

DRAWINGS

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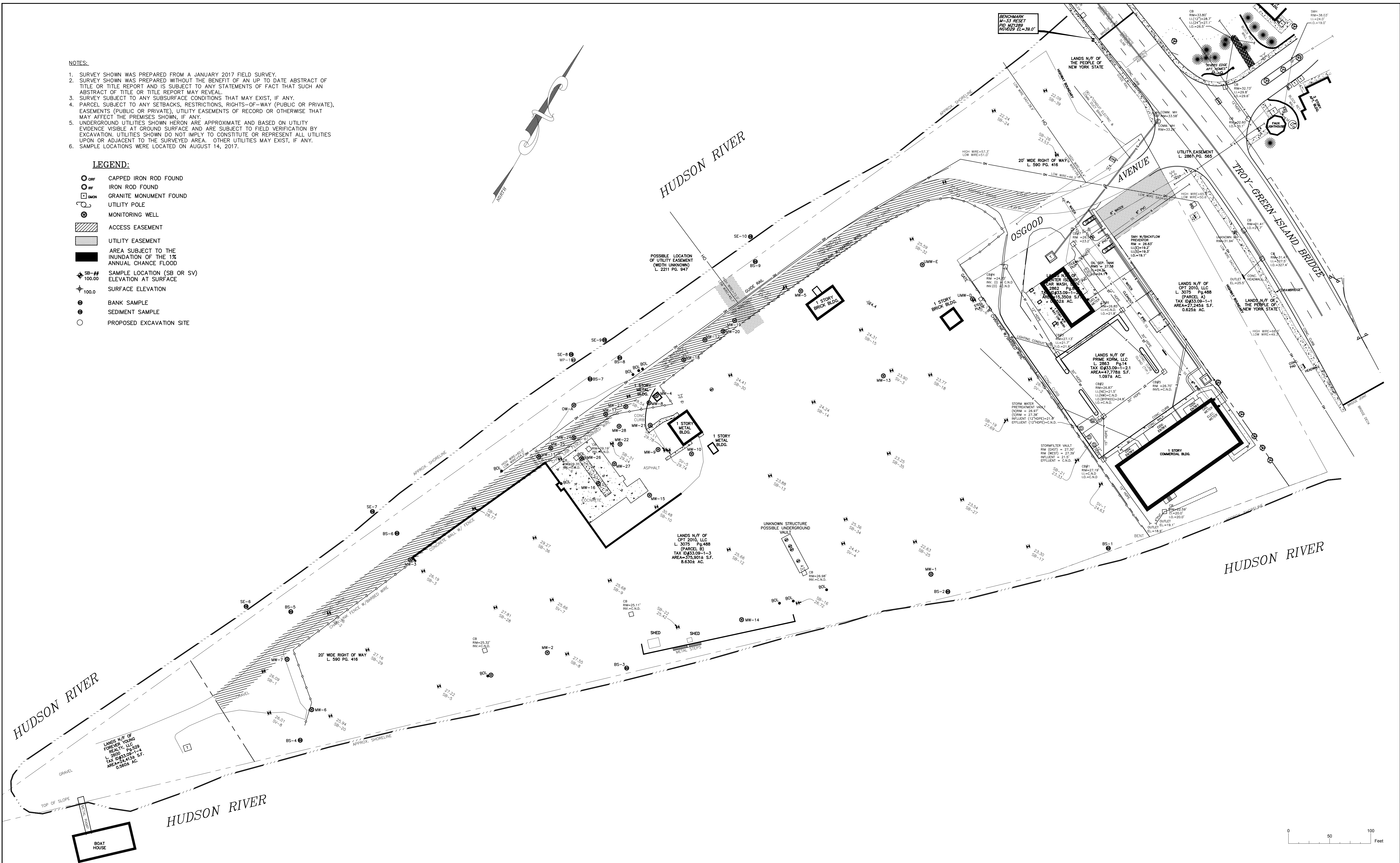


NOTES:

1. SURVEY SHOWN WAS PREPARED FROM A JANUARY 2017 FIELD SURVEY.
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6. SAMPLE LOCATIONS WERE LOCATED ON AUGUST 14, 2017.

LEGEND:

- CRF CAPPED IRON ROD FOUND
- IRF IRON ROD FOUND
- GMON GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ▨ ACCESS EASEMENT
- ