beginning of the next rest period, shorten the following cycle by one-third. Do not permit a worker to wear a semi-permeable or impermeable garment when oral temperature exceeds 100.6^{O}F (38.1^{O}C).

Prevention of Heat Stress - Proper training and preventative measures will aid in averting loss of worker productivity and serious illness. Heat stress prevention is particularly important because once a person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat related illness. To avoid heat stress the following steps should be taken:

- Adjust work schedules.
- Mandate work slowdowns as needed.
- Perform work during cooler hours of the day if possible or at night if adequate lighting can be provided.
- Provide shelter (air-conditioned, if possible) or shaded areas to protect personnel during rest periods.
- Maintain worker's body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must approximately equal the amount of water lost in sweat, id., eight fluid ounces (0.23 liters) of water must be ingested for approximately every eight ounces (0.23 kg) of weight lost. The normal thirst mechanism is not sensitive enough to ensure that enough water will be drunk to replace

lost sweat. When heavy sweating occurs, encourage the worker to drink more. The following strategies may be useful:

- Maintain water temperature 50° to 60°F (10° to 16.6^{O}C).
- Provide small disposal cups that hold about four ounces (0.1 liter).
- Have workers drink 16 ounces (0.5 liters) of fluid (preferably water or dilute drinks) before beginning work.
- Urge workers to drink a cup or two every 15 to 20 minutes, or at each monitoring break. A total of 1 to 1.6 gallons (4 to 6 liters) of fluid per day are recommended, but more may be necessary to maintain body weight.
- Train workers to recognize the symptoms of heat related illness.

3.3.3 Cold-Related Illness

If work on this project begins in the winter months, thermal injury due to cold exposure can become a problem for field personnel. Systemic cold exposure is referred to as hypothermia. Local cold exposure is generally called frostbite.

- **Hypothermia -** Hypothermia is defined as a decrease in the patient core temperature below 96°F. The body temperature is normally maintained by a combination of central (brain and spinal cord) and peripheral (skin and muscle) activity. Interference with any of these mechanisms can result in hypothermia, even in the absence of what normally is considered a "cold" ambient temperature. Symptoms of hypothermia include: shivering, apathy, listlessness, sleepiness, and unconsciousness.
- **Frostbite -** Frostbite is both a general and medical term given to areas of local cold injury. Unlike systemic hypothermia, frostbite rarely occurs unless the ambient temperatures are less than freezing and usually less than 20°F. Symptoms of frostbite are: a sudden blanching or whitening of the skin; the skin has a waxy or white appearance and is firm to the touch; tissues are cold, pale, and solid.

Prevention of Cold-Related Illness - To prevent cold-related illness:

- Educate workers to recognize the symptoms of frostbite and hypothermia
- Identify and limit known risk factors:
- Assure the availability of enclosed, heated environment on or adjacent to the site.
- Assure the availability of dry changes of clothing.
- Assure the availability of warm drinks.
- Start (oral) temperature recording at the job site:
- At the FSO or Field Team Leader's discretion when suspicion is based on changes in a worker's performance or mental status.
- At a worker's request.

- As a screening measure, two times per shift, under unusually hazardous conditions (e.g., wind-chill less than 20°F, or wind-chill less than 30°F with precipitation).
- As a screening measure whenever anyone worker on the site develops hypothermia.

Any person developing moderate hypothermia (a core temperature of 92°F) cannot return to work for 48 hours.

3.3.4 Noise

Work activities during the proposed activities may be conducted at locations with high noise levels from the operation of equipment. Hearing protection will be used as necessary.

3.3.5 Hand and Power Tools

The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut or struck by the tool, fire, and electrocution. All hand and power tools should be inspected for health and safety hazards prior to use. If deemed unserviceable/un-operable, notify supervisor and tag equipment out of service. Ground Fault Circuit Interrupters (GFCIs) are required for all power tools requiring direct electrical service.

3.3.6 Slips, Trips and Fall Hazards

Care should be exercised when walking at the site, especially when carrying equipment. The presence of surface debris, uneven surfaces, pits, facility equipment, and soil piles contribute to tripping hazards and fall hazards. To the extent possible, all hazards should be identified and marked on the site, with hazards communicated to all workers in the area.

3.3.7 Utilities (Electrocution and Fire Hazards)

3.3.7.1 Utility Clearance

The possibility of encountering underground utilities poses fire, explosion, and electrocution hazards. All excavation work will be preceded by review of available utility drawings and by notification of the subsurface work to the N.Y. One –Call--Center.

3.3.7.2 Lockout-Tagout

The potential adverse effects of electrical hazards include burns and electrocution, which could result in death. Therefore, there is a procedure that establishes the requirements for the lockout/tagout (LOTO) of energy isolating devices in accordance with the OSHA electrical lockout and tagging requirements as specified in 29 CFR 1926.417. This procedure will be used to ensure

that all machines and equipment are isolated from potentially hazardous energy. If possible, equipment that could cause injury due to unexpected energizing, start-up, or release of stored energy will be locked/tagged, before field personnel perform work activities.

Depending upon the specific work task involved, Langan's SSC or FTL will serve as the authorized lockout/tagout coordinator, implement the lockout/tagout procedure and will be responsible to locate, lock and tag valves, switches, etc.

SPECIAL NOTE: Project personnel will assume that all electrical equipment at surface, subsurface and overhead locations is energized, until equipment has been designated and confirmed as de-energized by a utility company representative. Langan will notify the designated utility representative prior to working adjacent to this equipment and will verify that the equipment is energized or de-energized in the vicinity of the work location.

No project work shall be performed by Langan personnel or subcontractors on or near energized electrical lines or equipment unless hazard assessments are completed in writing, reviewed by Langan's SSHO, and clearly communicated to the field personnel.

The FTL shall conduct a survey to locate and identify all energy isolating devices. They shall be certain which switches, valves or other isolating devices apply to the equipment. The lockout/tagout procedure involves, but is not limited to, electricity, motors, steam, natural gas, compressed air, hydraulic systems, digesters, sewers, etc.

3.3.8 Physical Hazard Considerations for Material Handling

There are moderate to severe risks associated with moving heavy objects at the Site. The following physical hazards should be considered when handling materials at the Site:

- Heavy objects will be lifted and moved by mechanical devices rather than manual effort whenever possible.
- The mechanical devices will be appropriate for the lifting of moving task and will be operated only by trained and authorized personnel.
- Objects that require special handling or rigging will only be moved under the guidance of a person who has been specifically trained to move such objects.
- Lifting devices will be inspected, certified, and labeled to confirm their weight capacities. Defective equipment will be taken out of service immediately and repaired or destroyed.
- The wheels of any trucks being loaded or unloaded will be chocked to prevent movement. Outriggers will be fully extended on a flat, firm surface during operation.
- Personnel will not pass under a raised load, nor will a suspended load be left unattended.

- Personnel will not be carried on lifting equipment, unless it is specifically designed to carry passengers.
- All reciprocating, rotating, or other moving parts will be guarded at all times.
- Accessible fire extinguishers, currently (monthly) inspected, will be available in all mechanical lifting devices.
- Verify all loads/materials are secure before transportation.

Material handling tasks that are unusual or require specific guidance will need a written addendum to this HASP. The addendum must identify the lifting protocols before the tasks are performed. Upon approval, the plan must be reviewed with all affected employees and documented. Any deviation from a written plan will require approval by the Langan HSM.

3.3.9 Hearing Conservation

Under the construction industry standard, the maximum permissible occupational noise exposure is 90 dbA (8-hour TWA), and noise levels in excess of 90 dbA must be reduced through feasible administrative and engineering controls. (20 CFR 1926.52). Hearing protection is required when working within 15 feet of vacuum extraction equipment and drill rigs.

3.3.10 Open Water

Employees working over or near water, where the danger of drowning exists, shall be provided with U.S. Coast Guard-approved life jackets or buoyant work vests. Prior to and after each use, the buoyant work vests or life preservers shall be inspected for defects which would alter their strength or buoyancy. Defective units shall not be used.

And should a worker fall into the water, OSHA requires (29 CFR 1926.106(c)) that ring buoys with at least 90 feet of line shall be provided and readily available for emergency rescue operations. The distance between ring buoys shall not exceed 200 feet. Another remedial action required by OSHA (29 CFR 1926.106(d)) is the use of lifesaving skiffs.

OSHA requires that at least one lifesaving skiff shall be immediately available at locations where employees are working over or adjacent to water and must include the following provisions.

- The skiff must be in the water or capable of being quickly launched by one person.
- At least one person must be present and specifically designated to respond to water emergencies and operate the skiff at all times when there are employees above water.
- When the operator is on break another operator must be designated to provide requisite coverage when there are employees above water.

- The designated operator must either have the skiff staffed at all times or have someone remain in the immediate area such that the operator can quickly reach the skiff and perform rescue services.
- The skiff operator maybe assigned other tasks provided the tasks do not interfere with the operator's ability to quickly reach the skiff.
- A communication system, such as a walkie-talkie, must be used to inform the skiff operator of an emergency and to inform the skiff operator where the skiff is needed.
- The skiff must be equipped with both a motor and oars.

With regard to the number of skiffs required and the appropriate maximum response time, the following factors must be evaluated:

- The number of work locations where there is a danger of falling into water;
- The distance to each of those locations;
- Water temperature and currents;
- Other hazards such as, but not limited to, rapids, dams, and water intakes;

Other regulations that present S&H practices and PPE for work on or near water include: 29 CFR 1910, Subpart T (401 – 440)

3.4 Biological Hazards

3.4.1 Animals

There is a possibility of encountering wildlife including reptiles, rodents and other small and medium size mammals. The Langan personnel is to avoid interacting with any wildlife.

3.4.2 Insects

Ticks and other biting or stinging insects may to be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and insecticide to prevent bites and stings. After field work, Langan personnel should perform a complete visual inspection of their clothing to insure they are not inadvertently harboring ticks. If they do observe a tick bite, they are to contact the HSM or HSO and report the event.

3.4.3 Plants

Poisonous plants may to be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and applying preventative poison Ivy/Sumac lotion to prevent or limit effects of exposure. If after field work, Langan employees do observe a reaction to poisonous plant exposure, they are to contact the HSM or HSO and report the event.

3.4.4 Coronavirus

3.4.4.1 General Preventative Measures

Field personnel must follow general proper hygiene measures while in the field including:

- Avoid touching eyes, nose and mouth.
- Cover cough or sneeze with tissue, and throw in trash.
- Wash hands often with soap and water for 20 seconds after going to bathroom, before eating, after blowing nose, coughing or sneezing.
- Use hand sanitizer with at least 60% alcohol if soap and water are not available.
- Avoid physical contact with other people (e.g., no handshakes).
- Maintain a safe distance of at least 6 feet from other people (social distancing).

3.4.4.2 Construction Trailers

Employees should avoid use of shared construction trailers or where employees cannot maintain a safe distance (minimum 6 feet) from other workers. If trailer use is needed, areas such as desks, phones, chairs and other common areas, should be cleaned and disinfected before and after use. Protocols should be developed to minimize trailer use to essential personal, restrict use from any workers who are ill or showing symptoms of being ill, and ensure a safe distance of 6 feet can be established between workers.

3.4.4.3 Communication

Include Coronavirus topics and prevention topics in daily tailgate meetings to ensure Coronavirus awareness is communicated daily. Discussions can focus on general topics including: social distancing, prevention measures for field personnel, signs and symptoms and recent news on the Coronavirus. Site-specific topics should include minimizing face-to-face contact, disinfecting/sterilizing field equipment, use of PPE to reduce exposure, site security and other potential exposure issues/concerns.

3.4.4.4 Sick/Ill Workers

No Langan employee is permitted to be onsite when ill and/or showing potential symptoms of the Coronavirus. Symptoms of the Coronavirus may appear 2-14 days after exposure and can range from mild to severe. The most common symptoms include: fever, fatigue, dry cough and shortness of breath. If an employee or subcontractor is observed being ill or exhibiting symptoms of Coronavirus, employees must immediately utilize their Stop Work Authority and contact their project manager to address the situation. If an employee observes another worker onsite exhibiting symptoms of Coronavirus, immediately utilize Stop Work Authority and notify their

project manager and site construction manager or safety officer. Work should resume when the safety and health of Langan and subcontractors is adequately addressed.

3.5 Job Safety Analysis

A Job Safety Analysis (JSA) is a process to identify existing and potential hazards associated with each job or task so these hazards can be eliminated, controlled or minimized. A JSA will be performed at the beginning of each work day, and additionally whenever an employee begins a new task or moves to a new location. All JSAs must be developed and reviewed by all parties involved. A blank JSA form and documentation of completed JSAs are in Attachment G.

4.0 PERSONNEL TRAINING

4.1 Basic Training

Completion of an initial 40-hour HAZWOPER training program as detailed in OSHA's 29 CFR 1910.120(e) is required for all employees working on a site engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances, health hazards, or safety hazards as defined by 29 CFR 1910.120(a). Annual 8-hour refresher training is also required to maintain competencies to ensure a safe work environment. In addition to these training requirements, all employees must complete the OSHA 10 hour Construction Safety and Health training and supervisory personnel must also receive eight additional hours of specialized management training. Training records are maintained by the HSM.

4.2 Initial Site-Specific Training

Training will be provided to specifically address the activities, procedures, monitoring, and equipment for site operations at the beginning of each field mobilization and the beginning of each discrete phase of work. The training will include the site and facility layout, hazards, and emergency services at the site, and will detail all the provisions contained within this HASP. For a HAZWOPER operation, training on the site must be for a minimum of 3 days. Specific issues that will be addressed include the hazards described in Section 3.0.

4.3 Tailgate Safety Briefings

Before starting work each day or as needed, the Langan HSO will conduct a brief tailgate safety meeting to assist site personnel in conducting their activities safely. Tailgate meetings will be documented in Attachment H. Briefings will include the following:

- Work plan for the day;
- Review of safety information relevant to planned tasks and environmental conditions;

- New activities/task being conducted;
- Results of Jobsite Safety Inspection Checklist;
- Changes in work practices;
- Safe work practices; and
- Discussion and remedies for noted or observed deficiencies.

5.0 MEDICAL SURVEILLANCE

All personnel who will be performing field work involving potential exposure to toxic and hazardous substances (defined by 29 CFR 1910.120(a)) will be required to have passed an initial baseline medical examination, with follow-up medical exams thereafter, consistent with 29 CFR 1910.120(f). Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine.

Additionally, personnel who may be required to perform work while wearing a respirator must receive medical clearance as required under CFR 1910.134(e), *Respiratory Protection*. Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine. Results of medical evaluations are maintained by the HSM.

5.1 Mercury Monitoring

Langan includes medical monitoring for mercury during the initial baseline and annual physical.

6.0 PERSONAL PROTECTIVE EQUIPMENT

6.1 Levels of Protection

Langan will provide PPE to Langan employees to protect them from the specific hazards they are likely to encounter on-site. Direct hired contractors will provide their employees with equivalent PPE to protect them from the specific hazards likely to be encountered on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected hazards; (2) potential exposure routes; and, (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards.

Based on anticipated site conditions and the proposed work activities to be performed at the site, Level D protection will be used. The upgrading/downgrading of the level of protection will be based on continuous air monitoring results as described in Section 6.0 (when applicable). The decision to modify standard PPE will be made by the site HSO or FTL after conferring with the PM. The levels of protection are described below.

Level D Protection (as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes
- Coveralls (Tyvek® or equivalent)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection
- Reflective safety vest

Level D Protection (Modified, as needed)

- Safety glasses with sideshields or chemical splash goggles
- Safety boots/shoes (toe-protected)
- Disposable chemical-resistant boot covers
- Coveralls (polycoated Tyvek or equivalent to be worn when contact with wet contaminated soil, groundwater, or non-aqueous phase liquids is anticipated)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection (as needed)
- Personal floatation device (for work within 5 ft of the water)
- Reflective traffic vest

Level C Protection (as needed)

- Full or Half face, air-purifying respirator, with NIOSH approved HEPA filter
- Inner (latex) and outer (nitrile) chemical-resistant gloves
- Safety glasses with side shields or chemical splash goggles
- Chemical-resistant safety boots/shoes
- Hard hat
- Long sleeve work shirt and work pants
- Coveralls (Tyvek® or equivalent)
- Hearing protection (as needed)
- Reflective safety vest

The action levels used in determining the necessary levels of respiratory protection and upgrading to Level C are summarized in Table 4. The written Respiratory Protection Program is maintained by the HSM and is available if needed. The monitoring procedures and equipment are outlined in Section 6.0 (when applicable).

6.2 Respirator Fit-Test

All Langan employees who may be exposed to hazardous substances at the work site are in possession of a full or half face-piece, air-purifying respirator and have been successfully fit-tested within the past year. Fit-test records are maintained by the HSM.

6.3 Respirator Cartridge Change-Out Schedule

Respiratory protection is required to be worn when certain action levels (table 2) are reached. A respirator cartridge change-out schedule has been developed in order to comply with 29 CFR 1910.134. The respirator cartridge change-out schedule for this project is as follows:

- Cartridges shall be removed and disposed of at the end of each shift, when cartridges become wet or wearer experiences breakthrough, whichever occurs first.
- If the humidity exceeds 85%, then cartridges shall be removed and disposed of after 4 hours of use.

Respirators shall not be stored at the end of the shift with contaminated cartridges left on. Cartridges shall not be worn on the second day, no matter how short the time period was the previous day they were used.

7.0 AIR QUALITY MONITORING AND ACTIONS LEVELS

7.1 Monitoring During Site Operations

Atmospheric air monitoring results may be collected and used to provide data to determine when exclusion zones need to be established and when certain levels of personal protective equipment are required. For all instruments there are Site-specific action level criteria which are used in making field health and safety determinations. Other data, such as the visible presence of contamination or the steady state nature of air contaminant concentration, are also used in making field health and safety decisions. Therefore, the HSO may establish an exclusion zone or require a person to wear a respirator even though atmospheric air contaminant concentrations are below established HASP action levels.

During site work involving disturbance of petroleum-impacted or fill material, real time air monitoring may be conducted for volatile organic compounds (VOCs). A photoionization detector (PID) and/or flame ionization detector (FID) will be used to monitor concentrations of VOCs at personnel breathing-zone height. Air monitoring will be the responsibility of the HSO or designee. Air monitoring may be conducted during intrusive activities associated with the completion of excavation, debris removal, and soil grading. All manufacturers' instructions for instrumentation and calibration will be available onsite.

Subcontractors' air monitoring plans must be equal or more stringent as the Langan plan.

An air monitoring calibration log is provided in Attachment D of this HASP.

7.1.1 Volatile Organic Compounds

Monitoring with a PID, such as a MiniRAE 2000 (10.6v) or equivalent may occur during intrusive work in the AOCs. Colormetric Indicator Tubes for benzene may be used as backup for the PID, if measurements remain above background monitor every 2 hours. The HSO will monitor the employee breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (odors, visible gases, etc.) since the last measurement. If VOC levels are observed above 5 ppm for longer than 5 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for monitored gases are provided in Table 4.

7.1.2 Metals

Based upon the site historical fill, there is a potential for the soils to contain PAHs and metals. During invasive procedures which have the potential for creating airborne dust, such as excavation of dry soils, a real time airborne dust monitor such as a Mini-Ram may be used to monitor for air particulates. The HSO will monitor the employee breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (appearance of visible dust) since the last measurement. If dust levels are observed to be greater than 0.100 mg/m^3 or visible dust is observed for longer than 15 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for dust monitoring are provided in Table 4.

7.2 Monitoring Equipment Calibration and Maintenance

Instrument calibration shall be documented and included in a dedicated safety and health logbook or on separate calibration pages of the field book. All instruments shall be calibrated before and after each shift. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument response.

All instruments shall be operated in accordance with the manufacturers' specifications. Manufacturers' literature, including an operations manual for each piece of monitoring equipment will be maintained on site by the HSO for reference.

7.3 Determination of Background Levels

Background (BKD) levels for VOCs and dust will be established prior to intrusive activities within the AOC at an upwind location. A notation of BKD levels will be referenced in the daily monitoring log. BKD levels are a function of prevailing conditions. BKD levels will be taken in an appropriate upwind location as determined by the HSO.

Table 4 lists the instrument action levels.

8.0 COMMUNITY AIR MONITORING PROGRAM

Monitoring for dust and odors will be conducted during all ground intrusive activities by the FTL. Continuous monitoring on the upwind and downind perimeter of the work zones for odor, VOCs, and dust will be required during all ground intrusive activities such as soil excavation and handling activities. The work zone is defined as the general area in which machinery is operating in support of remediation activities. A portable PID will be used to monitor the work zone and for periodic monitoring for VOCs during activities such as soil and groundwater sampling and soil excavation. The site perimeter will be monitored for fugitive dust emissions by visual observations as well as instrumentation measurements. Particulate or dust will be monitored continuously with real-time field instrumentation that will meet, at a minimum, the performance standards from DER-10 Appendix 1B.

The following actions will be taken based on VOC levels measured:

- If total VOC levels exceed 5 ppm above background for the 15-minute average at the perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work activities will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the work zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work activities will be halted, the

source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps work activities will resume provided that the total organic vapor level 200 feet downwind of the work zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.

- If the total VOC level is above 25 ppm at the perimeter of the work zone, activities will be shut down.

The following actions will be taken based on dust levels measured:

- If the downwind particulate level is 100 micrograms per cubic meter (µg/m³) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind PM10 levels do not exceed 150 µg/m³ above the background level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m³ above the background level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.

8.1 Vapor Emission Response Plan

If the ambient air concentration of organic vapors exceeds 5 ppm above background at the perimeter of the work zone, boring and well installation, and excavation activities will be halted or odor controls will be employed, and monitoring continued. When work shut-down occurs, downwind air monitoring as directed by the HSO or FTL will be implemented to ensure that vapor emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission section.

If the organic vapor level decreases below 5 ppm above background, sampling and boring and well installation can resume, provided:

- The organic vapor level 200 feet downwind of the work zone or half the distance to the nearest residential or commercial structure, whichever is less, is below 1 ppm over background, and
- More frequent intervals of monitoring, as directed by the HSO or FTL, are conducted.

8.2 Major Vapor Emission

If any organic levels greater than 5 ppm over background are identified 200 feet downwind from the work site, or half the distance to the nearest residential or commercial property, whichever is less, all work activities must be halted or odor controls must be implemented.

If, following the cessation of the work activities, or as the result of an emergency, organic levels persist above 5 ppm above background 200 feet downwind or half the distance to the nearest residential or commercial property from the work zone, then the air quality must be monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20 Foot Zone).

If either of the following criteria is exceeded in the 20 Foot Zone, then the Major Vapor Emission Response Plan shall automatically be implemented.

- Sustained organic vapor levels approaching 5 ppm above background for a period of more than 30 minutes, or
- Organic vapor levels greater than 5 ppm above background for any time period.

8.3 Major Vapor Emission Response Plan

Upon activation, the following activities will be undertaken:

- The local police authorities will immediately be contacted by the HSO or FTL and advised of the situation;
- Frequent air monitoring will be conducted at 30-minute intervals within the 20 Foot Zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the HSO or FTL; and
- All Emergency contacts will go into effect as appropriate.

8.4 Dust Suppression Techniques

Preventative measures for dust generation may include wetting site fill and soil, construction of an engineered construction entrance with gravel pad, a truck wash area, covering soils with tarps, and limiting vehicle speeds to five miles per hour.

Work practices to minimize odors and vapors include limiting the time that the excavations remain open, minimizing stockpiling of contaminated-source soil, and minimizing the handling of contaminated material. Offending odor and organic vapor controls may include the application of foam suppressants or tarps over the odor or VOC source areas. Foam suppressants may include biodegradable foams applied over the source material for short-term control of the odor and VOCs.

If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: direct load-out of soils to trucks for off-site disposal; use of chemical odorants in spray or misting systems; and, use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

9.0 WORK ZONES AND DECONTAMINATION

9.1 Site Control

Work zones are intended to control the potential spread of contamination throughout the site and to assure that only authorized individuals are permitted into potentially hazardous areas.

Any person working in an area where the potential for exposure to site contaminants exists will only be allowed access after providing the HSO with proper training and medical documentation.

Exclusion Zone (EZ) - All activities which may involve exposure to site contaminants, hazardous materials and/or conditions should be considered an EZ. Decontamination of field equipment will also be conducted in the Contaminant Reduction Zone (CRZ) which will be located on the perimeter of the EZ. The EZ and the CRZ will be clearly delineated by cones, tapes or other means. The HSO may establish more than one EZ where different levels of protection may be employed or different hazards exist. The size of the EZ shall be determined by the HSO allowing adequate space for the activity to be completed, field members and emergency equipment.

9.2 Contamination Zone

9.2.1 Personnel Decontamination Station

Personal hygiene, coupled with diligent decontamination, will significantly reduce the potential for exposure.

9.2.2 Minimization of Contact with Contaminants

During completion of all site activities, personnel should attempt to minimize the chance of contact with contaminated materials. This involves a conscientious effort to keep "clean" during site activities. All personnel should minimize kneeling, splash generation, and other physical

contact with contamination as PPE is intended to minimize accidental contact. This may ultimately minimize the degree of decontamination required and the generation of waste materials from site operations.

Field procedures will be developed to control over spray and runoff and to ensure that unprotected personnel working nearby are not affected.

9.2.3 Personnel Decontamination Sequence

Decontamination may be performed by removing all PPE used in EZ and placing it in drums/trash cans at the CRZ. Baby wipes should be available for wiping hands and face. Drums/trash cans will be labeled by the field crews in accordance with all local, state, and federal requirements. Management plans for contaminated PPE, and tools are provided below.

9.2.4 Emergency Decontamination

If circumstances dictate that contaminated clothing cannot be readily removed, then remove gross contamination and wrap injured personnel with clean garments/blankets to avoid contaminating other personnel or transporting equipment. If the injured person can be moved, he/she will be decontaminated by site personnel as described above before emergency responders handle the victim. If the person cannot be moved because of the extent of the injury (a back or neck injury), provisions shall be made to ensure that emergency response personnel will be able to respond to the victim without being exposed to potentially hazardous atmospheric conditions. If the potential for inhalation hazards exist, such as with open excavation, this area will be covered with polyethylene sheeting to eliminate any potential inhalation hazards. All emergency personnel are to be immediately informed of the injured person's condition, potential contaminants, and provided with all pertinent data.

9.2.5 Hand-Held Equipment Decontamination

Hand-held equipment includes all monitoring instruments as stated earlier, samples, hand tools, and notebooks. The hand-held equipment is dropped at the first decontamination station to be decontaminated by one of the decontamination team members. These items must be decontaminated or discarded as waste prior to removal from the CRZ.

To aid in decontamination, monitoring instruments can be sealed in plastic bags or wrapped in polyethylene. This will also protect the instruments against contaminants. The instruments will be wiped clean using wipes or paper towels if contamination is visually evident. Sampling equipment, hand tools, etc. will be cleaned with non-phosphorous soap to remove any potentially contaminated soil, and rinsed with deionized water. All decontamination fluids will be

containerized and stored on-site pending waste characterization sampling and appropriate off-site disposal.

9.2.6 Heavy Equipment Decontamination

All heavy equipment and vehicles arriving at the work site will be free from contamination from offsite sources. Any vehicles arriving to work that are suspected of being impacted will not be permitted on the work site. Potentially contaminated heavy equipment will not be permitted to leave the EZ unless it has been thoroughly decontaminated and visually inspected by the HSO or his designee.

9.3 Support Zone

The support zone or cold zone will include the remaining areas of the job site. Break areas and support facilities (include equipment storage and maintenance areas) will be located in this zone. No equipment or personnel will be permitted to enter the cold zone from the work zone without passing through the decontamination station in the warm zone (if necessitated). Eating, smoking, and drinking will be allowed only in this area.

9.4 Communications

The following communications equipment will be utilized as appropriate.

- Telephones - A cellular telephone will be located with the HSO for communication with the HSM and emergency support services/facilities.
- Hand Signals - Hand signals shall be used by field teams, along with the buddy system. The entire field team shall know them before operations commence and their use covered during site-specific training. Typical hand signals are the following:

Hand Signal	Meaning
Hand gripping throat	Out of air; cannot breathe
Grip partners wrists or place both hands around waist	Leave immediately without debate
Hands on top of head	Need assistance
Thumbs up	OK; I'm alright; I understand
Thumbs down	No; negative
Simulated "stick" break with fists	Take a break; stop work

9.5 The Buddy System

When working in teams of two or more, workers will use the "buddy system" for all work activities to ensure that rapid assistance can be provided in the event of an emergency. This requires work groups to be organized such that workers can remain close together and maintain visual contact with one another. Workers using the "buddy system" have the following responsibilities:

- Provide his/her partner with assistance.
- Observe his/her partner for signs of chemical or heat exposure.
- Periodically check the integrity of his/her partner's PPE.
- Notify the HSO or other site personnel if emergency service is needed.

10.0 NEAREST MEDICAL ASSISTANCE

The address and telephone number of the nearest hospital:

New York Presbyterian/Columbia University Hospital
622 168th Street
New York, New York 10032
Telephone: 212-305-6204

Map with directions to the hospital are shown in Figure 2. This information will either be posted prominently at the site or will be available to all personnel all of the time. Further, all field personnel, including the HSO & FTL, will know the directions to the hospital.

11.0 STANDING ORDERS/SAFE WORK PRACTICES

The standing orders, which consist of a description of safe work practices that must always be followed while on-site by Langan employees and contractors, are shown in Attachment A. The site HSO and FTL each have the responsibility for enforcing these practices. The standing orders will be posted prominently at the site, or are made available to all personnel at all times. Those who do not abide by these safe work practices will be removed from the site.

12.0 SITE SECURITY

No unauthorized personnel shall be permitted access to the work areas.

13.0 UNDERGROUND UTILITIES

As provided in Langan's Underground Utility Clearance Guidelines, the following safe work practices should be followed by Langan personnel and the contractor before and during subsurface work in accordance with federal, state and local regulations:

- Obtain available utility drawings from the property owner/client or operator.
- Provide utility drawings to the project team.
- In the field, mark the proposed area of subsurface disturbance (when possible).
- Ensure that the utility clearance system has been notified.
- Ensure that utilities are marked before beginning subsurface work.
- Discuss subsurface work locations with the owner/client and contractors.
- Obtain approval from the owner/client and operators for proposed subsurface work locations.
- Use safe digging procedures when applicable.
- Stay at least 10 feet from all equipment performing subsurface work.

14.0 SITE SAFETY INSPECTION

The Langan HSO or alternate will check the work area daily, at the beginning and end of each work shift or more frequently to ensure safe work conditions. The HSO or alternate must complete the Jobsite Safety Inspection Checklist, found in Attachment F. Any deficiencies shall be shared with the FTL, HSM and PM and will be discussed at the daily tailgate meeting.

15.0 HAND AND POWER TOOLS

All hand- and electric-power tools and similar equipment shall be maintained in a safe operating condition. All electric-power tools must be inspected before initial use. Damaged tools shall be removed immediately from service or repaired. Tools shall be used only for the purpose for which they were designed. All users must be properly trained in their safe operation.

16.0 EMERGENCY RESPONSE

16.1 General

This section establishes procedures and provides information for use during a project emergency. Emergencies happen unexpectedly and quickly, and require an immediate response; therefore, contingency planning and advanced training of staff is essential. Specific elements of emergency support procedures that are addressed in the following subsections include communications, local emergency support units, and preparation for medical emergencies, first aid for injuries incurred on site, record keeping, and emergency site evacuation procedures. In case of emergency, in addition to 911, call *Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

Should outside assistance be needed for accidents, fire, or release of hazardous substances, the emergency numbers will be available and posted at the site (Table 5) where a readily accessible telephone is made available for emergency use.

Also, in the event of an incident where a team member becomes exposed or suffers from an acute symptom from contact with site materials and has to be taken to a hospital, a short medical data sheet (Attachment T) for that individual will be made available to the attending physician. The medical data sheet will include the following:

- Name, address, home phone
- Age, height, weight
- Name of person to be notified in case of an accident
- Allergies
- Particular sensitivities
- Does he/she wear contact lenses
- Short checklist of previous illness
- Name of personal physician and phone
- Name of company physician and phone
- Prescription and non-prescription medications currently used.

A sample medical data sheet is included in Attachment T.

16.2 Responsibilities

16.2.1 Health and Safety Officer (HSO)

The HSO is responsible for ensuring that all personnel are evacuated safely and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. The HSO is responsible for ensuring the HSM are notified of all incidents, all injuries, near misses, fires, spills, releases or equipment damage. The HSO is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized) so that the HSM can notify OSHA within the required time frame.

16.2.2 Emergency Coordinator

The HSO or their designated alternate will serve as the Emergency Coordinator. The Emergency Coordinator is responsible for ensuring that all personnel are evacuated safely and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. They are also responsible for ensuring the HSM are notified of all incidents, all injuries, near misses, fires, spills, releases or equipment damage. The Emergency Coordinator is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized.

The Emergency Coordinator shall locate emergency phone numbers and identify hospital routes prior to beginning work on the sites. The Emergency Coordinator shall make necessary arrangements to be prepared for any emergencies that could occur.

The Emergency Coordinator is responsible for implementing the Emergency Response Plan.

16.2.3 Site Personnel

Project site personnel are responsible for knowing the Emergency Response Plan and the procedures contained herein. Personnel are expected to notify the Emergency Coordinator of situations that could constitute a site emergency. Project site personnel, including all subcontractors will be trained in the Emergency Response Plan.

16.3 Communications

Once an emergency situation has been stabilized, or as soon as practically, the injured Langan personnel should contact *Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

16.4 Local Emergency Support Units

In order to be able to deal with any emergency that might occur during investigative activities at the site, the Emergency Notification Numbers (Table 5) will be posted and provided to all personnel conducting work within the EZ.

Figure 2 shows the hospital route map. Outside emergency number 911 and local ambulance should be relied on for response to medical emergencies and transport to emergency rooms. Always contact first responders when there are serious or life threatening emergencies on the site. Project personnel are instructed not to drive injured personnel to the Hospital. In the event of an injury, provide first aid and keep the injured party calm and protected from the elements and treat for shock when necessary.

16.5 Pre-Emergency Planning

Langan will communicate directly with administrative personnel from the emergency room at the hospital in order to determine whether the hospital has the facilities and personnel needed to treat cases of trauma resulting from any of the contaminants expected to be found on the site. Instructions for finding the hospital will be posted conspicuously in the site office and in each site vehicle.

16.6 Non-Emergency Medical Treatment

In case of injury to personnel, which is not a medical emergency the employee will contact WorkCare at (1-888-449-7787). WorkCare provides access 24 hours / 7 days a week to experienced occupational health nurses and physicians who confer with employees at the onset of a work-related injury or illness. WorkCare will provide over the phone injury treatment or direct employees to medical treatment by third party provider, if appropriate.

16.7 Emergency Medical Treatment

The procedures and rules in this HASP are designed to prevent employee injury. However, should an injury occur, no matter how slight, it will be reported to the HSO immediately. First-aid equipment will be available on site at the following locations:

- First Aid Kit: Contractor Vehicles
- Emergency Eye Wash: Contractor Vehicles

During the site safety briefing, project personnel will be informed of the location of the first aid station(s) that has been set up. Some injuries, such as severe cuts and lacerations or burns, may require immediate treatment. Any first aid instructions that can be obtained from doctors or paramedics, before an emergency-response squad arrives at the site or before the injured person can be transported to the hospital, will be followed closely.

16.8 Personnel with current first aid and CPR certification will be identified.

Only in non-emergency situations may an injured person be transported to an urgent care facility. Due to hazards that may be present at the site and the conditions under which operations are conducted, it is possible that an emergency situation may develop. Emergency situations can be characterized as injury or acute chemical exposure to personnel, fire or explosion, environmental release, or hazardous weather conditions.

16.9 Emergency Site Evacuation Routes and Procedures

All project personnel will be instructed on proper emergency response procedures and locations of emergency telephone numbers during the initial site safety meeting. If an emergency occurs as a result of the site investigation activities, including but not limited to fire, explosion or significant release of toxic gas into the atmosphere, the Langan Project Manager will be verbally notified immediately. All heavy equipment will be shut down and all personnel will evacuate the work areas and assemble at the nearest intersection to be accounted for and to receive further instructions.

In the event that an emergency situation arises, the FTL will implement an immediate evacuation of all project personnel due to immediate or impending danger. The FTL will also immediately communicate with the contractor to coordinate any needed evacuation of the property.

The FTL or Site Supervisor will give necessary instructions until the Designated Incident Commander (IC) assumes control. After the emergency has been resolved, the FTL or Site Supervisor will coordinate with the IC and indicate when staff should resume their normal duties. If dangers are present for those at the designated assembly point, another designated location of assembly will be established.

It will be the responsibility of the FTL or Site Supervisor to report a fire or emergency, assess the seriousness of the situation, and initiate emergency measures until the arrival of the local fire fighters or other first responders, should they be necessary. The FTL, working with emergency responders, may also order the closure of the Site for an indefinite period as long as it is deemed necessary.

Under no circumstances will incoming visitors be allowed to proceed to the area of concern, once an emergency evacuation has been implemented. Visitors or other persons present in the area of the emergency shall be instructed to evacuate the area. The FTL will ensure that access roads are not obstructed and will remain on-site to provide stand-by assistance upon arrival of emergency personnel.

If it is necessary to temporarily control traffic in the event of an emergency, those persons controlling traffic will wear proper reflection warning vests until the arrival of police or fire personnel.

16.9.1 Designated Assembly Locations

All personnel will evacuate the site and assemble at a designated assembly location. The assembly location will be designated by Langan personnel and discussed during each shift's pre-job safety briefing.

16.9.2 Accounting for Personnel

All contractor and subcontractor supervisors are responsible for the accounting of all personnel assembled at the designed assembly area. The Designated Incident Commander shall be notified if personnel are not found.

16.10 Fire Prevention and Protection

In the event of a fire or explosion, procedures will include immediately evacuating the site and notification of the Langan Project Manager of the investigation activities. Portable fire extinguishers will be provided at the work zone. The extinguishers located in the various locations should also be identified prior to the start of work. No personnel will fight a fire beyond the stage where it can be put out with a portable extinguisher (incipient stage).

16.10.1 Fire Prevention

Fires will be prevented by adhering to the following precautions:

- Good housekeeping and storage of materials.
- Storage of flammable liquids and gases away from oxidizers.
- Shutting off engines to refuel.
- Grounding and bonding metal containers during transfer of flammable liquids.
- Use of UL approved flammable storage cans.
- Fire extinguishers rated at least 10 pounds ABC located on all heavy equipment, in all trailers and near all hot work activities.

The person responsible for the control of fuel source hazards and the maintenance of fire prevention and/or control equipment is the HSO.

16.11 Significant Vapor Release

Based on the proposed tasks, the potential for a significant vapor release is low. However, if a release occurs, the following steps will be taken:

- Move all personnel to an upwind location. All non-essential personnel shall evacuate.
- Upgrade to Level C Respiratory Protection.
- Downwind perimeter locations shall be monitored for volatile organics.
- If the release poses a potential threat to human health or the environment in the community, the Emergency Coordinator shall notify the Langan Project Manager.
- Local emergency response coordinators will be notified.

16.12 Overt Chemical Exposure

The following are standard procedures to treat chemical exposures. Other, specific procedures detailed on the Material Safety Data Sheet (MSDS) will be followed, when necessary.

SKIN AND EYE: Use copious amounts of soap and water from eye-wash kits and portable hand wash stations.

CONTACT: Wash/rinse affected areas thoroughly, then provide appropriate medical attention. Skin shall also be rinsed for 15 minutes if contact with caustics, acids or hydrogen peroxide occurs. Affected items of clothing shall also be removed from contact with skin.

Providing wash water and soap will be the responsibility of each individual contractor or subcontractor on-site.

16.13 Decontamination during Medical Emergencies

If emergency life-saving first aid and/or medical treatment is required, normal decontamination procedures may need to be abbreviated or omitted. The HSO or designee will accompany contaminated victims to the medical facility to advice on matters involving decontamination when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed on site, a plastic barrier placed between the injured individual and clean surfaces should be used to help prevent contamination of the inside of ambulances and/or medical personnel. Outer garments may then be removed at the medical facility. No attempt will be made to wash or rinse the victim if his/her injuries are life threatening, unless it is known that the individual has been contaminated with an extremely toxic or corrosive material which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, the normal decontamination procedures will be followed.

16.14 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work will continue without potentially risking the safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related working conditions (hail, rain, snow, ice, high winds).
- Limited visibility (fog).
- Potential for electrical storms.
- Earthquakes.
- Other major incidents.

Site activities will be limited to daylight hours, or when suitable artificial light is provided, and acceptable weather conditions prevail. The HSO will determine the need to cease field operations or observe daily weather reports and evacuate, if necessary, in case of severe inclement weather conditions.

16.15 Spill Control and Response

All small spills/environmental releases shall be contained as close to the source as possible. Whenever possible, the MSDS will be consulted to assist in determining proper waste characterization and the best means of containment and cleanup. For small spills, sorbent materials such as sand, sawdust or commercial sorbents should be placed directly on the substance to contain the spill and aid recovery. Any acid spills should be diluted or neutralized carefully prior to attempting recovery. Berms of earthen or sorbent materials can be used to contain the leading edge of the spills. All spill containment materials will be properly disposed. An exclusion zone of 50 to 100 feet around the spill area should be established depending on the size of the spill.

All contractor vehicles shall have spill kits on them with enough material to contain and absorb the worst-case spill from that vehicle. All vehicles and equipment shall be inspected prior to be admitted on site. Any vehicle or piece of equipment that develops a leak will be taken out of service and removed from the job site.

The following seven steps shall be taken by the Emergency Coordinator:

1. Determine the nature, identity and amounts of major spills.
2. Make sure all unnecessary persons are removed from the spill area.
3. Notify the HSO immediately.
4. Use proper PPE in consultation with the HSO.
5. If a flammable liquid, gas or vapor is involved, remove all ignition sources and use non-sparking and/or explosion-proof equipment to contain or clean up the spill (diesel-only vehicles, air-operated pumps, etc.)
6. If possible, try to stop the leak with appropriate material.
7. Remove all surrounding materials that can react or compound with the spill.

In addition to the spill control and response procedures described in this HASP, Langan personnel will coordinate with the designated project manager relative to spill response and control actions. Notification to the Project Manager must be immediate and, to the extent possible, include the following information:

- Time and location of the spill.
- Type and nature of the material spilled.
- Amount spilled.
- Whether the spill has affected or has a potential to affect a waterway or sewer.
- A brief description of affected areas/equipment.
- Whether the spill has been contained.

- Expected time of cleanup completion. If spill cleanup cannot be handled by Langan's on-site personnel alone, such fact must be conveyed to the Project Manager immediately.

Langan shall not make any notification of spills to outside agencies. The client will notify regulatory agencies as per their reporting procedures.

16.16 Emergency Equipment

The following minimum emergency equipment shall be kept and maintained on site:

- Industrial first aid kit.
- Fire extinguishers (one per site).

16.17 Restoration and Salvage

After an emergency, prompt restoration of utilities, fire protection equipment, medical supplies and other equipment will reduce the possibility of further losses. Some of the items that may need to be addressed are:

- Refilling fire extinguishers.
- Refilling medical supplies.
- Recharging eyewashes and/or showers.
- Replenishing spill control supplies.

16.18 Documentation

Employees are required to contact WorkCare at (1-888-449-7787) to document incidents/injuries which are not medical emergencies. Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan Incident/Injury Hotline at 973-560-4699 and the client representative to report the incident or near miss. For emergencies involving personnel injury and/or exposure, the HSO and affected employee will complete and submit an Employee Exposure/Injury Incident Report (Attachment C) to the Langan Corporate Health and Safety Manager as soon as possible following the incident.

17.0 SPECIAL CONDITIONS

This guideline contains information and requirements for special conditions that may not be routinely encountered.

17.1 Scope

The guideline applies to the specific projects identified within this document. Additional provisions will be addressed in each Site-Specific Health and Safety Plan (HASP), as needed.

17.2 Responsibilities

Site Personnel - All site personnel must be alert to safety hazards on work sites and take action to minimize such hazards. Personnel must utilize the buddy system, watch for inappropriate behavior, and be alert to changes in site conditions.

Health and Safety Officer (HSO) - The HSO is responsible for considering these procedures in the development of site specific HASPs. The HSO shall schedule frequent "tail gate" safety briefings to enhance safety awareness and discuss potential problems.

17.3 Procedures

The procedures outlined below shall be followed when such conditions are encountered.

17.3.1 Ladders

Langan safety procedures shall be used to ensure employee safety when using ladders in the office or work sites. All ladders shall be coated or repaired to prevent injury to the employee from punctures or lacerations and to prevent snagging or clothing. Any wood ladders used must have an opaque covering except for identification or warning labels, which may be placed on one face only of a side rail.

17.3.1.1 Ladder Use

Employees shall only use ladders for the purposes, which they were designed and shall not be used as scaffolding. Ladders will be maintained and inspected prior to use for slip hazards including oil and grease. Employees shall use ladders only on stable and level surfaces unless the ladder is secured to prevent possible displacement. Ladders should not be used on slippery surfaces unless secured or provided with slip resistant feet to prevent accidental displacement. Ladders should not be used in locations where they could be displaced by workplace activities or traffic. Ladder rungs, cleats and steps shall be parallel, level and uniformly spaced when the ladder is in the use position.

Employees should not be carrying anything including equipment that could cause injury if there was a fall while utilizing the ladder. The top and bottom of the ladder area must remain clear while in use. When ascending and descending the ladder, employees must face the ladder.

Ladders shall not be loaded beyond the maximum intended load for which they were built or the manufacturer's rated capacity.

17.3.1.2 Portable Ladders

Rungs, cleats and steps for portable ladders and fixed ladders shall be spaced not less than 10 inches apart, nor more than 14 inches apart, as measured between center lines of the rungs, cleats and steps. When used to access an upper landing surface, the ladder side rails must extend at least three feet above the upper landing surface to which the ladder is used to gain access. If this is not possible, due to the ladders length, then the top of the ladder shall be secured at its top to a rigid support.

17.3.1.3 Step Stools

Rungs, cleats and steps of step stools shall not be less than 8 inches apart, nor more than 12 inches apart, as measured between center lines of the rungs, cleats and steps.

17.3.1.4 Extension Ladders

Rungs, cleats and steps of the base section of extension trestle ladders shall be spaced not less than 8 inches apart, nor more than 18 inches apart, as measured between center lines of the rungs, cleats and steps. The rung spacing on the extension section of the extension trestle ladder shall not be less than 6 inches nor more than 12 inches, as measured between center lines of the rungs, cleats and steps. Ladders shall be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).

17.3.1.5 Inspection

Ladders will be inspected for visible detects periodically, prior to utilization or after any occurrence that could have negatively affected the ladder. Portable ladders with defects including broken or missing rungs, cleats, or steps, broken or split rails, corroded components or other faulty or defective components shall not be used. The ladder will be immediately marked as defective, tagged as "Do Not Use" or blocked from being used and removed from service until repaired.

17.3.2 First Aid/Cardiopulmonary Resuscitation (CPR)

Langan field and office personnel will be encouraged to be trained in First Aid and Cardiopulmonary Resuscitation (CPR). Training will be provided free of charge by Langan to all employees. Employees will receive a training certificate that will be kept on file with the Health

& Safety Coordinator (HSC). Training and certification will be provided by a credited provider such as American Red Cross or equivalent.

17.3.2.1 Emergency Procedures

Prior to work at sites the Langan employees certified in first aid and CPR will be identified in the site specific HASP. Langan will endear to have at least one employee at a job site trained and able to render first aid and CPR. The site specific HASP will contain first aid information on both potential chemical and physical hazards. Emergency procedures to be followed are in case of injury or illnesses are provided in the HASP. The HASP will include emergency contact information including local police and fire departments, hospital emergency rooms, ambulance services, on-site medical personnel and physicians. The HASP will also include directions and contact information to the nearest emergency facility in case immediate medical attention is required. The emergency contact information will be conspicuously posted at the worksite. Employees that are injured and require immediate medical attention shall call either 911 or the local posted emergency contacts. Employees should use ambulatory services to transport injured workers to the nearest facility for emergency medical care. In areas where 911 is not available, the telephone numbers of the physicians, hospitals, or ambulances shall be conspicuously posted.

17.3.2.2 First Aid Supplies

First aid supplies are readily available to all Langan employees when required. First aid kits are located in each Langan office. Portable first aid kits are available for employees to use at work sites. First aid kits should consist of items needed to treat employees for potential chemical and physical injuries. At a minimum, first aid kits should contain items to allow basic first aid to be rendered. Where the eyes or body of an employee may be exposed to corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within the work area for immediate emergency use including eye wash.

First aid kits will be weatherproof with individual sealed packages of each item. All portable first aid kits shall be inspected by Langan employees before and after use to ensure all used items are replaced. When out in the field, employees shall check first aid kits weekly to ensure used items are replaced.

