



Supplemental Investigation Work Plan

Skillman Street Station

Brooklyn, New York
NYSDEC Site #224068

Submitted to:

National Grid
2 Hanson Place
Brooklyn, NY 11271

Submitted by:

GEI Consultants, Inc. DBA GEI Consultants Engineering,
Geology, Architecture & Landscape Architecture
455 Winding Brook Drive
Glastonbury, CT 06033
860.368.5300

April 2025
Project No. 093080-2.11



Melissa Felter, PG, LEP
Project Manager

Matthew J. O'Neil, PE
Senior Engineer

Table of Contents

Qualified Environmental Professional's Certification	ii
--	----

Acronyms and Abbreviations	iii
----------------------------------	-----

1. Introduction.....	1
2. Scope of Work.....	3
2.1. Soil Borings	3
2.2. Soil Sampling	3
2.3. Horizontal Borings	4
2.4. Monitoring Well Installation	5
2.5. Groundwater Sampling	6
2.6. Investigation Derived Waste	6
2.7. Survey	6
2.8. Data Validation and Management	6
2.9. Report Preparation	7
3. Schedule	8

Tables

Table 1 Sample Descriptions, Rationale, and Analysis

Figures

Figure 1 Site Location Map

Figure 2 Property Boundaries and Sample Locations

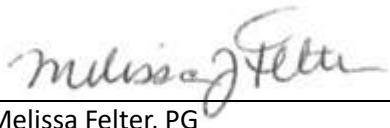
MF/MJO:bdp
B:\Working\NATIONAL GRID\093080 - NG-SKILLMAN\01_ADMIN\SRSOI Work Plan\20250430 Final to NYSDC\202504_093080 Skillman SRSOI Work Plan.docx

Qualified Environmental Professional's Certification

I, Melissa Felter, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31).

PREPARED BY:

GEI Consultants, Inc. DBA GEI Consultants Engineering,
Geology, Architecture & Landscape Architecture

A handwritten signature in dark ink, appearing to read "Melissa Felter", is positioned above a horizontal line.

Melissa Felter, PG

Acronyms and Abbreviations

CAMP	Community Air Monitoring Plan
DER	Division of Environmental Remediation
ELAP	Environmental Lab Approval Program
EPA	United States Environmental Protection Agency
FSP	Field Sampling Plan
GEI	GEI Consultants, Inc., DBA GEI Consultants Engineering, Geology, Architecture & Landscape Architecture
HASP	Health and Safety Plan
ISMP	Interim Site Management Plan
MGP	Manufactured Gas Plan
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	Photoionization Detector
PFAS	Polyfluoroalkyl Substances
PVC	Poly Vinyl Chloride
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
ROD	Record of Decision
RSOI	Remedial System Optimization Investigation
SC	Site Characterization
SI	Supplemental Investigation
SIM	Selected Ion Monitoring
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
USDOT	United State Department of Transportation
VOC	Volatile Organic Compound

1. Introduction

The Brooklyn Union Gas Company, now d/b/a National Grid NY (“National Grid”), entered into an Order on Consent and Administrative Settlement, Index # A2-0552-0606, (the Order) with New York State Department of Environmental Conservation (NYSDEC) in March 2007 (and last amended November 2023). This Order includes investigation and, if necessary, remediation of the Skillman Street Holder Station site (the Site), Site #224068, located in Brooklyn, Kings County, New York (Figure 1). As depicted in Figure 2, the Skillman Street Holder Station occupied Block 1886, Lot 19 and a 10-foot by 90-foot strip (the Bedford Strip) on Lot 44 on the City of New York Tax Map. The Order required that a Site Characterization be performed for the Site.

On behalf of National Grid, GEI Consultants, Inc. DBA GEI Consultants Engineering, Geology, Architecture & Landscape Architecture (GEI) completed the Site Characterization (SC), to assess environmental conditions at the Site, in March 2014. The Record of Decision was issued by NYSDEC in March 2015. An Interim Site Management Plan (ISMP) was prepared by GEI and submitted to NYSDEC in March 2017 and was approved by NYSDEC later that same month. Revision 6 of the ISMP was submitted to NYSDEC in May 2024.

Historically, two gas holders, identified as Holder No. 1 and Holder No. 2, were present at 7 Skillman Street. Holder No. 1 was comprised of three telescoping sections and had a rated capacity of 553,000 cubic feet. The sections were set in a subsurface, open, brick tank with a subgrade concrete foundation. The inner diameter of the tank is approximately 97 feet, and the maximum outside diameter, near the bottom of the tank, is approximately 105 feet. The bottom of the holder tank is approximately 22 feet below the elevation of Skillman Street. The tank had a convex bottom that is shallower in the center than at the perimeter. Holder No. 2 was comprised of three telescoping sections and had a rated capacity of 539,000 cubic feet. The sections were set in an aboveground, open, flat-bottomed, steel tank built on grade with Skillman Street. The inner diameter of the tank was approximately 92 feet, and the maximum outside diameter, at the top of the tank, was approximately 100 feet.

The property owner has submitted an application to transfer the Site into the Brownfield Cleanup Program (BCP) and has provided a redevelopment plan that includes a residential building with elevators and an underground parking garage. The deepest area of excavation is in the area of elevator pits and appears to be approximately 30 feet below ground surface. The property owner is looking to achieve at least Track 2 under the BCP.

On behalf of National Grid, GEI prepared this Supplemental Investigation (SI) Plan as required by the Record of Decision (ROD) dated March 2015. The ROD requires this investigation to determine the nature and extent of impacts at the Site and offsite. A Remedial System Optimization Investigation (RSOI) was implemented in May and June 2023. Despite the RSOI having been approved without identifying additional data gaps, during a phone call on October 1, 2024, NYSDEC stated that additional data would be necessary prior to implementing a remedy. This SI Work Plan is intended to fill data gaps identified during the 2023 RSOI, particularly in areas that were not accessible during previous investigations. The property owner has stated the building will not be demolished until the property is in the BCP. This SI,

together with the RSOI, fulfills the ROD requirement that in accordance with the Site Management Plan:
'... further investigation and remediation will occur if large-scale redevelopment takes place, existing structures are demolished, or the subsurface becomes accessible.'

2. Scope of Work

The SI will be conducted in accordance with the approved ISMP, Revision 6 dated May 2024, including the Health and Safety Plan (HASP), Quality Assurance Project Plan (QAPP), Field Sampling Plan (FSP), and Community Air Monitoring Plan (CAMP). The CAMP will be implemented at the Site during intrusive field activities.

2.1. Soil Borings

Fourteen soil borings (SSSB-24 through SSSB-37) are proposed for installation, as shown in Figure 2. Soil borings SSSB-24 through SSSB-26 and SSSB-29 through SSSB-31 are located in and around Holder No. 1. Soil borings SSSB-27, SSSB-28, and SSSB-35 through SSSB-37 are located within the footprint of Holder No. 2. Soil borings SSSB-32 through SSSB-34 are located north of the Site. Soil borings SSSB-24 through SSSB-30 and SSSB-32 through SSSB-35 and SSSB-37 will terminate at approximately 40 feet below grade. SSSB-36 will terminate at approximately 20 feet below grade. If visual or olfactory impacts, or photoionization detector (PID) readings above 5 parts per million (ppm) are observed within the bottom 10 feet, the boring will continue to be advanced 10 feet beyond observed impacts for the purpose of vertical delineation. Soil boring SSSB-31 will be installed within Holder No. 1 and will terminate at the bottom of the holder.

If impacts are observed at SSSB-24, 29, or 30, additional step out borings will be installed approximately 20 feet away for delineation.

Actual drilling locations will be determined based upon the subsurface utility clearance activities, including a geophysical survey, permanent above-ground structures, and property owner requirements. Each boring location will be hand cleared for utilities to at least 5 feet below grade and will be installed with a Geoprobe or Sonic rig in accordance with drilling methods and procedures in the FSP.

Following the collection of subsurface soil samples, each subsurface soil boring will be abandoned by tremie grouting the boring from the bottom of the boring to the top. Drilling and sampling equipment will be decontaminated between each sample location as described in the FSP. Soil cuttings and decontamination fluids will be contained within United States Department of Transportation (USDOT) 55-gallon drums and disposed at a National Grid-approved disposal facility.

2.2. Soil Sampling

Up to four soil samples will be selected for chemical analysis from borings SSSB-24 through SSSB-30, SSSB-32 through SSSB-35, and SSSB-37. The first sample will be collected from the depth interval indicating the greatest degree of contamination from 0 to approximately 5 feet below grade using a hand auger during utility clearance activities to evaluate subsurface soil conditions at and below the bottom of the holder foundation. A second sample will be collected at the base of the holder at approximately 20 to 25 feet below grade. The third sample will be collected beneath impacts, if present, or at the completion of the boring with the intent to identify soil that meets the Unrestricted SCOs. A fourth

sample will be collected at the depth interval indicating the greatest degree of contamination to evaluate the magnitude of the observed impacts at each boring. The greatest degree of contamination will be identified by field screening of the borings with a PID, and by visual and olfactory observations. If no impacts are observed at a particular on-site boring location, the fourth soil sample will not be collected. Borings SSSB-26, SSSB-27, SSSB-35, and SSSB-37 will include an additional sample at the 10 to 15-foot depth range. Each sample will be analyzed for Target Compound List (TCL) VOCs by EPA Methods 8260D, TCL SVOCs by EPA Method 8270E, and TAL metals by EPA Methods 6000/7000 series (Table 1).