17.3.3 Hydrogen Sulfide

Langan employees with the potential to be exposed to hydrogen sulfide while at work sites shall have training in hydrogen sulfide awareness. The training will include identification of areas where employees could be exposed to hydrogen sulfide, health effects, permissible exposure

limits, first aid procedures and personnel protective equipment. Langan employees could be exposed to hydrogen sulfide while at job sites including petroleum refineries, hazardous waste treatment, storage and disposal facilities, uncontrolled hazardous waste sites and remediation projects.

17.3.3.1 Characteristics

Hydrogen sulfide is a colorless gas with a strong odor of rotten eggs that is soluble in water. Hydrogen sulfide is used to test and make other chemicals. It is also found as a by-product of chemical reactions, such as in sewer treatment. It is a highly flammable gas and a dangerous fire hazard. Poisonous gases are produced in fires including sulfur oxides. Hydrogen sulfide is not listed as a carcinogen.

17.3.3.2 Health Effects

Hydrogen Sulfide can affect employees if inhaled or through contact with skin or eyes. Acute (or short term) health effects of hydrogen sulfide exposure include irritation of the nose and throat, dizziness, confusion, headache and trouble sleeping. Inhalation of hydrogen sulfide can irritate the lungs causing coughing and/or shortness of breath. Higher levels of exposure can cause build-up of fluid in the lungs (pulmonary edema), a medical emergency, with severe shortness of breath.

Chronic (or long term) health effects of low levels of exposure to hydrogen sulfide can cause pain and redness of the eyes with blurred vision. Repeated exposure may cause bronchitis with cough, phlegm and shortness of breath.

17.3.3.3 Protective Clothing and Equipment

Respirators are required for those operations in which employees will be exposed to hydrogen sulfide above OSHA permissible exposure level. The maximum OSHA permissible exposure limit (PEL) for hydrogen sulfide is 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm) for an 8-hour workday and the maximum short-term exposure limit (STEL) is 10 ppm for any 10-minute period.

Where employees are exposed to levels up to 100 parts of hydrogen sulfide vapor per million parts of air (100 ppm), the following types of respiratory protection are allowed:

- Any powered, air purifying respirator with cartridge(s);
- Any air purifying, full-facepiece respirator (gas mask) with a chin style, front- or back-mounted canister;

- Any supplied air system with escape self-contained breathing apparatus, if applicable; and,
- Any self-contained breathing apparatus with a full facepiece.

Respirators used by employees must have joint Mine Safety and Health Administration and the National Institute for Occupational Safety and Health (NIOSH) seal of approval. Cartridges or canisters must be replaced before the end of their service life, or the end of the shift, whichever occurs first. Langan employees that have the potential to be exposed to hydrogen sulfide will be trained in the proper use of respirators. Respirator training is discussed under– Langan's Respiratory Protection Program.

Employees with potential exposure to hydrogen sulfide, or when required by the client, will wear a portable hydrogen sulfide gas detector. The detector should have an audible, visual and vibrating alarm. The detector may also provide detection for carbon monoxide, sulfur dioxide and oxygen deficient atmospheres. The hydrogen sulfide monitor will, at a minimum, be calibrated to detect hydrogen sulfide at a level of 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm). Many portable gas detectors will have factory defaults with a low level alarm at 10 ppm and a high level alarm at 15 ppm. Langan employees shall consult clients to determine if any site specific threshold levels exist.

If the hydrogen sulfide gas detector sounds and employees are not wearing appropriate respiratory protection, employees must immediately vacate the area and meet at the assigned emergency location. Langan employees may not re- enter the site without proper respiratory protection and approval from the client or property owner, if needed.

Employees shall wear PPE to prevent eye and skin contact with hydrogen sulfide. Employees must wear appropriate protective clothing including boots, gloves, sleeves and aprons, over any parts of their body that could be exposed to hydrogen sulfide. Non-vented, impact resistant goggles should be worn when working with or exposed to hydrogen sulfide.

17.3.3.4 Emergency and First Aid Procedures

Eye and Face Exposure

If hydrogen sulfide comes in contact with eyes, it should be washed out immediately with large amounts of water for 30 minutes, occasionally lifting the lower and upper eye lids. Seek medical attention immediately.

Skin Exposure

If hydrogen sulfide contaminates clothing or skin, remove the contaminated clothing immediately and wash the exposed skin with large amounts of water and soap. Seek medical attention immediately. Contaminated clothing should either be disposed of or washed before wearing again.

Breathing

If a Langan employee or other personnel breathe in hydrogen sulfide, immediately get the exposed person to fresh air. If breathing has stopped, artificial respiration should be started. Call for medical assistance or a doctor as soon as possible.

Safety Precautions

Hydrogen sulfide is a highly flammable gas and a dangerous fire hazard. Containers of hydrogen sulfide may explode in a fire situation. Poisonous gases are produced during fires.

Langan employees should contact property owners and operators prior to conducting work onsite to be aware of any site specific contingency plans, identify where hydrogen sulfide is used at the facility and be informed about additional safety rules or procedures.

17.3.4 Fire Protection/Extinguishers

Langan field personnel that have been provided with portable fire extinguishers for use at worksites will be trained to familiarize employees with general principles of fire extinguisher use and hazards associated with the incipient stage of firefighting. Training will be provided prior to initial assignment for field work and annually thereafter.

Portable fire extinguishers shall be visually inspected monthly and subjected to an annual maintenance check. Langan shall retain records of the annual maintenance date.

17.3.5 Overhead lines

When field work is performed near overhead lines, the lines shall be de-energized and grounded, or other protective measures shall be provided before the work shall commence. If overhead lines are to be de-energized, arrangements shall be made with the client, property owner or organization that operates or controls the electric circuits involved to de-energize and ground them. If protective measures, such as guarding, isolating, or insulating, are provided, these precautions shall prevent employees from contacting such lines directly with any part of their body or indirectly through conductive materials, tools, or equipment.

When unqualified Langan personnel are working in an elevated position near overhead lines, the location shall be such that the person and the longest conductive object they may contact cannot come closer to any unguarded, energized overhead line than the following distances:

1. For voltages to ground 50kV or below - 10 feet; and
2. For voltages to ground over 50kV - 10 feet, plus 4 inches for every 10kV over 50kV.

As previously indicated, Langan does not retain qualified employees to perform work on energized equipment.

17.3.5.1 Vehicle and Equipment Clearance

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines shall be operated so that a clearance of 10 feet is maintained. If the voltage of the overhead lines is higher than 50kV, the clearance shall be increased 4 inches for every 10kV over that voltage.

If any of the following discussed conditions occur, the clearance may be reduced.

- If the vehicle is in transit with its structure lowered, the clearance may be reduced to 4 ft. If the voltage is higher than 50kV, the clearance shall be increased 4 in. for every 10 kV over that voltage.
- If insulating barriers are installed to prevent contact with the lines, and if the barriers are rated for the voltage of the line being guarded and are not a part of or an attachment to the vehicle or its raised structure, the clearance may be reduced to a distance within the designed working dimensions of the insulating barrier.

Employees standing on the ground may not contact the vehicle or mechanical equipment or any of its attachments, unless the employee is using protective equipment rated for the voltage; or the equipment is located so that no uninsulated part of its structure (that portion of the structure that provides a conductive path to employees on the ground) can come closer to the overhead line than permitted.

If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead line contact. Additional precautions, such as the use of barricades or insulation, shall be taken to protect employees from hazardous ground potentials, depending on earth resistivity and fault currents, which can develop within the first few feet or more outward from the grounding point.

17.3.6 Trade Secret

Langan employees could potentially be provided trade secret information by the client or property owner when site specific information is provided about highly hazardous chemicals. Trade secret means any confidential formula, pattern, process, device, information or compilation of information that is used in an employer's business, and that gives the employer an opportunity to obtain an advantage over competitors who do not know or use it. Langan employees understand that this information should be kept confident and if required, may enter into a confidentially agreement with the client.

17.3.7 Bloodborne Pathogens

Langan employees that can reasonably anticipate exposure to blood or other potentially infectious material while at work sites shall have training in bloodborne pathogens. Applicable employees would include those trained in first aid and serving a designated role as an emergency medical care provider. Bloodborne pathogens are pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include, but are not limited to, hepatitis B virus and human immunodeficiency virus.

17.3.7.1 Training

Langan employees with potential occupational exposure to blood or other potentially infectious material must participate in a training program. Training must be conducted prior to initial assignment where there would be potential for exposure and annually thereafter within one year of previous training. The training program will be provided to Langan employees at no cost to them and during working hours.

Langan will ensure the training program shall consist of the following:

- An accessible copy of the regulatory text of 29 CFR 1910.1030 and an explanation of its contents;
- A general explanation of the epidemiology and symptoms of bloodborne diseases;
- An explanation of the modes of transmission of bloodborne pathogens;
- An explanation of Langan's exposure control plan and the means by which the employee can obtain a copy of the written plan;
- An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure to blood and other potentially infectious materials;
- An explanation of the use and limitations of personal protective
    - equipment (PPE) to prevent and reduce exposure;
    - Information on the types, proper use, location, removal, handling and disposal of PPE;

- An explanation of the basis for selection of PPE;
- Information on the hepatitis B vaccine, including information on its efficacy, safety, method of administration, the benefits of being vaccinated, and that the vaccine and vaccination will be offered free of charge;
- Information on the appropriate actions to take and persons to contact in an emergency involving blood or other potentially infectious materials;
- An explanation of the procedure to follow if an exposure incident occurs, including the method of reporting the incident and the medical follow-up that will be made available;
- Information on the post-exposure evaluation and follow-up that the
- employer is required to provide for the employee following an exposure incident;
- An explanation of the signs and labels and/or color coding required by paragraph 29 CFR 1910.1030(g)(1); and
- An opportunity for interactive questions and answers with the person conducting the training session.

Langan will develop and implement a written Exposure Control Plan, which will be designed to eliminate or minimize employee exposure to bloodborne pathogens. The Exposure Control Plan will contain the following elements:

- An exposure determination for employees;
- The schedule and method of implementation for Methods of Compliance (29 CFR 191.1030(d)), Hepatitis B Vaccination and Post-Exposure Evaluation and Follow-up (29 CFR 1910.1030(f)), Communication of Hazards to Employees (29 CFR 1910.1030(g)) and (h) Recordkeeping (29 CFR 1910.1030(h));
- The procedure for the evaluation of circumstances surrounding exposure incidents;
- Ensure a copy of the Exposure Control Plan will be accessible to employees; and,
- The Exposure Control Plan shall be reviewed and updated at least annually.

Langan employees with occupational exposure to bloodborne pathogens include any employees trained in first aid that would be expected to provide emergency medical care. This determination is made without regards to the use of PPE, which could eliminate or minimize exposure.

Universal precautions shall be observed to prevent contact with blood or other potentially infectious materials. According to the concept of Universal Precautions, all human blood and certain human body fluids are treated as if known to be infectious for bloodborne pathogens. Under circumstances in which differentiation between body fluid types is difficult or impossible, all body fluids shall be considered potentially infectious materials.

Work practice controls shall be used to eliminate or minimize employee exposure, if applicable. Since Langan employees will have occupational exposure only during rendering of first aid, personnel protective equipment will be utilized to reduce or minimize exposure. PPE that could be available to Langan personnel when administering first aid includes safety glasses, gloves, and Tyvek suits or sleeves. PPE and first aid kits will be provided to employees at no cost to them.

Langan employees that render first aid in office areas will have access to hand washing facilities or restrooms. For first aid rendered at field locations, first aid kits will contain an appropriate antiseptic hand cleanser and clean cloth/paper towels or antiseptic towelettes. After using antiseptic hand cleansers or towelettes, employees shall wash their hands with soap and running water as soon as feasible.

After administering first aid, potentially infectious materials, including towels, personnel protective equipment, clothes and bandages, shall be placed in a container, which prevents leakage during collection, handling, processing, storage, transport, or shipping. All PPE will be dispose of after use. Any equipment or working surfaces which was been exposed to blood or potentially infectious materials due to an injury, will be decontaminated prior to reuse.

Langan will make available the hepatitis B vaccine and vaccination series to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure incident. These services will be available to the employee at no cost to them through a medical provider.

17.3.7.2 Recordkeeping

Langan will maintain training and medical records for each employee with occupational exposure to blood or potentially infectious materials. Medical and training records will be maintained by Langan's H&S Department.

Training records will include the following:

- Dates of the training sessions;
- Contents or a summary of the training sessions;
- Names and qualifications of persons conducting the training; and
- Names and job titles of all persons attending the training sessions.

Training records shall be maintained for 3 years from the date on which the training occurred. Medical records will be will be preserved and maintained for the duration of employment plus 30 years.

All records will be made available upon request to employees, the Assistant Secretary of Labor for Occupational Safety and Health, and Director of National Institute for Occupational Safety and Health Director of OSHA for examination and copying. Medical records must have written consent from employee before releasing.

If Langan ceases to do business, all records shall be transferred to the successor employer. The successor employer shall receive and maintain these records.

If there will not be a successor, Langan will notify current employees of their rights to access records at least three months prior to the cessation of business.

18.0 RECORDKEEPING

The following is a summary of required health and safety logs, reports and recordkeeping.

18.1 Field Change Authorization Request

Any changes to the work to be performed that is not included in the HASP will require an addendum that is approved by the Langan project manager and Langan HSM to be prepared. Approved changes will be reviewed with all field personnel at a safety briefing.

18.2 Medical and Training Records

Copies or verification of training (40-hour, 8-hour, supervisor, site-specific training, documentation of three-day OJT, and respirator fit-test records) and medical clearance for site work and respirator use will be maintained in the office and available upon request. Records for all subcontractor employees must also be available upon request. All employee medical records will be maintained by the HSM.

18.3 Onsite Log

A log of personnel on site each day will be kept by the HSO or designee.

18.4 Daily Safety Meetings ("Tailgate Talks")

Completed safety briefing forms will be maintained by the HSO.

18.5 Exposure Records

All personal monitoring results, laboratory reports, calculations and air sampling data sheets are part of an employee exposure record. These records will be maintained by the HSO during site work. At the end of the project they will be maintained according to 29 CFR 1910.1020.

18.6 Hazard Communication Program/MSDS-SDS

Material safety data sheets (MSDS) of Safety Data Sheets (SDS) have been obtained for applicable substances and are included in this HASP (Attachment D). Langan's written hazard communication program, in compliance with 29 CFR 1910.1200, is maintained by the HSM.

18.7 Documentation

Employees are required to contact WorkCare at (1-888-449-7787) to document incidents/injuries which are not medical emergencies. Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan incident/injury hotline at 973-560-4699 and the Project Manager to report the incident or near miss. The Project Manager will contact the client or client representative. A written report must be completed and submitted HSM within 24 hours of the incident. For emergencies involving personnel injury and/or exposure, employee will complete and submit the Langan incident/injury report to the Langan corporate health and safety manager as soon as possible following the incident. Accidents will be investigated in-depth to identify all causes and to recommend hazard control measures.

18.7.1 Accident and Injury Report Forms

18.7.1.1 Accident/Incident Report

All injuries, no matter how slight, shall be reported to the FTL and the PM immediately. The accident/incident report forms, attached in Attachment U and Attachment V will be filled out on all accidents by the applicable contractor supervision personnel, the FTL, or the HSO. Copies of all accident/incident reports shall be kept on-site and available for review. Project personnel will be instructed on the location of the first aid station, hospital, and doctor and ambulance service near the job. The emergency telephone numbers will be conspicuously posted in site vehicles near the work zone. First aid supplies will be centrally located and conspicuously posted between restricted and non-restricted areas to be readily accessible to all on the site.

18.7.1.2 First Aid Treatment Record

The forms in will be used for recording all non-lost time injuries treated by the project first-aid attendant, the local physician or hospital will be entered in detail on this record. "Minor" treatment of scratches, cuts, etc. will receive the same recording attention as treatment of more severe injuries.

18.7.1.3 OSHA Form 300

An OSHA Form 300 will be kept at the Langan Corporate Office in Parsippany, New Jersey. All recordable injuries or illnesses will be recorded on this form. Subcontractor employers must also meet the requirements of maintaining an OSHA 300 form. The Incident Report form used to capture the details of work-related injuries/illnesses meets the requirements of the OSHA Form 301 (supplemental record) and must be maintained with the OSHA Form 300 for all recordable injuries or illnesses. Forms for recording OSHA work-related injuries and illnesses are included in Attachment U and Attachment V.

19.0 CONFINED SPACE ENTRY

Confined spaces are not anticipated at the Site during planned construction activities. If confined spaces are identified, the contractor must implement their own confined space program that all applicable federal, state and local regulations. Confined spaces **will not** be entered by Langan personnel.

20.0 HASP ACKNOWLEDGEMENT FORM

All Langan personnel and contractors will sign this HASP Compliance Agreement indicating that they have become familiar with this HASP and that they understand it and agree to abide by it.

Printed Name	Signature	Company	Date

Printed Name	Signature	Company	Date

TABLES

TABLE 1

TASK HAZARD ANALYSES

Task	Hazard	Description	Control Measures	First Aid
1.3.1	Contaminated Soil or Groundwater-Dermal Contact	Contaminated water spills on skin, splashes in eyes; contact with contaminated soil/fill during construction activities or sampling.	Wear proper PPE; follow safe practices, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1	Lacerations, abrasions, punctures	Cutting bailer twine, pump tubing, acetate liners, etc. with knife; cuts from sharp site objects or previously cut piles, tanks, etc.; Using tools in tight spaces	Wear proper PPE; follow safe practices	Clean wound, apply pressure and/or bandages; seek medical attention as required.
1.3.1	Contaminated Media Inhalation	Opening drums, tanks, wells; vapors for non-aqueous phase liquids or other contaminated site media; dust inhalation during excavation; vapor accumulation in excavation	Follow air monitoring plan; have quick access to respirator, do not move or open unlabeled drums found at the site, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1	Lifting	Improper lifting/carrying of equipment and materials causing strains	Follow safe lifting techniques; Langan employees are not to carry contractor equipment or materials	Rest, ice, compression, elevation; seek medical attention as required
1.3.1	Slips, trips, and falls	Slips, trips and falls due to uneven surfaces, cords, steep slopes, debris and equipment in work areas	Good housekeeping at site; constant awareness and focus on the task; avoid climbing on stockpiles; maintain safe distance from construction activities and excavations; avoid elevated areas over six feet unless fully accredited in fall protection and wearing an approved fall protection safety apparatus	Rest, ice, compression, elevation; seek medical attention as required
1.3.1	Noise	Excavation equipment, hand tools, drilling equipment.	Wear hearing protection; maintain safe distance from construction activities	Seek medical attention as required
1.3.1	Falling objects	Soil material, tools, etc. dropping from drill rigs, front-end loaders, etc.	Hard hats to be worn at all times while in work zones; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1	Underground/ overhead utilities	Excavation equipment, drill rig auger makes contact with underground object; boom touches overhead utility	"One Call" before dig; follow safe practices; confirm utility locations with contractor; wear proper PPE; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1	Insects (bees, wasps, hornet, mosquitoes, and spider)	Sings, bites	Insect Repellent; wear proper protective clothing (work boots, socks and light colored pants);field personnel who may have insect allergies (e.g., bee sting) should provide this information to the HSO or FSO prior to commencing work, and will have allergy medication on site.	Seek medical attention as required
1.3.1	Vehicle traffic / Heavy Equipment Operation	Vehicles unable to see workers on site, operation of heavy equipment in tight spaces, equipment failure, malfunctioning alarms	Wear proper PPE, especially visibility vest; use a buddy system to look for traffic; rope off area of work with cones and caution tape or devices at points of hazard, maintain safe distance from construction activities and equipment	Seek medical attention as required

TABLE 2

CONTAMINANT HAZARDS OF CONCERN

Chemical	Source	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
1,2,4-trimethylbenzene	Soil Vapor	---	---	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)
1,3,5-trimethylbenzene	Soil Vapor	25 ppm	---	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)
Acetone	Soil Soil Vapor	1,000 ppm	2,500 ppm	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis
Benzene	Soil Vapor	1 ppm	500 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritate eyes, skin, nose; respiratory system; giddiness; head, nausea, staggered gait; fatigue, anorexia, lassitude; dermatitis; bone marrow depression; [carcinogenic]
Toluene	Soil Vapor	200 ppm	500 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritate eyes, nose; fatigue, weakness, confusion, euphoria, dizziness, headache; dilated pupils, lacrimation; nervousness, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage; mucous membrane; narcosis, coma
Ethylbenzene	Soil Vapor	100 ppm	800 ppm (10% LEL)	Inhalation, Ingestion, skin and/or eye contact	Irritate eyes, skin, mucous membrane ;headache, dermatitis; narcosis, coma
Xylenes	Soil Soil Vapor	100 ppm	900 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritate eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corn vacuolization; anorexia, nausea, vomit, abdominal pain; dermatitis

Chemical	Source	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Tert-Butyl Methyl Ether	Groundwater Soil Vapor	40 ppm	---	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Upper respiratory tract irritation, kidney damage
Tetrachloroethylene	Soil Vapor	15 ppm	150 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Nausea, vomiting, abdominal pain, tremor fingers, jaundice, hepatitis, liver tenderness, dermatitis, monocytosis, kidney damage [potential occupational carcinogen]
Total Volatile Organics	Soil Groundwater Soil Vapor	15 ppm	150 ppm	Inhalation, Skin Absorption, Ingestion	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen]
3 & 4 Methylphenol (m&p Cresol)	Soil	5 ppm	250 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irreg rapid resp, weak pulse; eye, skin burns; dermatitis; lung, liver, kidney, pancreas damage
Acenaphthene	Soil	---	---	Inhalation, skin and/or eye contact	No Information Available
Anthracene	Soil	0.2 mg/mg^3	---	Inhalation, skin and/or eye contact	Dermatitis, bronchitis
Benzo(a)anthracene	Soil Groundwater	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Benzo(b)fluoranthene	Soil Groundwater	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Benzo(k)fluoranthene	Soil Groundwater	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough

Chemical	Source	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Benzo(a)pyrene	Soil Groundwater	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Chrysene	Soil Groundwater	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Dibenzo(a,h)anthracene	Soil	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Dibenzofuran					
Flouranthene	Soil	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Fluorene	Soil	---	---	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Indeno (1,2,3-cd) pyrene	Soil Groundwater	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Naphthalene	Soil	10 ppm	250 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Headache, dizziness, tiredness, nausea, vomiting
Phenanthrene	Soil	0.2 mg/mg^3	---	Inhalation, skin and/or eye contact	Dermatitis, bronchitis
Phenol	Soil	5 ppm	250 ppm	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine; cyanosis; liver, kidney damage; skin burns; dermatitis; ochronosis; tremor, convulsions, twitching

Chemical	Source	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Pyrene	Soil	0.2 mg/mg^3	80 mg/m^3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Pesticides	Soil	1 mg/mg^3	500 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]
Arsenic	Soil	0.010 mg/m^3	5 mg/m^3	Inhalation, Ingestion, Skin Absorption, Skin and/or Eye Contact	Ulceration of nasal septum, dermatitis, gastrointestinal disturbances, peripheral neuropathy, resp irritation, hyperpigmentation of skin, [potential occupational carcinogen]
Antimony	Groundwater	0.5 mg/m^3	50 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, mouth; cough; dizziness; headache; nausea, vomiting, diarrhea; stomach cramps; insomnia; anorexia; unable to smell properly
Barium	Soil	0.5 mg/m^3	50 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin, upper respiratory system; skin burns; gastroenteritis; muscle spasm; slow pulse, extrasystoles; hypokalemia
Cadmium	Soil	0.005 mg/m^3	9 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]

Chemical	Source	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Trivalent Chromium	Soil	5 mg/m^3	250 mg/m^3	Inhalation, Ingestion, Skin and/or Eye Contact	Irritation eyes, skin; lung fibrosis (histologic)
Copper	Soil	1 mg/m^3	100 mg/m^3	Inhalation, Ingestion, skin and/or eye contact	Irritation eyes, respiratory system; cough, dyspnea (breathing difficulty), wheezing; [potential occupational carcinogen]
Iron	Groundwater	10 mg/m^3	2,500 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Benign pneumoconiosis with X-ray shadows indistinguishable from fibrotic pneumoconiosis (siderosis)
Lead	Soil Groundwater	0.05 mg/mg^3	100 mg/mg^3	Inhalation, Ingestion, Skin and/or Eye Contact	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension
Magnesium	Groundwater	15 mg/m^3	750 mg/m^3	Inhalation, skin and/or eye contact	Irritation eyes, nose; metal fume fever: cough, chest pain, flu-like fever
Manganese	Groundwater	0.2 mg/m^3	500 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait.
Mercury	Soil Groundwater	0.1 mg/m^3	10 mg/m^3	Inhalation, Ingestion, Skin Absorption, Skin and/or Eye Contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria

Chemical	Source	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Nickel	Soil	1 mg/m^3	10 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria
Selenium	Soil	0.2 mg/m^3	1 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat; visual disturbance; headache; chills, fever; dyspnea (breathing difficulty), bronchitis; metallic taste, garlic breath, gastrointestinal disturbance; dermatitis; eye, skin burns; In Animals: anemia; liver necrosis, cirrhosis; kidney, spleen damage
Silver	Soil	0.01 mg/m^3	10 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Eye/skin irritation, irritation to mouth, throat, stomach, watering/red eyes, irritated/red skin
Zinc	Soil	2 mg/m^3	50 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Chills, dry throat, sweet taste, fever, cough, nausea, vomiting, weakness, eye/skin irritation
Perflurooctanesulfonic Acid (PFOS)	Soil Groundwater	---	---	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	No Information Available
Perflurooctanoic Acid (PFOA)	Soil Groundwater	---	---	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	No Information Available

Chemical	Source	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Total PCBs	Soil	0.5 mg/m^3	5 mg/m^3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Eye/skin irritation, irritation to mouth, throat, stomach

–– No exposure limits listed in the NIOSH Pocket Guide to Chemical Hazards dated November 2010.

TABLE 3

Summary of Monitoring Equipment

Instrument	Operation Parameters
Photoionization Detector (PID)	**Hazard Monitored:** Many organic and some inorganic gases and vapors. **Application:** Detects total concentration of many organic and some inorganic gases and vapors. Some identification of compounds is possible if more than one probe is measured. **Detection Method:** Ionizes molecules using UV radiation; produces a current that is proportional to the number of ions. **General Care/Maintenance:** Recharge or replace battery. Regularly clean lamp window. Regularly clean and maintain the instrument and accessories. **Typical Operating Time:** 10 hours. 5 hours with strip chart recorder.
Oxygen Meter	**Hazard Monitored:** Oxygen (O_2). **Application:** Measures the percentage of O_2 in the air. **Detection Method:** Uses an electrochemical sensor to measure the partial pressure of O_2 in the air, and converts the reading to O_2 concentration. **General Care/Maintenance:** Replace detector cell according to manufacturer's recommendations. Recharge or replace batteries prior to explanation of the specified interval. If the ambient air is less than 0.5% C O_2, replace the detector cell frequently. **Typical Operating Time:** 8 – 12 hours.
Additional equipment (if needed, based on site conditions)	
Combustible Gas Indicator (CGI)	**Hazard Monitored:** Combustible gases and vapors. **Application:** Measures the concentration of combustible gas or vapor. **Detection Method:** A filament, usually made of platinum, is heated by burning the combustible gas or vapor. The increase in heat is measured. Gases and vapors are ionized in a flame. A current is produced in proportion to the number of carbon atoms present. **General Care/Maintenance:** Recharge or replace battery. Calibrate immediately before use. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.
Flame Ionization Detector (FID) with Gas Chromatography Option *(i.e., Foxboro Organic Vapor Analyzer (OVA))*	**Hazard Monitored:** Many organic gases and vapors (approved areas only). **Application:** In survey mode, detects the concentration of many organic gases and vapors. In gas chromatography (GC) mode, identifies and measures specific compounds. In survey mode, all the organic compounds are ionized and detected at the same time. In GC mode, volatile species are separated. **General Care/Maintenance:** Recharge or replace battery. Monitor fuel and/or combustion air supply gauges. Perform routine maintenance as described in the manual. Check for leaks. **Typical Operating Time:** 8 hours; 3 hours with strip chart recorder.
Potable Infrared (IR) Spectrophotometer	**Hazard Monitored:** Many gases and vapors. **Application:** Measures concentration of many gases and vapors in air. Designed to quantify one or two component mixtures. **Detection Method:** Passes different frequencies of IR through the sample. The frequencies absorbed are specific for each compound. **General Care/Maintenance:** As specified by the manufacturer.

Instrument	Operation Parameters
Direct Reading Colorimetric Indicator Tube	**Hazard Monitored:** Specific gas and vapors. **Application:** Measures concentration of specific gases and vapors. **Detection Method:** The compound reacts with the indicator chemical in the tube, producing a stain whose length or color change is proportional to the compound's concentration. **General Care/Maintenance:** Do not use a previously opened tube even if the indicator chemical is not stained. Check pump for leaks before and after use. Refrigerate before use to maintain a shelf life of about 2 years. Check expiration dates of tubes. Calibrate pump volume at least quarterly. Avoid rough handling which may cause channeling.
Aerosol Monitor	**Hazard Monitored:** Airborne particulate (dust, mist, fume) concentrations **Application:** Measures total concentration of semi-volatile organic compounds, PCBs, and metals. **Detection Method:** Based on light-scattering properties of particulate matter. Using an internal pump, air sample is drawn into the sensing volume where near infrared light scattering is used to detect particles. **General Care/Maintenance:** As specified by the mfr. Also, the instrument must be calibrated with particulates of a size and refractive index similar to those to be measured in the ambient air.
Monitox	**Hazard Monitored:** Gases and vapors. **Application:** Measures specific gases and vapors. **Detection Method:** Electrochemical sensor relatively specific for the chemical species in question. **General Care/Maintenance:** Moisten sponge before use; check the function switch; change the battery when needed.
Gamma Radiation Survey Instrument	**Hazard Monitored:** Gamma Radiation. **Application:** Environmental radiation monitor. **Detection Method:** Scintillation detector. **General Care/Maintenance:** Must be calibrated annually at a specialized facility. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.

TABLE 4

INSTRUMENTATION ACTION LEVELS

Photoionization Detector Action Levels	**Action Required**
Background to 5 ppm	No respirator; no further action required
> 1 ppm but < 5 ppm for > 5 minutes	1. Temporarily discontinue all activities and evaluate potential causes of the excessive readings. If these levels persist and cannot be mitigated (i.e., by slowing drilling or excavation activities), contact HSO to review conditions and determine source and appropriate response action. 2. If PID readings remain above 1 ppm, temporarily discontinue work and upgrade to Level C protection. 3. If sustained PID readings fall below 1 ppm, downgrading to Level D protection may be permitted.
> 5 ppm but < 150 ppm for > 5 minutes	1. Discontinue all work; all workers shall move to an area upwind of the jobsite. 2. Evaluate potential causes of the excessive readings and allow work area to vent until VOC concentrations fall below 5 ppm. 3. Level C protection will continue to be used until PID readings fall below 1 ppm.
> 150 ppm	Evacuate the work area

Notes:
1. 1 ppm level based on OSHA Permissible Exposure Limit (PEL) for benzene.
2. 5 ppm level based on OSHA Short Term Exposure Limit (STEL) maximum exposure for benzene for any 15 minute period.
3. 150 ppm level based on NIOSH Immediately Dangerous to Life and Health (IDLH) for tetrachloroethylene.

TABLE 5

EMERGENCY NOTIFICATION LIST

ORGANIZATION	CONTACT	TELEPHONE
Local Police Department	NYPD	911
Local Fire Department	NYFD	911
Ambulance/Rescue Squad	NYFD	911
Hospital	Harlem Hospital Center	911 or 212-939-1000
WorkCare		888-449-7787
Langan Incident Hotline		973-560- 4699
Medical Treatment Hotline	Incident Intervention	888-449-7787
Langan Environmental PM	Amanda Forsburg	973-560-4574
Langan Health and Safety Manager (HSM)	Tony Moffa	215-756-2523 (cell)
Langan Health & Safety Officer (HSO)	Allyson Kritzer	973-560-4289
Langan Field Team Leader (FTL)	To Be Determined	
Client Representative	Pavit Sabharwal	646-934-9380
National Response Center (NRC)		800-424-8802
Chemical Transportation Emergency Center (Chemtrec)		800-424-9300
Center for Disease Control (CDC)		404-639-3534
EPA (RCRA Superfund Hotline)		800-424-9346
TSCA Hotline		202-554-1404
Poison Control Center		800-222-1222

Immediately following an injury, unless immediate emergency medical treatment is required, the injured employee must contact Incident Intervention® at 888-449-7787.

For all other incidents or near misses, unless emergency response is required, either the employee or a coworker must contact the Langan Incident Hotline at 973-560-4699.