One soil sample will be collected at boring SSSB-36 from 10 to 15 feet and analyzed for TAL metals by EPA Methods 6000/7000 series and TCL SVOCs by EPA Method 8270E.

Select locations will include a full suite of soil analyses to account for the site's possible transfer into the BCP. Boring locations SSSB-25, SSSB-27, SSSB-29, and SSSB-32 will be additionally analyzed for PCBs by EPA Method 8082, pesticides by EPA Method 8081, herbicides by EPA Method 8151, 1,4-dioxane by EPA Method 8270, free cyanide by EPA Method 9014, and PFAS by EPA Method 1633.

One soil sample will be collected from boring SSSB-31 from the bottom 5-foot interval of the boring for waste characterization analysis. Additional samples for waste characterization analysis will be collected from soil borings SSSB-24, SSSB-28, and SSSB 33. These samples will be collected in the top 5 feet and at the depth interval indicating the greatest degree of contamination. Waste characterization samples will be analyzed for TCL VOCs by EPA Methods 8260D, TCL SVOCs by EPA Method 8270E, TAL metals by EPA Methods 6000/7000 series, PCBs, EPH, sulfur, and TCLP analysis (VOCs, SVOCs, RCRA metals, pesticides, and herbicides).

Quality Assurance/Quality Control (QA/QC) procedures are detailed within the QAPP. QA/QC samples will include blind duplicate soil samples, Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples, and equipment rinsate blank samples. The quality control samples will be completed at a frequency of 1/20. One trip blank will be included per shipment of samples to the laboratory.

2.3. Horizontal Borings

Up to two horizontal borings will be attempted using directional drilling technologies. Locations of borings and number of samples will be determined following completion of soil borings and monitoring wells. An addendum to this work plan will be submitted providing sampling details following completion of the soil borings adjacent to Holder No. 1. The points will be advanced from a location near the property boundary along Flushing Avenue approximately 90 feet from the outer foundation wall of the former gas holder. The goal of the horizontal boring program will be to obtain soil samples from depths between 30 and 40 feet below grade, which will be below the former gas holder foundation, to assess the current soil conditions without penetrating the existing holder foundation. Note that the depth of the holder floor has been established through the previous borings at approximately 26 feet below grade. The ultimate depth of the outer wall foundation elements and the thickness of the holder floor have not been determined. As such, we are targeting a depth greater than 30 feet below grade, or greater than 4 feet below the holder floor, for the directional drilling borehole at the point it intersects the holder wall. If the holder wall foundation is encountered at a depth greater than 30 feet below

grade, an additional borehole may be advanced if the geometry allows, to attempt a deeper depth at the intercept point at the holder wall. In general, the borings will be advanced as follows:

- Borings will be installed from the boundary of the property along Flushing Avenue.
- The location of all utilities will be verified along the alignment of the borings to ensure that the borings do not interfere with any existing utilities.
- Each boring location will be hand cleared for utilities to at least 5 feet below grade. This will be completed by clearing a wedge-shaped trench at each boring location.
- Field locators and instrumentation will be used to accurately determine the exact location of the drilling head and any collected soil samples in the subsurface.
- Discrete and undisturbed soil samples using a specialized horizontal sampling tool will be collected below the holder.

The borehole will be pressure grouted as the drilling tools are extracted from the borehole.

2.4. Monitoring Well Installation

Two monitoring well pairs will be installed at borings SSSB-29/SSMW-09 and SSSB-30/SSMW-10. A third well pair will be installed at one of the two proposed boring locations located at the east side of the building (SSSB-26 or SSSB-27) with monitoring well ID; SSMW-11, the location of the monitoring well will be determined based on greatest degree of impacts observed within these borings. All three well pairs will include one shallow well that will be completed spanning the water table, and the deep monitoring well will be completed at a depth of 25 to 30 feet below grade. The drill rig will advance casing to the required termination depth of the monitoring well. Monitoring wells will be installed at the groundwater table, approximately 15 feet below grade and from approximately 25 to 30 feet below grade. Each water table monitoring well will be constructed with an approximate 10-foot-length of 2-inch-inner-diameter (ID), 0.010-inch-slotted well screen, and each deep monitoring well will have an approximate 5-foot length of the same well screen specification. Both water table and deep monitoring wells will be completed with a 2-inch ID poly vinyl chloride (PVC) riser pipe to the surface and a 2-foot sump. The annular space between the well screen and borehole wall will be backfilled with chemically inert sand to promote sufficient groundwater flow to the well and to minimize the passage of any fine-grained formational material into the well. The sand pack will extend approximately 2 feet above the top of the screen. A bentonite clay seal will be placed above the sand pack. The remaining annular space will be filled to grade with cement/bentonite grout. Each monitoring well will be fitted with a lockable cap and finished with a flush-mounted curb box secured with cement.

At locations SSSB-29/SSMW-09 and SSSB-30/SSMW-10, if visual impacts are observed at depths where the well screens of the monitoring well are proposed to be installed, then step out borings will be installed approximately 20-feet away. The monitoring wells will be installed at the step out locations.

Each newly-installed monitoring well will be developed by alternatively surging and pumping until the turbidity is less than 50 nephelometric turbidity units (NTUs) or until a maximum of 10 well volumes of

water has been removed. A field turbidity meter will be used to monitor the NTU levels. Well development will be completed in general accordance with the FSP.

Each of the newly-installed monitoring wells will be sampled after a minimum of two weeks following completion of well development.

Purge water generated during the installation and sampling of monitoring wells will be collected in 55-gallon USDOT drums or a fractionation tank and will be disposed at a National Grid-approved disposal facility.

2.5. Groundwater Sampling

Groundwater samples will be collected from the monitoring wells (SSMW-09 through SSMW-11) using low-flow methods according to the FSP. All the groundwater samples will be analyzed for TCL VOCs by EPA Method 8260D, TCL SVOCs by EPA Method 8270E, TAL Metals by EPA Method 6000/7000 series (unfiltered), PCBs by EPA Method 8082, pesticides by EPA Method 8081, herbicides by EPA Method 8151, 1,4-dioxane by EPA Method 8270, total cyanide by EPA Method 9014, and PFAS by EPA Method 1633 (Table 1).

QA/QC procedures are detailed within the QAPP. The QA/QC sample will include one blind duplicate groundwater sample. One trip blank will be included per shipment of samples to the laboratory.

2.6. Investigation Derived Waste

Soil cuttings, decontamination fluids, purge water, and personal protective equipment will be contained within properly labeled United States Department of Transportation (USDOT) 55-gallon drums and disposed of at a National Grid-approved disposal facility. Drums will be stored outside at the property at a location agreed upon by the property owner or their representative.

2.7. Survey

The newly installed soil borings and monitoring well locations will be surveyed, following the completion of the field work, by a New York State Licensed Land Surveyor to A 2 standards of accuracy with an approximate horizontal precision of ± 0.02 feet. The elevation of each location will be determined to ± 0.01 ft and will be tied into the Site benchmark. All locations and elevations will be referenced to the New York State Plane Eastern Zone North American Datum 1983 and North American Vertical Datum 1988.

2.8. Data Validation and Management

The samples will be analyzed by a New York State Environmental Lab Approval Program (ELAP) accredited laboratory. Analytical results will be provided in a New York State Category B data deliverable format. The data will be validated in accordance with New York State Analytical Service Protocols, and a data usability summary report will be prepared documenting the adequacy of the analytical data

obtained from the laboratory and discussing any quality control non-compliance issues or limitations on the use of the data.

2.9. Report Preparation

The information collected as part of the Supplemental Investigation Report will be submitted to NYSDEC following completion of field activities.

3. Schedule

SI field activities can commence following NYSDEC and New York State Department of Health (NYSDOH) approval of this work plan, contractor availability, and obtaining property access. We anticipate commencing work within two weeks of obtaining access. The following approximate schedule will be finalized following the approval of this Work Plan.

- Drilling/groundwater sampling: approximately 30 days.
- Horizontal drilling and sampling: approximately 6 days.
- Submittal of Supplemental Investigation Report: 14 weeks after completion of field activities.

Table

Table 1 Sample Descriptions, Rationale, and Analysis

Table 1. Sample Descriptions, Rationale, and Analysis
Supplemental Investigation Work Plan
Skillman Street Former Holder Station
Brooklyn, New York

Sample I.D.	Sample Location	Sample Rationale	Depth of Boring (feet)	Number of Samples		Sample Interval (feet)	TCL VOCs (8260)	TCL SVOCs (8270)	TAL Metals (6000/7000)	PCBs (8082)	Pesticides (8081)	Herbicides (8151)	1,4-Dioxane (8270)	Free Cyanide (9014)	PFAS (1633)	Waste Characterization Analyses
				Soil	Groundwater											
Soil Borings																
SSSB-24	North of former gas holder No. 1.	Soil boring to evaluate potential MGP related impacts north of the holder.	40	4	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X							X
SSSB-25	North of former gas holder No. 1.	Soil boring to evaluate potential MGP related impacts north of the holder.	40	4	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X	X	X	X	X	X	X	
SSSB-26 ¹	Southeast of former gas holder No. 1.	Soil boring and groundwater sample location to evaluate potential MGP related impacts.	40	5	1	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, sample from 10 to 15 feet if not the greatest impacts, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X	X ³	X ³	X ³	X ³	X ³	X ³	
SSSB-27 ¹	Within the footprint of the former gas holder No. 2.	Soil boring and groundwater sample location to evaluate potential MGP related impacts.	40	5	1	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, sample from 10 to 15 feet if not the greatest impacts (VOC, SVOC, and metals only), clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X	X	X	X	X	X	X	
SSSB-28	Within the footprint of the former gas holder No. 2.	Soil boring to evaluate potential MGP related impacts within the holder.	40	4	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X							X
SSSB-29/ SSMW-09S and SSMW-09D ²	Downgradient location of the former gas holder No. 1 and 2.	Soil boring and groundwater sample location to evaluate potential off site MGP related impacts.	40	4	1	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X	X	X	X	X	X	X	
SSSB-30/ SSMW-10S and SSMW-10D ²	Downgradient location of the former gas holder No. 1 and 2.	Soil boring and groundwater sample location to evaluate potential off site MGP related impacts.	40	4	1	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X	X ³	X ³	X ³	X ³	X ³	X ³	
SSSB-31	Within former gas holder No. 1.	Soil boring to evaluate disposal options for soil within the holder.	26	1	0	Bottom 5-foot interval of the boring. Holder bottom is anticipated to be 26 feet bgs.	X	X	X							X
SSSB-32	North of former gas holder No. 1.	Soil boring to evaluate potential MGP related impacts north of the holder.	40	4	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X	X	X	X	X	X	X	

Table 1. Sample Descriptions, Rationale, and Analysis
Supplemental Investigation Work Plan
Skillman Street Former Holder Station
Brooklyn, New York

Sample I.D.	Sample Location	Sample Rationale	Depth of Boring (feet)	Number of Samples		Sample Interval (feet)	TCL VOCs (8260)	TCL SVOCs (8270)	TAL Metals (6000/7000)	PCBs (8082)	Pesticides (8081)	Herbicides (8151)	1,4-Dioxane (8270)	Free Cyanide (9014)	PFAS (1633)	Waste Characterization Analyses
				Soil	Groundwater											
SSSB-33	North of former gas holder No. 1.	Soil boring to evaluate potential MGP related impacts north of the holder.	40	4	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X							X
SSSB-34	North of former gas holder No. 1.	Soil boring to evaluate potential MGP related impacts north of the holder.	40	4	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X							
SSSB-35	Within the footprint of former gas holder No. 2.	Soil boring to evaluate potential MGP and LNAPL related impacts.	40	5	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, sample from 10 to 15 feet if not the greatest impacts, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X							
SSSB-36	Within the footprint of former gas holder No. 2.	Soil boring to evaluate the extent of impacts in an interval that was not previously sampled.	20	1	0	Sample from 10 to 15 feet.	X	X								
SSSB-37	Within the footprint of former gas holder No. 2.	Soil boring to evaluate delineate chromium impacts at the completion depth of the boring.	40	5	0	Greatest degree of impacts from 0 to 5 feet, greatest degree of impacts below 5 feet, base of the holder approximately 20 to 25 feet, sample from 10 to 15 feet if not the greatest impacts, clean sample at bottom of boring or 10 feet below impacts if present.	X	X	X							

Notes:

1 - Monitoring wells (shallow and deep) will be installed at either of these boring locations depending on impacts as SSMW-11S and SSMW-11D

2 - If step out borings are installed, the monitoring wells will be installed in the step out location instead of SSSB-29 and 30.

3 - Water sample only

Chemical analysis test methods specified are from U.S. EPA SW-846 test methods

EPA - Environmental Protection Agency

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

PCBs - Polychlorinated Biphenyls

PFAS - Polyfluoroalkyl Substances

TAL - Target Analyte List

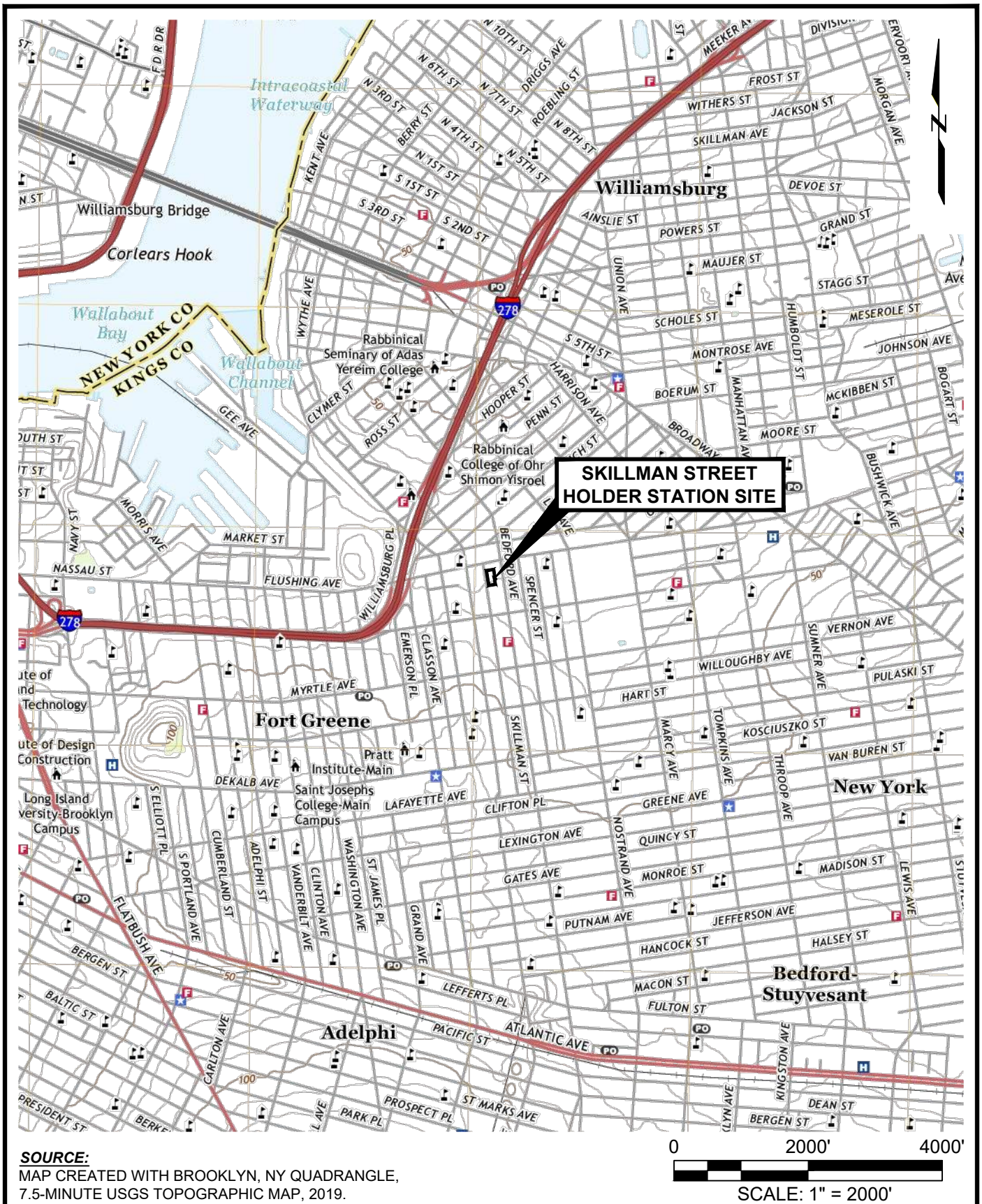
TCL - Target Compound List

Waste Characterization Analyses will be collected from select intervals and include TCL VOCs, TCL SVOCs, TAL metals, PCBs, EPH, sulfur, and TCLP analysis (VOCs, SVOCs, RCRA metals, pesticides, and herbicides)