TABLE 6
SUGGESTED FREQUENCY OF PHYSIOLOGICAL MONITORING FOR FIT AND ACCLIMATED WORKERS[A]

Adjusted Temperature[b]	Normal Work Ensemble[c]	Impermeable Ensemble
90°F or above (32.2°C) or above	After each 45 min. of work	After each 15 min. of work
87.5°F (30.8°-32.2°C)	After each 60 min. of work	After each 30 min. of work
82.5°-87.5°F (28.1°-30.8°C)	After each 90 min. of work	After each 60 min. of work
77.5°-82.5°F (25.3°-28.1°C)	After each 120 min. of work	After each 90 min. of work
72.5°-77.5°F (22.5°-25.3°C)	After each 150 min. of work	After each 120 min. of work

a For work levels of 250 kilocalories/hour.

b Calculate the adjusted air temperature (ta adj) by using this equation: ta adj ^{o}F = ta ^{o}F + (13 x % sunshine). Measure air temperature (ta) with a standard mercury-in-glass thermometer, with the bulb shielded from radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

c A normal work ensemble consists of cotton coveralls or other cotton clothing with long sleeves and pants.

TABLE 7

HEAT INDEX

ENVIRONMENTAL TEMPERATURE (Fahrenheit)

RELATIVE HUMIDITY	70	75	80	85	90	95	100	105	110	115	120
	APPARENT TEMPERATURE*										
0%	64	69	73	78	83	87	91	95	99	103	107
10%	65	70	75	80	85	90	95	100	105	111	116
20%	66	72	77	82	87	93	99	105	112	120	**130**
30%	67	73	78	84	90	96	104	113	123	**135**	**148**
40%	68	74	79	86	93	101	110	123	**137**	**151**	
50%	69	75	81	88	96	107	120	**135**	**150**		
60%	70	76	82	90	100	114	**132**	**149**			
70%	70	77	85	93	106	124	**144**				
80%	71	78	86	97	113	**136**					
90%	71	79	88	102	122						
100%	72	80	91	108							

*Combined Index of Heat and Humidity...what it "feels like" to the body
Source: National Oceanic and Atmospheric Administration

How to use Heat Index:
1. Across top locate Environmental Temperature
2. Down left side locate Relative Humidity
3. Follow across and down to find Apparent Temperature
4. Determine Heat Stress Risk on chart at right

Note: Exposure to full sunshine can increase Heat Index values by up to 15 degrees F.

Apparent Temperature	Heat Stress Risk with Physical Activity and/or Prolonged Exposure
90-105	Heat Cramps or Heat Exhaustion Possible
105-130	Heat Cramps or Heat Exhaustion Likely, Heat Stroke Possible
>130	Heatstroke Highly Likely

FIGURES

FIGURE 1

Site Location Map

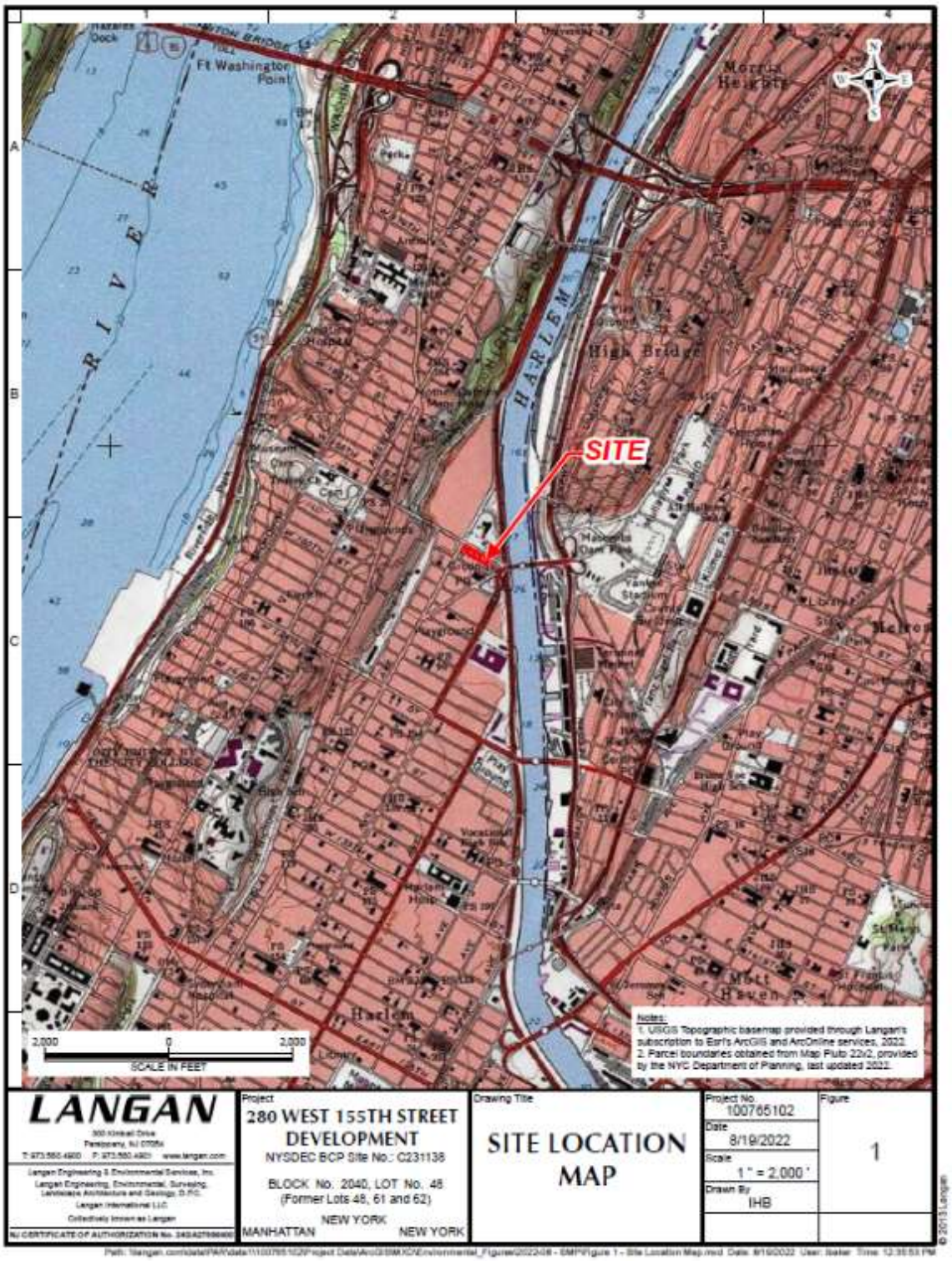


FIGURE 2

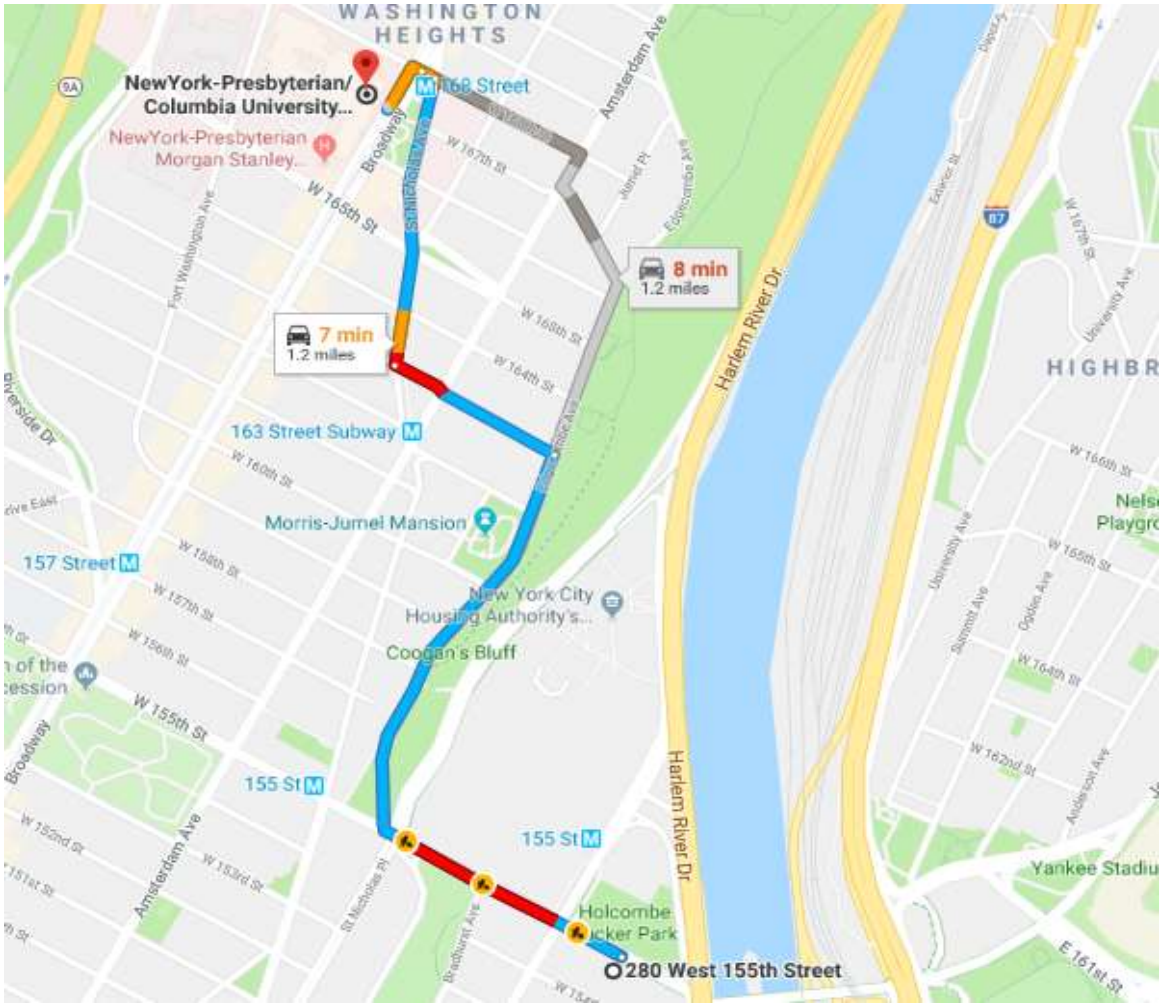
HOSPITAL ROUTE PLAN

Hospital Location: New York Presbyterian Emergency Room
622 168th Street
New York, New York
212-305-6204

START: 2926 Frederick Douglass Boulevard

1. Head northwest on West 155th Street towards Edgecombe Avenue
2. Turn right onto Edgecombe Avenue
3. Turn left onto West 163rd Street
4. Turn right onto St Nicholas Ave
5. Turn left onto W 168th Street
6. Turn left at the 1st cross street on Broadway, destination will be on the right

END: New York Presbyterian Emergency Room 622 168th Street New York, NY



ATTACHMENT A

STANDING ORDERS

STANDING ORDERS

GENERAL

- No smoking, eating, or drinking in this work zone.
- Upon leaving the work zone, personnel will thoroughly wash their hands and face.
- Minimize contact with contaminated materials through proper planning of work areas and decontamination areas, and by following proper procedures. Do not place equipment on the ground. Do not sit on contaminated materials.
- No open flames in the work zone.
- Only properly trained and equipped personnel are permitted to work in potentially contaminated areas.
- Always use the appropriate level of personal protective equipment (PPE).
- Maintain close contact with your buddy in the work zone
- Contaminated material will be contained in the Exclusion Zone (EZ).
- Report any unusual conditions.
- Work areas will be kept clear and uncluttered. Debris and other slip, trip, and fall hazards will be removed as frequently as possible.
- The number of personnel and equipment in the work zone will be kept to an essential minimum.
- Be alert to the symptoms of fatigue and heat/cold stress, and their effects on the normal caution and judgment of personnel.
- Conflicting situations which may arise concerning safety requirements and working conditions must be addressed and resolved quickly by the site HSO.

TOOLS AND HEAVY EQUIPMENT

- Do not, under any circumstances, enter or ride in or on any backhoe bucket, materials hoist, or any other device not specifically designed to carrying passengers.
- Loose-fitting clothing or loose long hair is prohibited around moving machinery.
- Ensure that heavy equipment operators and all other personnel in the work zone are using the same hand signals to communicate.
- Drilling/excavating within 10 feet in any direction of overhead power lines is prohibited.
- The locations of all underground utilities must be identified and marked out prior to initiating any subsurface activities.
- Check to insure that the equipment operator has lowered all blades and buckets to the ground before shutting off the vehicle.
- If the equipment has an emergency stop device, have the operator show all personnel its location and how to activate it.
- Help the operator ensure adequate clearances when the equipment must negotiate in tight quarters; serve as a signalman to direct backing as necessary.
- Ensure that all heavy equipment that is used in the Exclusion Zone is kept in that zone until the job is done, and that such equipment is completely decontaminated before moving it into the clean area of the work zone.
- Samplers must not reach into or get near rotating equipment such as the drill rig. If personnel must work near any tools that could rotate, the equipment operator must completely shut down the rig prior to initiating such work. It may be necessary to use a remote sampling device.

ATTACHMENT B

DECONTAMINATION PROCEDURES

PERSONNEL DECONTAMINATION

LEVEL C DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Canister or Mask Change	4. If worker leaves Exclusion Zone to change canister (or mask), this is the last step in the decontamination procedure. Worker's canister is exchanged, new outer gloves and boot covers donned, joints taped, and worker returns to duty.
Station 5:	Boot, Gloves and Outer Garment Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 6:	Face piece Removal	6. Face piece is removed (avoid touching face with fingers). Face piece deposited on plastic sheets.
Station 7:	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.

LEVEL D DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Boot, Gloves and Outer Garment Removal	4. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 5:	Field Wash	5. Hands and face are thoroughly washed. Shower as soon as possible.

EQUIPMENT DECONTAMINATION

GENERAL:

Equipment to be decontaminated during the project may include tools, monitoring equipment, respirators, sampling containers, laboratory equipment and drilling equipment.

All decontamination will be done by personnel in protective gear, appropriate for the level of decontamination, as determined by the site HSO. The decontamination work tasks will be split or rotated among support and work crews.

Depending on site conditions, backhoe and pumps may be decontaminated over a portable decontamination pad to contain wash water; or, wash water may be allowed to run off into a storm sewer system. Equipment needed may include a steam generator with high-pressure water, empty drums, screens, screen support structures, and shovels. Drums will be used to hold contaminated wash water pumped from the lined pit. These drums will be labeled as such.

Miscellaneous tools and equipment will be dropped into a plastic pail, tub, or other container. They will be brushed off and rinsed with a detergent solution, and finally rinsed with clean water.

MONITORING EQUIPMENT:

Monitoring equipment will be protected as much as possible from contamination by draping, masking, or otherwise covering as much of the instruments as possible with plastic without hindering the operation of the unit. The PID, HNu or OVA meter, for example, can be placed in a clear plastic bag, which allows reading of the scale and operation of knobs. The probes can be partially wrapped keeping the sensor tip and discharge port clear.

The contaminated equipment will be taken from the drop area and the protective coverings removed and disposed in the appropriate containers. Any dirt or obvious contamination will be brushed or wiped with a disposable paper wipe.

RESPIRATORS:

Respirators will be cleaned and disinfected after every use. Taken from the drop area, the masks (with the cartridges removed and disposed of with other used disposable gear) will be immersed in a cleaning solution and scrubbed gently with a soft brush, followed by a rinse in plain warm water, and then allowed to air dry. In the morning, new cartridges will be installed. Personnel will inspect their own masks for serviceability prior to donning them. And, once the mask is on, the wearer will check the respirator for leakage using the negative and positive pressure fit check techniques.

ATTACHMENT C

EMPLOYEE EXPOSURE/ INJURY INCIDENT REPORT

EMPLOYEE INCIDENT/INJURY REPORT
LANGAN ENGINEERING & ENVIRONMENTAL SERVICES

(Complete and return to Tony Moffa in the Doylestown Office)

Affected Employee Name: _____ Date: _____

Incident type: ☐ Injury ☐ Report Only/No Injury
☐ Near Miss ☐ Other: _____

EMPLOYEE INFORMATION (Person completing Form)

Employee Name: _____ Employee No: _____

Title: _____ Office Location: _____

Length of time employed or date of hire: _____

Mailing address:

_____

_____

Sex: M ☐ F ☐ Birth date: _____

Business phone & extension: _____ Residence/cell phone: _____

ACCIDENT INFORMATION

Project: _____ Project #: _____

Date & time of incident: _____ Time work started & ended: _____

Site location: _____

Incident Type: Possible Exposure ☐ Exposure ☐ Physical Injury ☐

Names of person(s) who witnessed the incident:

Exact location incident occurred:

Describe work being done:

Describe what affected employee was doing prior to the incident occurring:

Describe in detail how the incident occurred:

Nature of the incident (List the parts of the body affected):

Person(s) to whom incident was reported (Time and Date):

List the names of other persons affected during this incident:

Possible causes of the incident (equipment, unsafe work practices, lack of PPE, etc.):

_____

_____

Weather conditions during incident:

_____

MEDICAL CARE INFORMATION

Did affected employee receive medical care? Yes ☐ No ☐

If Yes, when and where was medical care received:

_____

Provide name of facility (hospital, clinic, etc.):

_____

Length of stay at the facility?