Figures

Figure 1 Site Location Map

Figure 2 Property Boundaries and Sample Locations



Supplemental Investigation
 Work Plan
 Skillman Street Holder Station
 Brooklyn, New York

nationalgrid

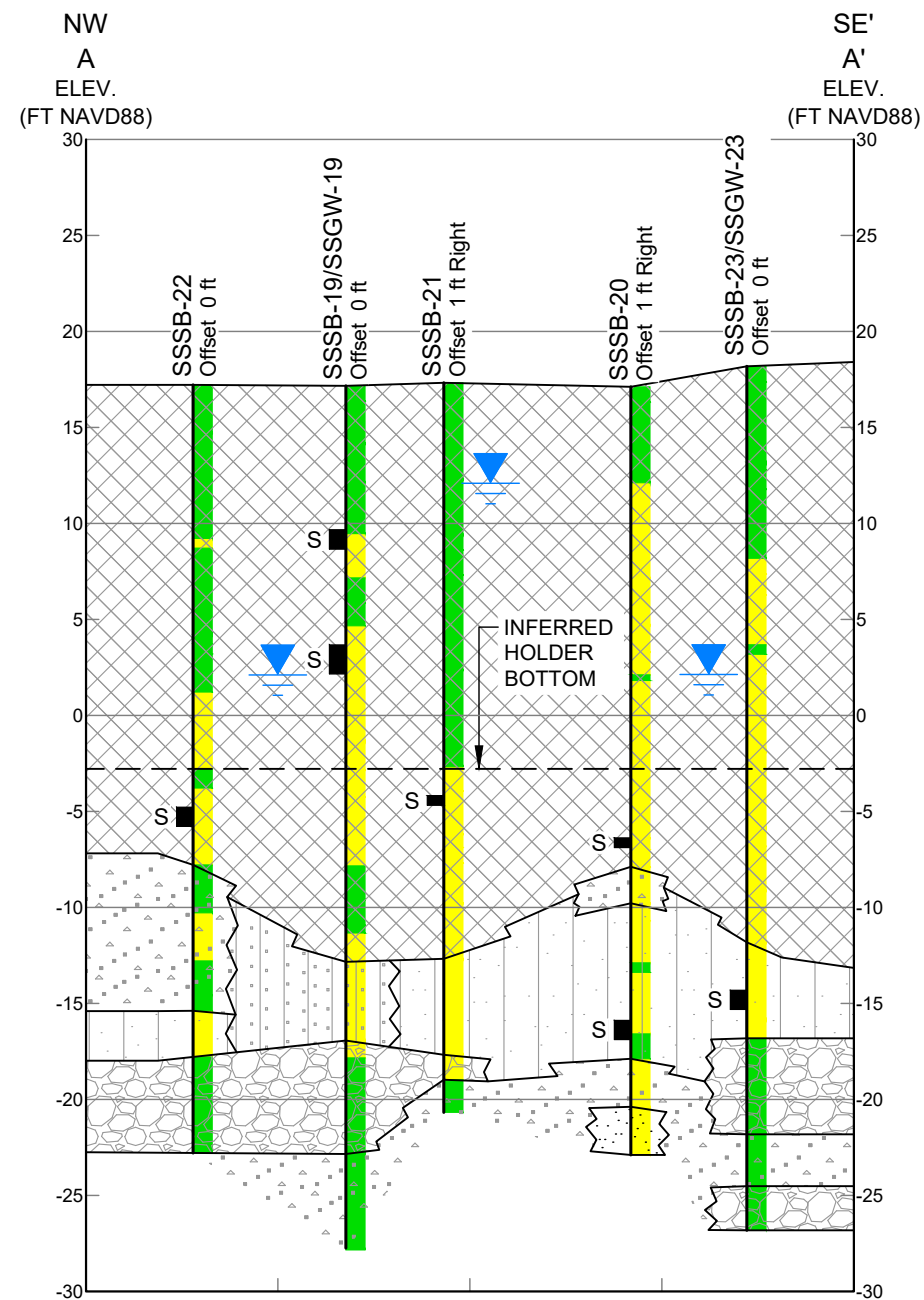


Project 093080

SITE LOCATION MAP

April 2025

Fig. 1



HORIZONTAL SCALE: 1" = 20'

0 20 40

0 10 20

VERTICAL SCALE: 1" = 10'

NOTE: 2x VERTICAL EXAGGERATION

LEGEND

- SSGP-15/
SSMW-06/
SSGW-06
- SOIL BORING / MONITORING
WELL / TEMPORARY
GROUNDWATER SAMPLING
POINT IDENTIFICATION
- OBSERVED APPARENT
GROUNDWATER TABLE BASED
UPON BORING INFORMATION
- S
- ANALYTICAL SOIL SAMPLE
INTERVAL
- WELL SCREEN INTERVAL
- NAVD88
- NORTH AMERICAN VERTICAL
DATUM (1988)

GEOLOGY

- FILL
- SAND
- SAND WITH SILT
- SAND WITH GRAVEL
- SILT
- SILTY SAND
- SILTY SAND WITH GRAVEL
- GRAVEL

PHYSICAL OBSERVATIONS

- TAR IMPACTS
COATED MATERIAL, LENSES
- TAR IMPACTS
BLEBS, GLOBS, SHEEN
- TAR IMPACTS
STAINING
- PETROLEUM IMPACTS
STAINING
- NO IMPACT OBSERVED

Supplemental Investigation
Work Plan
Skillman Street Holder Station
Brooklyn, New York

nationalgrid

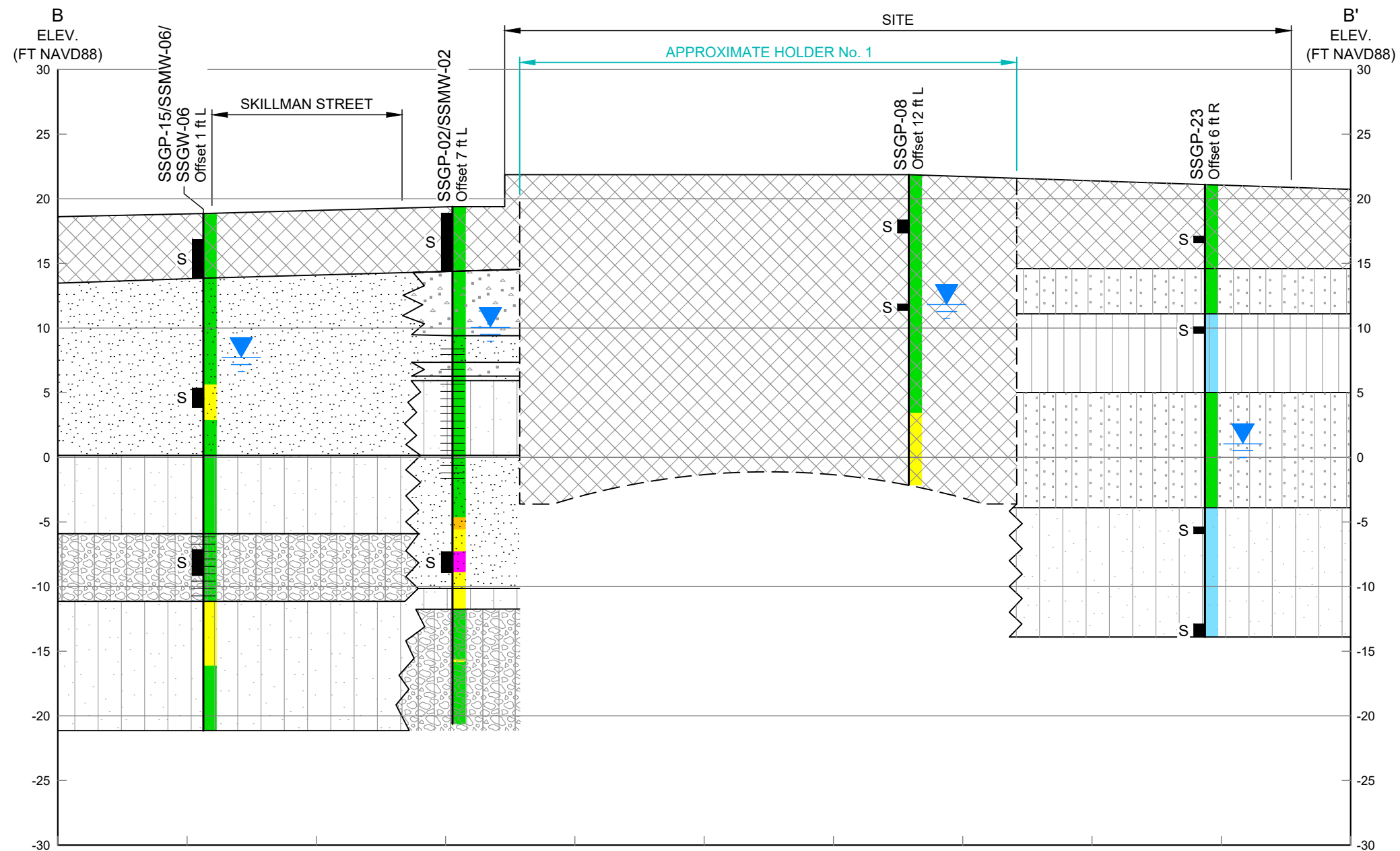


GEOLOGIC CROSS SECTION
A-A'

Project 093080

April 2025

Fig. 3



SSGP-15/
SSMW-06/
SSGW-06

▲

S

NAVD88

SOIL BORING / MONITORING
WELL / TEMPORARY
GROUNDWATER SAMPLING
POINT IDENTIFICATION

OBSERVED APPARENT
GROUNDWATER TABLE BASED
UPON BORING INFORMATION

ANALYTICAL SOIL SAMPLE
INTERVAL

WELL SCREEN INTERVAL

NORTH AMERICAN VERTICAL
DATUM (1988)

LEGEND

GEOLOGY

	FILL
	SAND
	SAND WITH SILT
	SAND WITH GRAVEL
	SILT
	SILTY SAND
	SILTY SAND WITH GRAVEL
	GRAVEL

PHYSICAL OBSERVATIONS

	TAR IMPACTS COATED MATERIAL, LENSES
	TAR IMPACTS BLEBS, GLOBS, SHEEN
	TAR IMPACTS STAINING
	PETROLEUM IMPACTS STAINING
	NO IMPACT OBSERVED

HORIZONTAL SCALE: 1" = 20'

0 20 40

0 10 20

VERTICAL SCALE: 1" = 10'

NOTE: 2x VERTICAL EXAGGERATION

Supplemental Investigation
Work Plan
Skillman Street Holder Station
Brooklyn, New York

nationalgrid

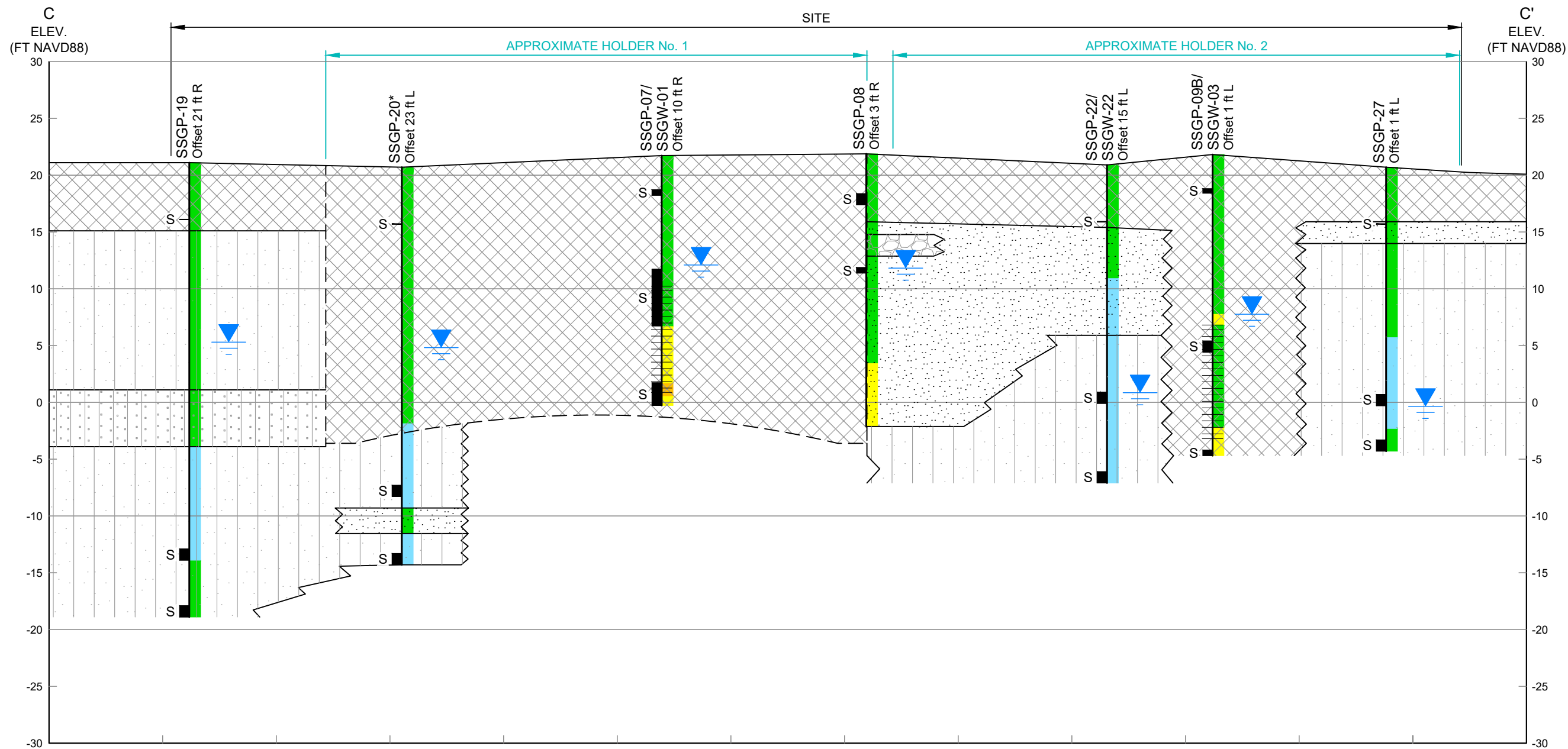
GEI Consultants

Project 093080

GEOLOGIC CROSS SECTION
B-B'

April 2025

Fig. 4



SSGP-15/
SSMW-06/
SSGW-06

▲

S

NAVD88

SOIL BORING / MONITORING
WELL / TEMPORARY
GROUNDWATER SAMPLING
POINT IDENTIFICATION

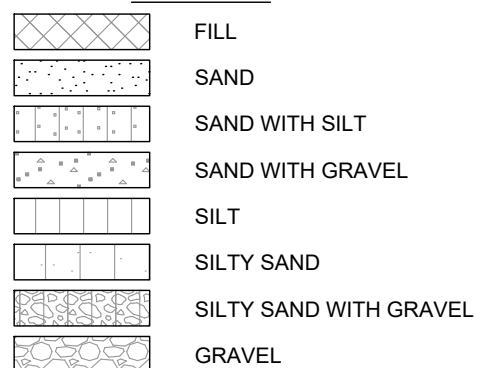
OBSERVED APPARENT
GROUNDWATER TABLE BASED
UPON BORING INFORMATION

ANALYTICAL SOIL SAMPLE
INTERVAL

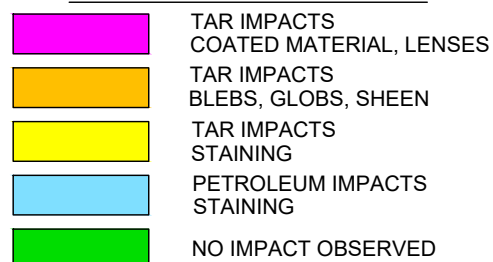
WELL SCREEN INTERVAL

NORTH AMERICAN VERTICAL
DATUM (1988)

LEGEND GEOLOGY



PHYSICAL OBSERVATIONS



NOTE:
* INDICATES BORING IS LOCATED OUTSIDE OF
HOLDER NO. 1.

HORIZONTAL SCALE: 1" = 20'

0 20 40

0 10 20

VERTICAL SCALE: 1" = 10'

NOTE: 2x VERTICAL EXAGGERATION

Supplemental Investigation
Work Plan
Skillman Street Holder Station
Brooklyn, New York

nationalgrid



Project 093080

GEOLOGIC CROSS SECTION
C-C'