_____

Did the employee miss any work time? Yes ☐ No ☐ Undetermined ☐

Date employee last worked: _____
Date employee returned to work:_____

Has the employee returned to work? Yes ☐ No ☐

Does the employee have any work limitations or restrictions from the injury? : Yes ☐ No ☐

If Yes, please describe:

_____

_____

Did the exposure/injury result in permanent disability? Yes ☐ No ☐ Unknown ☐

If Yes, please describe:

_____

HEALTH & SAFETY INFORMATION

Was the operation being conducted under an established site specific CONSTRUCTION HEALTH AND SAFETY PLAN?

Yes ☐ No ☐ Not Applicable: ☐

Describe protective equipment and clothing used by the employee:

Did any limitations in safety equipment or protective clothing contribute to or affect exposure / injury? If so, explain:

Employee Signature

Date

Langan Representative

Date

ATTACHMENT D

CALIBRATION LOG

DATE:________________ **PROJECT:____________________**

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrat. Reading	Performed By:

DATE:________________   PROJECT:____________________

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrat. Reading	Performed By:

DATE:________________ PROJECT:____________________

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrat. Reading	Performed By:

DATE:________________ **PROJECT:____________________**

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrat. Reading	Performed By:

ATTACHMENT E

MATERIAL SAFETY DATA SHEETS

SAFETY DATA SHEETS

All Langan Field Personnel Completing This Work Plan Are To Have Real Time Accessibility To Material Safety Data Sheet (MSDs) or Safety Data Sheet (SDSs) Through Their Smart Phone.

The link is http://www.msds.com/
The login name is "drapehead"
The password is "2angan987"

If You Are Unable To Use the Smart Phone App, You Are To Bring Printed Copies of the MSDs/SDSs to the Site

ATTACHMENT F

JOBSITE SAFETY INSPECTION CHECKLIST

Jobsite Safety Inspection Checklist

Date: _____ **Inspected By:** _____

Location: _____ **Project #:** _____

Check one of the following: **A:** Acceptable **NA**: Not Applicable **D**: Deficiency

	A	NA	D	Remark
1. HASP available onsite for inspection?				
2. Health & Safety Compliance agreement (in HASP) appropriately signed by Langan employees and contractors?				
3. Hospital route map with directions posted on site?				
4. Emergency Notification List posted on site?				
5. First Aid kit available and properly stocked?				
6. Personnel trained in CPR/First Aid on site?				
7. MSDSs readily available, and all workers knowledgeable about the specific chemicals and compounds to which they may be exposed?				
8 Appropriate PPE being worn by Langan employees and contractors?				
9. Project site safe practices ("Standing Orders") posted?				
10. Project staff have 40-hr./8-hr./Supervisor HAZWOPER training?				
11. Project staff medically cleared to work in hazardous waste sites and fit-tested to wear respirators, if needed?				
12. Respiratory protection readily available?				
13. Health & Safety Incident Report forms available?				
14. Air monitoring instruments calibrated daily and results recorded on the Daily Instrument Calibration check sheet?				
15. Air monitoring readings recorded on the air monitoring data sheet/field log book?				
16. Subcontract workers have received 40-hr./8-hr./Spvsr. HAZWOPER training, as appropriate?				
17. Subcontract workers medically cleared to work on site, and fit-tested for respirator wear?				
18. Subcontract workers have respirators readily available?				
19. Mark outs of underground utilities done prior to initiating any subsurface activities?				
20. Decontamination procedures being followed as outlined in HASP?				
21. Are tools in good condition and properly used?				
22. Drilling performed in areas free from underground objects including utilities?				

23. Adequate size/type fire extinguisher supplied?				
24. Equipment at least 20 feet from overhead powerlines?				
25. Evidence that drilling operator is responsible for the safety of his rig.				
26. Trench sides shored, layer back, or boxed?				
27. Underground utilities located and authorities contacted before digging?				
28. Ladders in trench (25-foot spacing)?				
29. Excavated material placed more than 2 feet away from excavation edge?				
30. Public protected from exposure to open excavation?				
31. People entering the excavation regarding it as a permit-required confined space and following appropriate procedures?				
32. Confined space entry permit is completed and posted?				
33. All persons knowledgeable about the conditions and characteristics of the confined space?				
34. All persons engaged in confined space operations have been trained in safe entry and rescue (non-entry)?				
35. Full body harnesses, lifelines, and hoisting apparatus available for rescue needs?				
36. Attendant and/or supervisor certified in basic first aid and CPR?				
37. Confined space atmosphere checked before entry and continuously while the work is going on?				
38. Results of confined space atmosphere testing recorded?				
39. Evidence of coordination with off-site rescue services to perform entry rescue, if needed?				
40. Are extension cords rated for this work being used and are they properly maintained?				
41. Are GFCIs provided and being used?				

Unsafe Acts: _____

_____

_____

_____

Notes: _____

_____

_____

_____

ATTACHMENT G

JOB SAFETY ANALYSIS FORM

LANGAN	Job Safety Analysis (JSA) Health and Safety
JSA TITLE: **JSA NUMBER:**	**DATE CREATED:** **CREATED BY**: **REVISION DATE:** **REVISED BY:**

Langan employees must review and revise the Job Safety Analysis (JSA) as needed to address the any site specific hazards not identified. Employees must provide their signatures on the last page of the JSA indicating they have review the JSA and are aware the potential hazards associated with this work and will follow the provided preventive or corrective measures.

PERSONAL PROTECTIVE EQUIPMENT REQUIRED: (PPE): ■ Required ☒ As Needed		
☐ Steel-toed boots	☐ Nitrile gloves	☐ Dermal Protection (Specify)
☐ Long-sleeved shirt	☐ Leather/ Cut-resistant gloves	☐ High visibility vest/clothing
☐ Safety glasses	☐Face Shield	☐ Hard hat
ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT NEEDED (Provide specific type(s) or descriptions)		
☐ Air Monitoring:	☐ Respirators:	☐ Other:

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE OR CORRECTIVE ACTION
1.	1. 2.	1a. 1b. 2a. 2b.
2.	1.	1
Additional items identified in the field.		
Additional Items.		

If additional items are identified during daily work activities, please notify all relevant personnel about the change and document on this JSA.

LANGAN	**Job Safety Analysis (JSA)** **Health and Safety**
JSA Title: COVID-19 Awareness – Site Work **JSA Number: JSA046-00**	
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Boots	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☐ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Alcohol-based hand sanitizer, disinfectant wipes/spray				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. All Activities	1. Transmittal/exposure of COVID-19	1. Ask yourself and your managers – is this work essential? Can this be done remotely? 2. Stay home if sick or showing symptoms of COVID-19 (e.g. fever, cough, etc.). 3. Carry nitrile gloves, alcohol-based hand sanitizer, and disinfectant wipes/spray during field work. 4. Check federal, state, and/or local travel restrictions **prior** to travel. Many states, counties, and cities are passing strict "shelter-in-place" or business restrictions in response to COVID-19. 5. Immediately notify Beverly Williams or Rory Johnston (Supervisor if employee chooses) if you display symptoms of COVID-19. Symptoms include fever (over 100.4 F), cough, and shortness of breath. 6. Notify Beverly Williams or Rory Johnston, Supervisor and Coronavirus Task Force if you had close contact with an individual who tested positive or displayed symptoms of COVID-19. 7. Do not touch your face, to the extent possible. 8. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. Avoid gatherings of more than 10 people. Limit, to the extent possible, contact with public items/objects.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		9. Clean your hands frequently with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, sneezing, or using the rest room. 10. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry. 11. Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. 12. Clean and disinfect frequently touched surfaces daily, for example, cell phones, computer equipment, headsets, tables, doorknobs, light switches, countertops, handles, desks, toilets, faucets, and sinks.
2. Travel to Jobsite	1. Transmittal/exposure of COVID-19 between passengers 2. Transmittal/exposure of COVID-19 from previous occupants (rental and fleet vehicles) 3. Transmittal/exposure of COVID-19 while refueling	1. Limit the number of occupants to each vehicle to 2 people. Employees should sit as far away from each other as possible. 2. Disinfect high "hand-traffic" areas of the vehicle: Door handles, steering wheel, turn signal and control rods, dashboard controls, seatbelts, armrests, etc. To the extent possible, do not use recycled air for heat/AC and travel with the windows open. 3. Use hand sanitizer before and after pumping gas and only return to the inside of the vehicle after refueling is complete. 4. Wear nitrile gloves if available or disinfect the key pad, pump handle, and fuel grade button prior to use.
3. Conduct Tailgate Safety Meeting & Complete H&S Paperwork	1. Transmittal/exposure of COVID-19 between meeting participants	1. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. 2. Hold meetings outside and keep in mind wind direction. To the extent possible, remain cross-wind from other people. 3. Designate a single person to maintain sign-in sheets/permits throughout the day to limit the passing of pens/clipboards between people. 4. Each person should complete their own JSA, even if they are completing similar tasks as others in order to limit the passing of paper/pens/clipboards between people. 5. Include COVID-19 topics and prevention measures in safety meetings.
4. Conduct Site Work	1. Transmittal/exposure of COVID-19 between site workers and public.	1. Practice social distancing maintaining 6 feet of distance between yourself and others. 2. To the extent possible, do not interact with the public. If it is necessary, politely explain you are practicing social distance and request they stay at least 6 feet away and they do not attempt to pass objects to you. 3. Wear nitrile gloves during site work underneath the appropriate gloves for your task. Utilize appropriate decontamination procedures, securely bag all waste (including nitrile gloves) generated during site work and dispose of. 4. Do not share tools. Each person should be equipped with the tools to complete their task or tasks should be divided to remove the need to share tools. If tools must be shared, surfaces should be disinfected. 5. Clean and disinfect surfaces of rental tools and equipment upon receipt. To the extent possible rent equipment from Langan's internal equipment reservation center, where cleaning/disinfecting procedures can be verified.
5. Use of Construction Trailers	1. Transmittal/exposure of COVID-19 between site workers and others.	1. Avoid use of shared trailers, if possible. Minimize trailer use to essential personnel. 2. Practice social distancing; maintaining 6 feet of distance between yourself and others in trailer. 3. Clean and disinfect areas including desks, phones, chairs and other common areas, before and after use.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
6. Purchasing Food from a Restaurant	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. To the extent possible, bring your own food. 2. If you must visit a restaurant, call ahead for take-out or "contactless delivery". Do not dine in. When picking up food, follow guidelines for Job Step #8: Purchasing Supplies at Retail/Shipping Centers. 3. Wash hands before and after eating.
7. Smoking Cigarettes	1. Transmittal/exposure of COVID-19 by touching mouth with hands	1. Cigarette smokers maybe at greater risk of complications arising from COVID-19. Nicotine patches/lozenges/gum, smoking cessation programs, and prescription medications may aid in "kicking the habit" if you decide to quit. 2. Wash hands thoroughly before and after smoking. 3. Discard cigarette butts properly. Do not light cigarettes from others and do not give cigarettes to others.
8. Hotel Stay	1. Transmittal/exposure of COVID-19 from previous occupants, hotel staff, common areas.	1. Verify the hotel chain/brand has modified cleaning procedures to reflect risk of COVID-19. Most hotel companies have issued statements on their websites and in email blasts reflecting these new procedures. 2. Use the front door, and not peripheral entrances. Front doors of hotels are generally automatic. 3. Request ground floor room to avoid elevator use. 4. If elevator use is required, do not directly touch elevator buttons with your hands. Do not ride elevators with other people, to the extent possible. 5. Bring disinfecting wipes or sanitizing spray. Upon arrival, disinfect high "hand-traffic" areas of the hotel room: Door handles, light switches, shower/sink faucet handles, TV remote, curtain/blind handles. Clean these surfaces daily. 6. Place the "Do Not Disturb" Sign on your door to prevent people (housekeeping) from entering your room. 7. Avoid common spaces and hotel sponsored events where crowds will be present. 8. Confirm hotel cleaning procedures have been modified to address COVID-19. Confirm no COVID-19 cases have occurred in hotel
9. Purchasing Supplies at Retail/Shipping Centers	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. Plan your travel to limit the need to visit retail/shipping centers. 2. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. If the store is too crowded/small, consider visiting another store or returning at a different time. 3. Avoid high "hand-traffic" items/areas like door handles (i.e. use your shoulder, hip/butt, or open with a disposable napkin/paper towel), credit cards terminals (i.e. use Apple/Android pay if available), shopping carts/baskets (i.e. bring your own shopping bags), counter tops (i.e. ask clerk if you can hold the items while they are scanned) and bulk/buffet items (i.e. just avoid them). 4. Disinfect your hands before and after visiting a retail/shipping center.

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: General Construction Activities

JSA Number: JSA010-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. Transport equipment to work area	1. Back Strain 2. Slips/ Trips/ Falls 3. Traffic 4. Cuts/abrasions from equipment 5. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
2. Installation of piping from vapor wells to skid connections and from discharge piping to effluent stack	1. Pinch fingers when connecting pipes 2. Slips/ Trips/ Falls 3. Machinery Hazards	1. Wear proper PPE (leather gloves) 2. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint 3. Wear proper PPE (safety vest) / Maintain safe distance from operating machinery
3. Remediation equipment installation	1. Back strain when lifting heavy equipment 2. Slips/ Trips/ Falls 3. Traffic	1. Use proper lifting techniques / Use wheeled transport / Minimize distance to vehicle 2. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray pain 3. Wear proper PPE (safety vest)
4. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 7. High Noise levels	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas were overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Subsurface Investigation**

JSA Number: **JSA030-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):

☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Dielectric Overshoes, Sun Block				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Transport equipment to work area	1. Back/strain 2. Slip/Trip/Falls 3. Traffic 4. Cuts/abrasions/contusions from equipment 5. Accidents due to vehicle operations	1. Use proper lifting techniques/Use wheeled transport 2. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes) 5. Observe posted speed limits/ Wear seat belts at all times
6. Traffic	1. Hit by moving vehicle	1. Use traffic cones and signage/ Use High visibility traffic vests and clothing/ Caution tape when working near active roadways.
7. Field Work (drilling, resistivity testing, and inspection)	1. Biological Hazards: insects, rats, snakes, poisonous plants, and other animals 2. Heat stress/injuries 3. Cold Stress/injuries 4. High Energy Transmission Lines 5. Underground Utilities 6. Electrical (soil resistivity testing)	11. Inspect work area to identify biological hazards. Wear light colored long sleeve shirt and long pants/ Use insect repellant as necessary/ Beware of tall grass, bushes, woods and other areas where ticks may live/ Avoid leaving garbage on site to prevent attracting animals/ Identify and avoid contact with poisonous plants/Beware of rats, snakes, or stray animals. 12. Wear proper clothing (light colored)/ drink plenty of water/ take regular breaks/use sun block 13. Wear proper clothing/ dress in layers/ take regular breaks. 14. Avoid direct contact with high energy transmission lines/ position equipment at least 15 feet or as required by PSE&G from the transmission lines/ wear proper PPE (dielectric overshoes 15 kV minimum rating). 15. Call one-call service before performing intrusive field work/ Review utility mark-outs and available utility drawings (with respect to proposed work locations)/ Follow Underground Utility Guidelines