April 2025

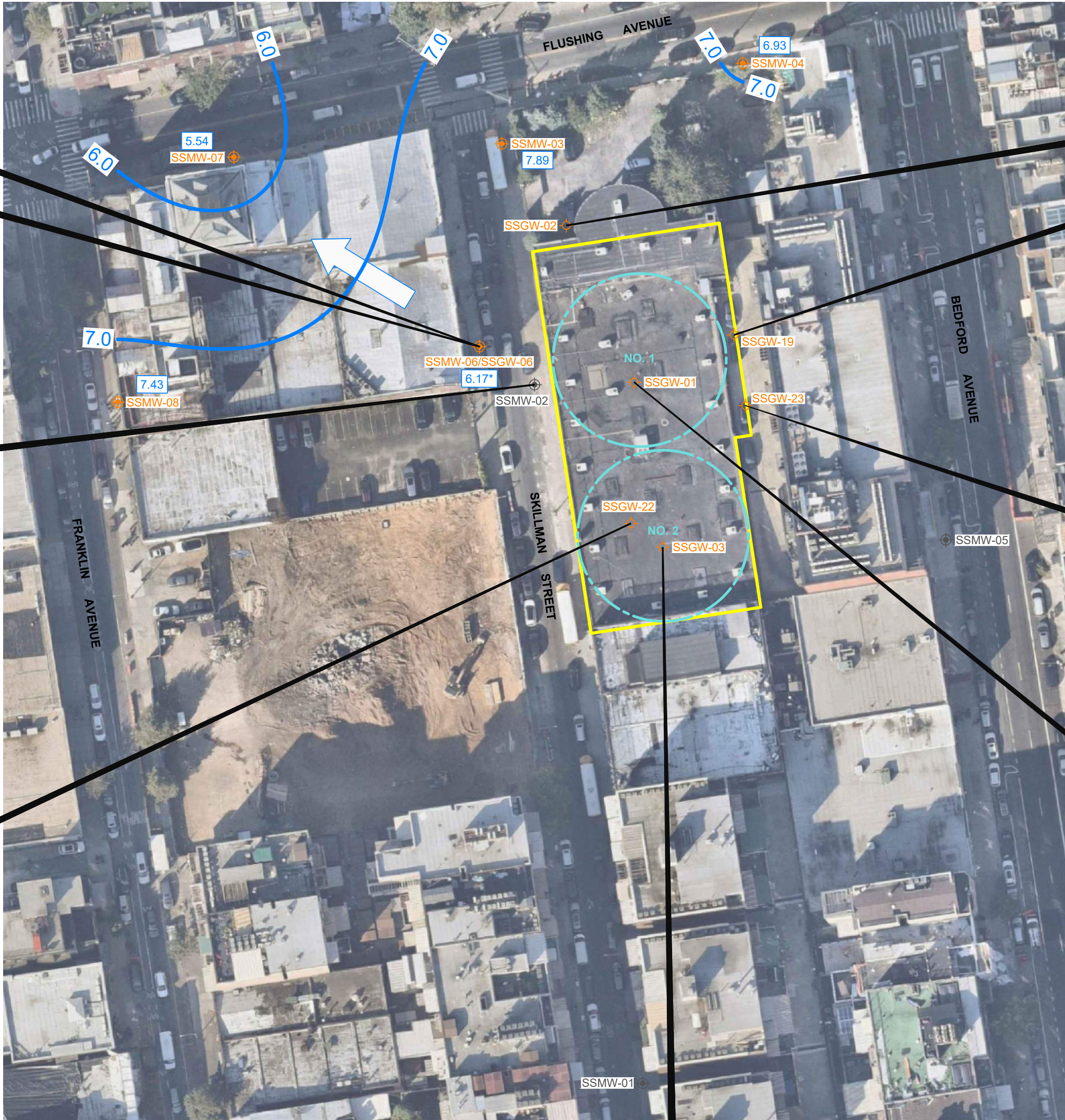
Fig. 5

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSMW-06 (25-30) 8/24/2017	SSMW-06 (25-30) 8/24/2017	Duplicate of SSMW-06 (25-30) 8/15/2018	SSMW-06 (25-30) 8/14/2019	SSMW-06 (25-30) 8/12/2020	Duplicate of SSMW-06 (25-30) 8/12/2020	SSMW-06 (25-30) 8/18/2021	SSMW-06 (25-30) 8/17/2022
BTEX (ug/L)	1	410	44	46	59 J	49	39	47	80
Benzene	5	600	0.3 J	0.35 J	2.4 J	89	490	600	2100 J
Toluene	5	720	1.2	1.3	75 J	410	930	1200	2000 J
Ethylbenzene	5	NA	8	8.2	83	150	290	350	1100 J
o-Xylene	5	NA	2	2	6.5 J	67	210	250	350 J
m-p-Xylene	5	1700	9.3	10	NA	NA	NA	NA	NA
Total Xylene	NE	3430	55.5	57.85	235.9	765	1959	2457	6221
Total BTEX	NE	3430	55.5	57.85	235.9	765	1959	2457	6221
Other VOCs (ug/L)	5	600	0.4 J	0.4 J	1 U	2 U	0.73 J	5 U	5 U
cis-1,2-Dichloroethene	5	NA	1.7	2	9.1	24	63	82	78
Isopropylbenzene	5	92	0.5 U	0.5 U	1 UJ	10	7.3	8.4	280
Styrene	5	290	0.5 U	0.21 J	1 U	2 UJ	2 UJ	5 U	48
Vinyl chloride	NE	4412	68.96	67.63	246.92	863.91	2031.19	2547.4	6666
Total VOCs	NE	4412	68.96	67.63	246.92	863.91	2031.19	2547.4	6666
PAHs (ug/L)	10*	1200	0.451 J	0.379 J	3.1 J	100	510 J	330 J	1100
Naphthalene	NE	1214	1.22	1.097	4.3	101.6	510	330	1105.4
Total PAHs	NE	1214	1.22	1.097	4.3	101.6	510	330	1105.4
Other SVOCs (ug/L)	50*	80 U	5.13 U	5.13 U	10 U	10 U	50 U	50 U	100 U
Diethyl phthalate	1	21 J	5.13 U	5.13 U	10 U	10 U	50 U	50 U	100 U
2-Methylphenol (o-Cresol)	1	80 U	NA	NA	10 U	10 U	4.8 J	50 U	100 U
4-Methylphenol (p-Cresol)	NE	1235	1.22	1.097	9.1	106.1	535.8	344	1105.4
Total SVOCs	NE	1235	1.22	1.097	9.1	106.1	535.8	344	1105.4
Total Metals (ug/L)	300	214	12100	12100	14700 J	13500	15700	16000	14200
Iron	35000*	16700	24100	23700	27600 J	31800	36700	36500	30100
Magnesium	300	3460	12700	12600	14400	15900	18600	18600	15600
Manganese	20000	109000	99300	98500	112000 J	129000	151000	150000	152000
Sodium									

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSGW-06 (11-16) 8/25/2010
BTEX (ug/L)	5	1100
Benzene	5	930
Ethylbenzene	5	3900
Total Xylene	NE	5930
Total BTEX	NE	5930
Other VOCs (ug/L)	5	1900
Styrene	NE	7730
Total VOCs	NE	7730
PAHs (ug/L)	10*	3300
Naphthalene	NE	3400
Total PAHs	NE	3400
Other SVOCs (ug/L)	NE	3400
Total SVOCs	NE	3400
Total Metals (ug/L)	300	6840
Iron	300	5830
Manganese	300	5830
Sodium	20000	99900

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSMW-02 (11-21) 5/31/2011	SSMW-02 (11-21) 8/24/2017	SSMW-02 (11-21) 8/15/2018	SSMW-02 (11-21) 8/14/2019	Duplicate of SSMW-02 (11-21) 8/14/2019
BTEX (ug/L)	1	100 J	100 U	25 U	50 U	50 U
Benzene	5	260	100 U	25 U	50 U	50 U
Toluene	5	250	100 U	25 U	17 J	17 J
Ethylbenzene	5	NA	200 U	25 U	17 J	21 J
m-p-Xylene	5	800	300 U	NA	NA	NA
Total Xylene	NE	1410	ND	ND	34	38
Total BTEX	NE	1410	ND	ND	34	38
Other VOCs (ug/L)	50*	880	400 UJ	130 U	250 U	250 U
Acetone	5	250 U	100 U	8.4 J	26 J	26 J
1,1-Dichloroethene	5	8000	2800	2000	7200	7000
cis-1,2-Dichloroethene	5	39 J	100 U	11 J	31 J	35 J
trans-1,2-Dichloroethene	5	360	100 U	25 U	50 U	50 U
Styrene	5	9400	6900	8800	14000	12000
Tetrachloroethene (PCE)	5	1900	1700	1600	3800	3400
Trichloroethene (TCE)	2	380	100	84	300	280
Vinyl chloride	NE	22339	10400	12203.4	25391	22753
Total VOCs	NE	22339	10400	12203.4	25391	22753
PAHs (ug/L)	10*	490	6.52 J	2.1 J	53	70
Naphthalene	NE	500	6.9613	2.1	53	70
Total PAHs	NE	500	6.9613	2.1	54	71.1
Other SVOCs (ug/L)	NE	500	6.9613	2.1	54	71.1
Total SVOCs	NE	500	6.9613	2.1	54	71.1
Total Metals (ug/L)	3	15 U	5 U	2 U	2 U	2 U
Antimony	300	26400	18100	40800 J	55400	57100
Iron	35000*	24200	23400	53900 J	60400	62900
Magnesium	300	7070	6350	16900	11700	11800
Manganese	20000	114000	128000	311000 J	257000	274000
Sodium						

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSGW-22 (15-20) 6/14/2023
BTEX (ug/L)	1	12
Benzene	NE	16.24
Total BTEX	NE	16.24
Other VOCs (ug/L)	NE	29.94
Total VOCs	NE	29.94
PAHs (ug/L)	NE	ND
Total PAHs	NE	ND
Other SVOCs (ug/L)	NE	ND
Total SVOCs	NE	ND
Total Metals (ug/L)	25	61.9
Arsenic	1000	1620
Barium	3*	29.5
Beryllium	5	6.2
Cadmium	50	709
Chromium	200	1060
Copper	300	937000
Lead	25	432
Magnesium	35000*	93200
Manganese	300	16800
Nickel	100	529
Sodium	20000	147000
Thallium	0.5*	5.7



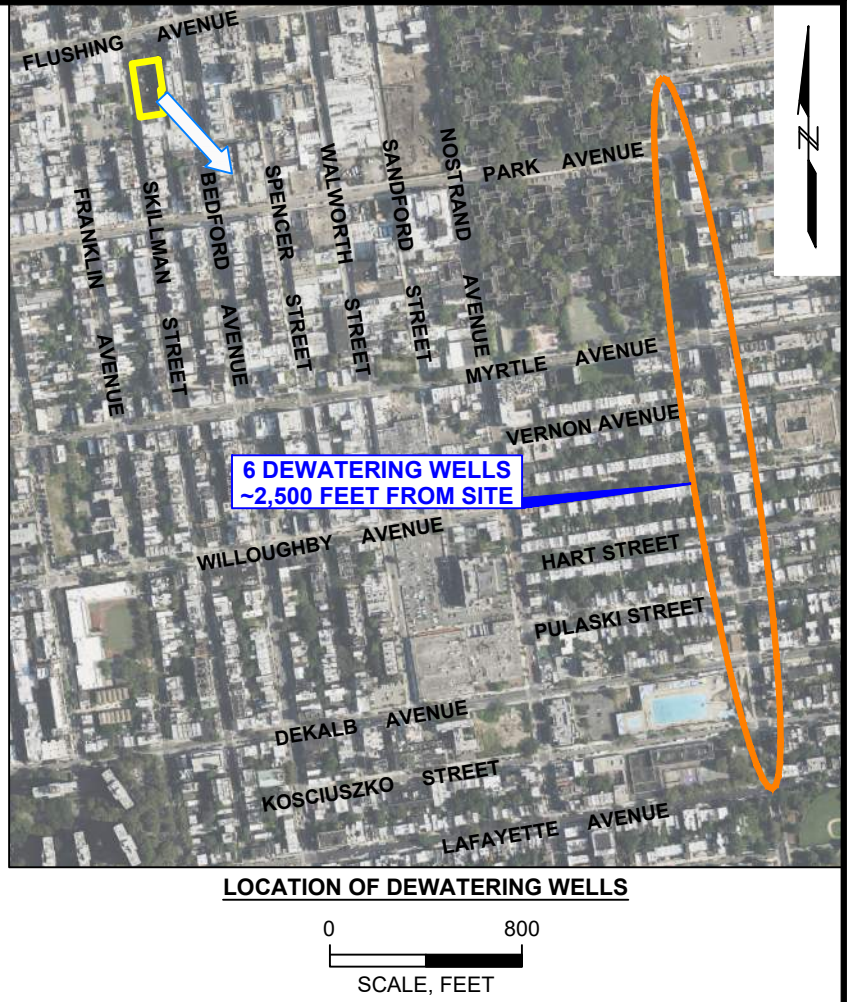
Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSGW-03 (15-25) 6/26/2013
BTEX (ug/L)	1	13
Benzene	NE	13
Total BTEX	NE	13
Other VOCs (ug/L)	5	9.2
cis-1,2-Dichloroethene	NE	22.2
Total VOCs	NE	22.2
PAHs (ug/L)	NE	ND
Total PAHs	NE	ND
Other SVOCs (ug/L)	NE	ND
Total SVOCs	NE	ND
Total Metals (ug/L)	50	380
Chromium	200	380
Copper	300	410000
Iron	25	170
Lead	35000*	150000
Magnesium	300	36000
Manganese	100	280
Nickel	20000	140000
Sodium		

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSGW-02 (11-21.5) 6/28/2013
BTEX (ug/L)	1	240
Benzene	5	79
Toluene	5	32
Ethylbenzene	5	150
o-Xylene	5	100
m-p-Xylene	NE	601
Total BTEX	NE	601
Other VOCs (ug/L)	5	1900
cis-1,2-Dichloroethene	5	64
Isopropylbenzene	5	239
Tetrachloroethene (PCE)	5	140
Trichloroethene (TCE)	5	200
Vinyl chloride	NE	3135
Total VOCs	NE	3135
PAHs (ug/L)	10*	62
Naphthalene	NE	62
Total PAHs	NE	62
Other SVOCs (ug/L)	NE	62
Total SVOCs	NE	62
Total Metals (ug/L)	50	68
Chromium	300	50000
Iron	25	75
Lead	300	2700
Manganese	20000	83000
Sodium	200	330 J
Cyanides (ug/L)		
Total Cyanide		

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSGW-19 (14-24) 3/11/2016
BTEX (ug/L)	NE	ND
Total BTEX	NE	ND
Other VOCs (ug/L)	7	15
Chloroform (Trichloromethane)	NE	20.8
Total VOCs	NE	20.8
PAHs (ug/L)	NE	ND
Total PAHs	NE	ND
Other SVOCs (ug/L)	NE	ND
Total SVOCs	NE	ND
Total Metals (ug/L)	25	47
Arsenic	1000	1800
Barium	3*	17
Beryllium	50	430
Chromium	200	870
Copper	300	420000
Iron	25	180
Lead	35000*	71000
Magnesium	300	7300
Manganese	100	360
Nickel	20000	66000
Sodium	200	240
Cyanides (ug/L)		
Total Cyanide		

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSGW-23 (15-25) 3/11/2016	Duplicate of SSGW-23 (15-25) 3/11/2016
BTEX (ug/L)	1	1.7	1.7
Benzene	NE	3.5	4.3
Total BTEX	NE	3.5	4.3
Other VOCs (ug/L)	7	11	11
Chloroform (Trichloromethane)	NE	18.1	19
Total VOCs	NE	18.1	19
PAHs (ug/L)	NE	ND	ND
Total PAHs	NE	ND	ND
Other SVOCs (ug/L)	5	5.1	5.8
Bis(2-ethylhexyl)phthalate	NE	5.1	5.8
Total SVOCs	NE	5.1	5.8
Total SVOCs (ug/L)	300	18000 J	13000 J
Iron	300	2000	1700
Manganese	20000	82000	73000
Sodium			

Sample Name: Sample Depth (feet bgs): Sample Date:	NYS AWQS	SSGW-01 (13-23) 6/27/2013	Duplicate of SSGW-01 (13-23) 6/27/2013
BTEX (ug/L)	1	4300	5600
Benzene	5	16000	20000
Toluene	5	9500	12000
Ethylbenzene	5	4000	4900
o-Xylene	5	7700	9400
m-p-Xylene	NE	41500	51900
Total BTEX	NE	41500	51900
Other VOCs (ug/L)	5	350	420
Isopropylbenzene	5	70 J	82
Styrene	NE	41920	52402
Total VOCs	NE	41920	52402
PAHs (ug/L)	10*	5600 J	3300 J
Naphthalene	NE	5600	3500
Total PAHs	NE	5600	3500
Other SVOCs (ug/L)	NE	5600	3500
Total SVOCs	NE	5600	3500
Total Metals (ug/L)	300	20000	26000
Iron	25	83 J	280 J
Lead	300	690 J	1300 J
Manganese	20000	100000	110000
Nickel			
Cyanides (ug/L)	200	240 J	200 J
Total Cyanide			



LEGEND:	
	SITE BOUNDARY (APPROXIMATE)
	HISTORIC GAS HOLDER
	GROUNDWATER CONTOUR (FEET NAVD)
	GROUNDWATER ELEVATION (FEET NAVD)
	ELEVATION - NOT USED TO GENERATE GROUNDWATER CONTOURS
	INFERRED GROUNDWATER FLOW DIRECTION
	NAVD
	MONITORING WELL
	MONITORING WELL (DESTROYED)
	TEMPORARY GROUNDWATER SAMPLING POINT

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater	
ug/L	Micrograms per liter or parts per billion (ppb)
ng/L	Nanogram per liter (ppt)
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
PAH	Polycyclic Aromatic Hydrocarbon
PFAS	Per- and Polyfluoroalkyl Substances
SVOC	Semi-Volatile Organic Compound
VOC	Volatile Organic Compound

Total BTEX, Total VOCs, Total PAHs, Total SVOCs, and Total PFAS are calculated using detects only.

Total PAHs are calculated using the list of analytes: Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Fluoranthene, Fluorene, Indeno[1,2,3-cd]pyrene, Naphthalene, 2-Methylnaphthalene, Phenanthrene, and Pyrene

*	Value is a guidance value and not a standard
NA	Not analyzed
ND	Not detected
NE	Not established
BOLD	A detected result concentration
BOLD	Indicates that the detected result value exceeds the NYS AWQS

VALIDATION QUALIFIERS:	
J	The result is an estimated value.
R	The result is rejected.
U	The result was not detected above the reporting limit.
UU	The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

SOURCES:

- DEWATERING WELL AERIAL IMAGERY: BING ©2023 MICROSOFT CORPORATION ©2023 MAXAR ©CNES (2023) DISTRIBUTION AIRBUS DS ACCESSED VIA CIVIL3D ON 08/02/2023.
- SITE AERIAL IMAGERY: ©2024 NEARMAP, 10/11/2024.
- SURVEY OF REMEDIAL SYSTEM OPTIMIZATION INVESTIGATION EXPLORATIONS CONDUCTED BY MJ ENGINEERING AND LAND SURVEYING, P.C., CLIFTON PARK, NY ON 7/5/2023. HORIZONTAL DATUM: NAD83/2011, VERTICAL DATUM NAVD88, GEOID18.
- SURVEY OF SAMPLE LOCATIONS CONDUCTED BY GEI CONSULTANTS, INC. ON 5/31/11, 6/23/11, AND 6/28/13. SURVEY BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (NY EAST ZONE), VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD)88.