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		16. See AGI Sting R1 operating manual for specific concerns during operating instrument
8. All activities	11. Slips/ Trips/ Falls 12. Hand injuries, cuts or lacerations during manual handling of materials 13. Foot injuries 14. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	17. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 18. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 19. Wear Langan approved safety shoes 20. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 21. Wear high visibility clothing & vest / Use cones or signs to designate work area 22. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 23. Wear proper hearing protection 24. Wear hard hat / Avoid areas were overhead hazards exist. 25. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 26. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Health and Safety
JSA Title: Excavation Oversight **JSA Number:** JSA041-01 **A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.**	 **S** – ***Stop,*** *what has changed?* **T** – ***Think*** *about the task* **E** – ***Evaluate*** *potential hazards* **P** – ***Plan*** *safe approach* **S** - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
9. Transport equipment to work area	6. Back Strain 7. Slips/Trips/Falls 8. Traffic 9. Cuts/abrasions/contusions from equipment	6. Use proper lifting techniques / Use wheeled transport 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves, safety shoes)
10. Earth Moving Equipment	1. Equipment running over employee	1. Ensure you have direct line of sight with operator of equipment; don't walk behind equipment; maintain a safe distance away from equipment. 2. Wear proper PPE (high vis vest/clothing)
11. Excavation	4. Excavation collapse 5. Confined space 6. Soil	1. Use proper shoring/benching/sloping techniques; Ladder is properly situated in excavation; no water in excavation; competent person has inspected excavation prior to allow employees to enter. 2. Langan employees are not authorized to enter a confined space; 3. Soil and equipment is kept atleast 2 feet from edge of excavation
12. Excavated soil	1. Hazardous substances	1. Use proper equipment to monitor excavated soil for contaminates; ensure levels do not exceed PEL's for contaminates; Wear proper PPE
13. All activities	21. Slips/ Trips/ Falls 22. Hand injuries, cuts or lacerations during manual handling of materials 23. Foot injuries 24. Back injuries 25. Traffic	27. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 28. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 29. Wear proper PPE (Langan approved safety shoes)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	26. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 27. High Noise levels 28. Overhead hazards 29. Heat Stress/ Cold Stress 30. Eye Injuries	30. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 31. Wear high visibility clothing & vest / Use cones or signs to designate work area 32. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 33. Wear hearing protection 34. Wear hard hat / Avoid areas were overhead hazards exist. 35. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 36. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Field Sampling

JSA Number: JSA022-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):

☒ Safety Shoes	☒ Long Sleeves	☐ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
14. Unpack/Transport equipment to work area.	10. Back Strains 11. Slip/Trips/Falls 12. Cuts/Abrasions from equipment 13. Contusions from dropped equipment	10. Use proper lifting techniques/Use wheeled transport 11. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 12. Wear proper PPE (leather gloves, long sleeves). 13. Wear proper PPE (Langan approved safety shoes).
15. Initial Site Arrival-Site Assessment	2. Traffic	3. Situational awareness (be alert of your surroundings). Secure area from through traffic.
16. Surface Water Sampling	7. Contaminated media. Skin/eye contact with biological agents and/or chemicals.	4. Wear appropriate PPE (Safety glasses, appropriate gloves). Review (M)SDS for all chemicals being.
17. Sampling from bridges	1. Struck by vehicles	1. Wear appropriate PPE (Safety Vest). Use buddy system and orange safety cones.
18. Icing of Samples/ Transporting coolers/equipment from work area.	31. Back Strains 32. Slips/Trips/Falls 33. Cuts/Abrasions from equipment 34. Pinch/Crushing Hazards.	37. Drain coolers of water. Use proper lifting techniques. Use wheeled transport. 38. Have unobstructed path from work area. Aware of surroundings. 39. Wear proper PPE (Leather gloves, long sleeves) 40. Wear proper PPE (Leather gloves, long sleeves)
19. Site Departure	1. Contaminated PPE/Vehicle	1. Contaminated PPE should be disposed of on-site. Remove boots and soiled clothing for secure storage in trunk. Wash hands promptly.
20. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts or lacerations during manual handling of materials	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	3. Foot injuries 4. Back injuries 35. Traffic 36. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 37. High Noise levels 38. Overhead hazards 39. Heat Stress/ Cold Stress 40. Eye Injuries	2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 41. Wear high visibility clothing & vest / Use cones or signs to designate work area 42. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 43. Wear hearing protection 44. Wear hard hat / Avoid areas were overhead hazards exist. 45. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 46. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Equipment Transportation and Set-Up**

JSA Number: **JSA012-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):

☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
21. Transport equipment to work area	14. Back Strain 15. Slips/ Trips/ Falls 16. Traffic 17. Cuts/abrasions from equipment 18. Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
22. Moving equipment to its planned location	3. Pinch Hazard 4. Slips/ Trips/ Falls	4. Wear proper PPE (leather gloves) 5. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint
23. Equipment Set-up	8. Pinch Hazard 9. Cuts/abrasions to knuckles/hands 10. Back Strain	4. Wear proper PPE (leather gloves) 5. Wear proper PPE (leather gloves) 6. Use proper lifting techniques / Use wheeled transport
24. All activities	41. Slips/ Trips/ Falls 42. Hand injuries, cuts or lacerations during manual handling of materials 43. Foot injuries 44. Back injuries 45. Traffic 46. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 47. High Noise levels 48. Overhead hazards 49. Heat Stress/ Cold Stress	47. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 48. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 49. Wear Langan approved safety shoes 50. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 51. Wear high visibility clothing & vest / Use cones or signs to designate work area

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
7. All activities (cont'd)	50. Eye Injuries	52. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 53. Wear hearing protection 54. Wear hard hat / Avoid areas were overhead hazards exist. 55. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 56. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Excavation Oversight

JSA Number: JSA041-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
25. Transport equipment to work area	19. Back Strain 20. Slips/Trips/Falls 21. Traffic 22. Cuts/abrasions/contusions from equipment	14. Use proper lifting techniques / Use wheeled transport 15. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 16. Wear proper PPE (high visibility vest or clothing) 17. Wear proper PPE (leather gloves, long sleeves, safety shoes)
26.Earth Moving Equipment	5. Equipment running over employee	4. Ensure you have direct line of sight with operator of equipment; don't walk behind equipment; maintain a safe distance away from equipment. 5. Wear proper PPE (high vis vest/clothing)
27.Excavation	11. Excavation collapse 12. Confined space 13. Soil	5. Use proper shoring/benching/sloping techniques; Ladder is properly situated in excavation; no water in excavation; competent person has inspected excavation prior to allow employees to enter. 6. Langan employees are not authorized to enter a confined space; 7. Soil and equipment is kept at least 2 feet from edge of excavation
28.Excavated soil	1. Hazardous substances	1. Use proper equipment to monitor excavated soil for contaminates; ensure levels do not exceed PEL's for contaminates; Wear proper PPE
29. All activities	51. Slips/ Trips/ Falls 52. Hand injuries, cuts or lacerations during manual handling of materials 53. Foot injuries 54. Back injuries 55. Traffic 56. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 57. High Noise levels 58. Overhead hazards 59. Heat Stress/ Cold Stress	57. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 58. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 59. Wear proper PPE (Langan approved safety shoes) 60. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 61. Wear high visibility clothing & vest / Use cones or signs to designate work area

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	60. Eye Injuries	62. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 63. Wear hearing protection 64. Wear hard hat / Avoid areas were overhead hazards exist. 65. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 66. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: 55-gallon Drum Sampling

JSA Number: JSA043-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):

☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	

☒ Other: All Drums are required to be labeled. Langan employees do not open or move undocumented drums or unlabeled drums without proper project manager authorization.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
30. Unpack/Transport equipment to work area.	23. Back Strains 24. Slip/Trips/Falls 25. Cuts/Abrasions from equipment 4. Contusions from dropped equipment	18. Use proper lifting techniques/Use wheeled transport 19. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 20. Wear proper PPE (leather gloves, long sleeves). 4. Wear proper PPE (Langan approved safety shoes).
31. Open Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 2. Pressure from drums.	1. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 2. Open drum slowly to relieve pressure. Wear proper PPE: face shield and goggles; correct gloves; and over garments.
32. Collecting Soil/Fluid Sample	6. Irritation to eye from vapor, soil dust, or splashing 7. Irritation to exposed skin	6. Wear proper eye protection including safety glasses/ face shield/googles and when necessary, splash guard. If dust or vapor phase is present, wear appropriate safety breathing gear (1/2 mask or full face mask with correct filter) 7. Wear proper skin protection including nitrile gloves.
33. Closing Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid.	8. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches.
34. Moving Drums	2. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 3. Back Strains	2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 3. Use proper lifting techniques/Use wheeled transport

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
35. All activities	61. Slips/ Trips/ Falls 62. Hand injuries, cuts or lacerations during manual handling of materials 63. Foot injuries 64. Back injuries 65. Traffic 66. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 67. High Noise levels 68. Overhead hazards 69. Heat Stress/ Cold Stress 70. Eye Injuries	67. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 68. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 69. Wear Langan approved safety shoes 70. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 71. Wear high visibility clothing & vest / Use cones or signs to designate work area 72. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 73. Wear hearing protection 74. Wear hard hat / Avoid areas were overhead hazards exist. 75. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 76. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Site Inspection

JSA Number: JSA024-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☒ Rubber Boots
☒ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
36. Jobsite Pre-briefing	26. None	21. Review JSA, SOP's, and discuss hazards that may be present and control measures for present hazards while on-site.
2. Working near railroads	1. Passing Trains. 2. Slip/Trips/Falls.	1. Wear reflective vest/ Stay away from tracks/ Do not cross tracks within 10 ft. of train car or when there is a train within view/listen for train horn. 2. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones.
3. Walking around site	4. Uneven terrain 5. Wildlife: Stray animals, mice/rats, vectors (i.e. mosquitoes, bees, etc.) 6. Weather: Heat/cold stress 7. Slip/Trips/Falls 8. Foot injuries 9. Eye injuries	4. Pay attention to surrounding area (puddles, wet, frozen, uneven areas); Mark with cones or spray paint. 5. Use bug spray/ Avoid stray animals/Use repellant when needed. 6. Dress for the correct weather situation/ Use sunscreen or protective clothing in sunlight, layers in cold weather/ Drink plenty of fluids/ Take breaks when needed. 4. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones. 5. Wear proper PPE (Langan approved safety shoes)/ Change wet socks during cold weather. 6. Wear proper PPE (safety glasses/goggles).
4. Working near road	1. Passing vehicles 2. Slip/Trips/Falls	1. Wear reflective vest/ Stay away from roadway/ Use buddy system/ Place signage or cones when needed. 2. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones.
5. All activities	71. Slips/ Trips/ Falls 72. Hand injuries, cuts or lacerations during manual handling of materials 73. Foot injuries 74. Back injuries 75. Traffic	77. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 78. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 79. Wear Langan approved safety shoes

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	76. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 77. High Noise levels 78. Overhead hazards 79. Heat Stress/ Cold Stress 80. Eye Injuries	80. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 81. Wear high visibility clothing & vest / Use cones or signs to designate work area 82. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 83. Wear hearing protection 84. Wear hard hat / Avoid areas were overhead hazards exist. 85. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 86. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Building Construction Oversight**

JSA Number: **JSA006-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions.

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):

☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
37. Transport equipment to work area	27. Back Strain 28. Slips/ Trips/ Falls 29. Traffic 30. Cuts/abrasions from equipment 31. Contusions from dropped equipment	11. Use proper lifting techniques / Use wheeled transport 12. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 13. Wear proper PPE (high visibility vest or clothing) 14. Wear proper PPE (leather gloves, long sleeves) 15. Wear proper PPE (safety shoes)
38. Drilling/anchor bolt installation	8. Hazards associated with drilling, flying objects, heavy equipment, ground level hazards and dust 9. Slips/ Trips/ Falls 10. Hazards associated with concrete work	6. Maintain a safe distance from drilling operation / Wear proper PPE (hard hat, safety glasses, safety shoes, safety vest) 7. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint / Wear the proper PPE (safety shoes) 8. Maintain a safe distance from pouring operation
39. Steel building erection	14. Overhead hazards, falling objects 15. Pinching/crushing hazards	8. Wear proper PPE (hard had, safety glasses, safety vest) / Be aware of overhead hazards and maintain a safe distance of at least 10 ft. 9. All personnel should make others aware of moving objects or their inten to move objects / Avoid areas where pinching and crushing hazards are possible
40. All activities	81. Slips/ Trips/ Falls 82. Hand injuries, cuts or lacerations during manual handling of materials 83. Foot injuries 84. Back injuries	87. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 88. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	85. Traffic 86. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 87. High Noise levels 88. Overhead hazards 89. Heat Stress/ Cold Stress 90. Eye Injuries	89. Wear Langan approved safety shoes 90. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 91. Wear high visibility clothing & vest / Use cones or signs to designate work area 92. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 93. Wear hearing protection 94. Wear hard hat / Avoid areas were overhead hazards exist. 95. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 96. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

ATTACHMENT H

TAILGATE SAFETY BRIEFING FORM

LANGAN TAILGATE SAFETY BRIEFING

Date:_____ Time: _____

Leader:_____ Location:_____

Work Task:

_____

_____

SAFETY TOPICS (*provide some detail of discussion points*)

Chemical Exposure Hazards and Control:_____

_____

Physical Hazards and Control: _____

Air Monitoring: _____

PPE: _____

Communications:_____

Safe Work Practices: _____

_____

Emergency Response: _____

Hospital/Medical Center Location: _____

Phone Nos.: _____

Other: _____

FOR FOLLOW-UP (the issues, responsibilities, due dates, etc.**)**

_____

_____

_____

ATTENDEES

PRINT NAME	COMPANY	SIGNATURE

APPENDIX G

COMMUNITY AIR MONITORING PLAN

LANGAN

New York State Department of Health Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area and when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.
Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required at one upwind and two downwind stations for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a **continuous** bases or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background

conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m3 of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m3 or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work with Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under “Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures” except that in this instance “nearby/occupied structures” would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.

APPENDIX H

SITE MANAGEMENT FORMS

SITE INSPECTION CHECKLIST

Site Name: 280 West 155th Street Development Project Number: 100765102

Location: 2926 Frederick Douglass Boulevard New York, New York

Inspector Name: _____ Date: _____ Weather Conditions: _____

Reason for Inspection (i.e., routine, severe condition, etc.): _____

Check one of the following:
(Y: Yes N: No N/A: Not Applicable)

		Y	N	N/A	Normal Situation	Remarks
	General					
1	What are the current site conditions?	-	-	-		
2	Are all applicable site records (e.g., documentation of construction activity, most current easement, etc.) complete and up to date?					
	Environmental Easement					
3	Has site use (restricted commercial remained the same?					
4	Does it appear that all environmental easement restrictions have been followed?					
	Impermeable Cap					
5	Are there any indications of a breach in the capping system at the time of this inspection?					
6	Are there any cracks in the building slabs?					
7	Are there any cracks in the building walls?					
8	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of this inspection?					
9	If YES to number 8, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?					

***** If the answer to any of the above questions indicate non-compliance with any Institutional Controls/Engineering Controls (ICs/ECs) for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.**

Additional remarks: _____

Minimum Inspection Schedule:
- Site-wide inspections will be conducted annually, per certification year, at a minimum.
- Additional inspections will also be conducted at times of severe weather condition events.
- All inspection events will use this checklist.

APPENDIX I

REMEDIAL SYSTEM OPTIMIZATION (RSO) REPORT OUTLINE

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REMEDIAL SYSTEM OPTIMIZATION REPORT

TABLE OF CONTENTS

1.0 INTRODUCTION

- 1.1 SITE OVERVIEW
- 1.2 PROJECT OBJECTIVES AND SCOPE OF WORK
- 1.3 REPORT OVERVIEW

2.0 REMEDIAL ACTION DESCRIPTION

- 2.1 SITE LOCATION AND HISTORY
- 2.2 REGULATORY HISTORY AND REQUIREMENTS
- 2.3 CLEAN-UP GOALS AND SITE CLOSURE CRITERIA
- 2.4 PREVIOUS REMEDIAL ACTIONS
- 2.5 DESCRIPTION OF EXISTING REMEDY
  - 2.5.1 System Goals and Objectives
  - 2.5.2 System Description
  - 2.5.3 Maintenance Program

3.0 FINDINGS AND OBSERVATIONS

- 3.1 SYSTEM PERFORMANCE
- 3.2 REGULATORY COMPLIANCE
- 3.3 MAJOR COST COMPONENTS OR PROCESSES
- 3.4 SAFETY RECORD

4.0 RECOMMENDATIONS

- 4.1 RECOMMENDATIONS TO ACHIEVE OR ACCELERATE SITE CLOSURE
  - 4.1.1 Source Reduction/Treatment
  - 4.1.2 Sampling
  - 4.1.3 Conceptual Site Model (Risk Assessment)
- 4.2 RECOMMENDATIONS TO IMPROVE PERFORMANCE
  - 4.2.1 Maintenance Improvements
  - 4.2.2 Monitoring Improvements
  - 4.2.3 Process Modifications
- 4.3 RECOMMENDATIONS TO REDUCE COSTS

4.3.1 Supply Management
4.3.2 Process Improvements or Changes
4.3.3 Optimize Monitoring Program
4.3.4 Maintenance and Repairs
4.4 RECOMMENDATIONS FOR IMPLEMENTATION