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-07 (3-4) 6/26/2013	Duplicate of SSGP-07 (3-4) 6/26/2013	SSGP-07 (10-15) 6/26/2013	SSGP-07 (20-22) 6/26/2013
BTEX (mg/kg)						
Benzene	0.06	4.8	0.0013 J	0.0011 J	0.0013 UJ	0.61 J
Toluene	0.7	100	0.0012 UJ	0.0011 UJ	0.0013 UJ	12 J
Ethylbenzene	1	41	0.0012 UJ	0.0011 UJ	0.0013 UJ	29 J
o-Xylene	0.26	100	0.0012 UJ	0.0011 UJ	0.0013 UJ	11 J
m/p-Xylene	0.26	100	0.0024 UJ	0.0023 UJ	0.0026 UJ	25 J
Total BTEX	NE	NE	0.0013	0.0011	ND	77.61
Other VOCs (mg/kg)						
Total VOCs	NE	NE	0.0358	0.0291	ND	80.85
PAHs (mg/kg)						
Benzo(a)anthracene	1	1	0.85	1.3	0.043 U	0.22 U
Benzo(b)fluoranthene	1	1	1.1	1.5	0.055	0.22 U
Benzo(k)pyrene	1	1	0.86	1.4	0.043 U	0.22 U
Chrysene	1	3.9	0.96	1.5	0.043 U	0.22 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.61 J	1.2 J	0.043 U	0.22 U
Naphthalene	12	100	0.37 U	0.37 U	0.43 U	38 J
Total PAHs	NE	NE	10.638	16.58	0.955	46.1
Other SVOCs (mg/kg)						
Total SVOCs	NE	NE	10.638	16.58	0.955	46.1
Metals (mg/kg)						
Lead	63	400	270 J	330 J	56 J	169 J
Mercury	0.18	0.81	0.31	0.28	0.033	0.07
Nickel	30	310	21	20	69	41
Zinc	109	10000	230	170	49	80

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-02 (0.5-5) 8/9/2010	SSGP-02 (26.7-28.3) 8/9/2010
BTEX (mg/kg)				
Benzene	0.7	100	0.0057 U	160
Toluene	1	41	0.0057 U	220
Ethylbenzene	0.26	100	0.0057 U	840
Total BTEX	NE	NE	0.001	1220
Other VOCs (mg/kg)				
Total VOCs	NE	NE	0.092	1620
PAHs (mg/kg)				
Naphthalene	12	100	0.21 J	1000
Total PAHs	NE	NE	2.067	1218.7
Other SVOCs (mg/kg)				
Total SVOCs	NE	NE	2.113	1218.7

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-08 (3.5-4.5) 6/25/2013	SSGP-08 (10-10.5) 6/25/2013
BTEX (mg/kg)				
Total BTEX	NE	NE	ND	ND
Other VOCs (mg/kg)				
Total VOCs	NE	NE	ND	ND
PAHs (mg/kg)				
Total PAHs	NE	NE	0.338	ND
Other SVOCs (mg/kg)				
Total SVOCs	NE	NE	0.338	ND
Metals (mg/kg)				
Copper	50	270	63	25
Lead	63	400	339 J	73 J
Nickel	30	310	170	36

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-21 (0.4-5) 6/2/2023	SSGP-21 (16.5-17) 6/6/2023	SSGP-21 (34-35) 6/8/2023
BTEX (mg/kg)					
Benzene	0.06	4.8	0.0015 U	0.73 J	0.0018
Toluene	0.7	100	0.0015 U	3.5	0.0017
Ethylbenzene	1	41	0.0015 U	170	0.018
o-Xylene	0.26	100	0.0015 U	92	0.027
m/p-Xylene	0.26	100	0.00038 J	210	0.022
Total Xylene	0.26	100	0.00038 J	300	0.046
Total BTEX	NE	NE	0.00038	476.23	0.0705
Other VOCs (mg/kg)					
n-Propylbenzene	3.9	100	0.0015 U	10	0.0012
1,2,4-Trimethylbenzene	3.6	52	0.0015 U	170	0.026
1,3,5-Trimethylbenzene	8.4	52	0.0015 U	53	0.0019
Total VOCs	NE	NE	0.00038	736.57	0.10205
PAHs (mg/kg)					
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.72 J	0.13	0.037 U
Naphthalene	12	100	0.027 J	180	2.8
Total PAHs	NE	NE	6.06	206.346	2.836
Other SVOCs (mg/kg)					
Total SVOCs	NE	NE	6.134	209.171	2.836

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-22 (5) 6/9/2023	SSGP-22 (20-21) 6/9/2023	SSGP-22 (27-28) 6/14/2023
BTEX (mg/kg)					
Total BTEX	NE	NE	ND	ND	0.1006
Other VOCs (mg/kg)					
Total VOCs	NE	NE	ND	0.01362	0.13355
PAHs (mg/kg)					
Total PAHs	NE	NE	1.032	ND	0.18
Other SVOCs (mg/kg)					
Total SVOCs	NE	NE	1.12	ND	0.18
Metals (mg/kg)					
Mercury	0.18	0.81	0.22 J	0.014 J	0.016 J

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-24 (4-5) 6/7/2023	SSGP-24 (25-26) 6/8/2023	SSGP-24 (34-35) 6/8/2023
BTEX (mg/kg)					
Total BTEX	NE	NE	0.00042	0.00658	ND
Other VOCs (mg/kg)					
Total VOCs	NE	NE	0.00042	0.01188	0.0102
PAHs (mg/kg)					
Total PAHs	NE	NE	0.53	0.84	0.037 U
Other SVOCs (mg/kg)					
Total SVOCs	NE	NE	9.958	0.921	ND
Metals (mg/kg)					
Lead	63	400	260	15.5 J	3.2 J
Mercury	0.18	0.81	1.6	0.035	0.018 U
Zinc	109	10000	180	50.3	16.9

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-26 (0.4-4) 6/2/2023	SSGP-26 (11-12) 6/7/2023	SSGP-26 (29-30) 6/7/2023
BTEX (mg/kg)					
Total BTEX	NE	NE	0.00041	ND	ND
Other VOCs (mg/kg)					
Total VOCs	NE	NE	0.01051	ND	ND
PAHs (mg/kg)					
Total PAHs	NE	NE	1.175	0.079	ND
Other SVOCs (mg/kg)					
Total SVOCs	NE	NE	1.239	0.079	ND

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-20 (5) 6/8/2023	SSGP-20 (28-29) 6/8/2023	SSGP-20 (34-35) 6/8/2023	Duplicate of SSGP-20 (34-35) 6/8/2023
BTEX (mg/kg)						
Total BTEX	NE	NE	ND	0.0612	0.0589	0.0668
Other VOCs (mg/kg)						
Total VOCs	NE	NE	ND	0.0893	0.078	0.09987
PAHs (mg/kg)						
Benzo(b)fluoranthene	1	1	1.3	0.038 U	0.03 J	0.037 U
Benzo(a)pyrene	1	1	1.2	0.038 U	0.028 J	0.037 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	1.2	0.038 U	0.034 J	0.037 U
Total PAHs	NE	NE	9.925	0.25	0.464	0.24
Other SVOCs (mg/kg)						
Total SVOCs	NE	NE	10.031	0.25	0.544	0.24
Metals (mg/kg)						
Chromium	30	180	17.2 J	15 J	28.1 J	50.4 J
Lead	63	400	81.1 J	6.5 J	8.7 J	7.3 J
Mercury	0.18	0.81	0.19	0.018 U	0.019 U	0.019 U

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-06 (3-3.5) 6/27/2013	SSGP-06 (15-17) 6/27/2013	SSGP-06 (31-32) 6/27/2013
BTEX (mg/kg)					
Total BTEX	NE	NE	ND	ND	ND
Other VOCs (mg/kg)					
Total VOCs	NE	NE	0.0313	0.0586	ND
PAHs (mg/kg)					
Benzo(b)fluoranthene	1	1	1.1	0.039 U	0.036 U
Total PAHs	NE	NE	10.587	ND	ND
Other SVOCs (mg/kg)					
Total SVOCs	NE	NE	10.587	ND	ND
Metals (mg/kg)					
Copper	50	270	63	22	25
Lead	63	400	160 J	4.6 J	7.1 J
Mercury	0.18	0.81	0.38	0.02 U	0.018 U
Nickel	30	310	31	8.7 U	11
Zinc	109	10000	280	23	31

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSGP-19 (5) 6/9/2023	SSGP-19 (34-35) 6/9/2023	Duplicate of SSGP-19 (34-35) 6/9/2023	SSGP-19 (39-40) 6/9/2023
BTEX (mg/kg)						
Total BTEX	NE	NE	ND	0.0016	ND	ND
Other VOCs (mg/kg)						
Total VOCs	NE	NE	0.018	0.00759	ND	0.0008
PAHs (mg/kg)						
Total PAHs	NE	NE	3.878	ND	0.069	1.262
Other SVOCs (mg/kg)						
Total SVOCs	NE	NE	3.984	ND	0.069	1.297
PFAS-Soil (mg/kg)						
Perfluorooctanoic Acid (PFOA)	0.00066	0.033	0.00089	0.0002 U	0.0002 U	8.4E-05 J
Metals (mg/kg)						
Lead	63	400	247 J	2.6 J	3 J	13.5 J
Mercury	0.18	0.81	1.4 J	0.013 J	0.015 J	0.026 J
Nickel	109	10000	503 J	16.8 J	17.6 J	51.7 J
Zinc	109	10000	503 J	16.8 J	17.6 J	51.7 J

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSSB-22 (31/10/2016)
BTEX (mg/kg)			
Total BTEX	NE	NE	ND
Other VOCs (mg/kg)			
Total VOCs	NE	NE	0.00081
PAHs (mg/kg)			
Total PAHs	NE	NE	ND
Other SVOCs (mg/kg)			
Total SVOCs	NE	NE	ND

Sample Name: Sample Depth (feet bgs): Sample Date:	Unrestricted SCO	Restricted- Residential SCO	SSSB-19 (7.5-8.5) 3/11/2016	Duplicate of SSSB-19 (7.5-8.5) 3/11/2016	SSSB-19 (13.5-15) 3/11/2016	SSSB-19 (33-34) 3/11/2016
BTEX (mg/kg)						
Total BTEX	NE	NE	ND	0.0024	ND	0.2346
Other VOCs (mg/kg)						
Total VOCs	NE	NE	0.0011	0.0034	ND	0.2548
PAHs (mg/kg)						
Total PAHs	NE	NE	ND	ND	ND	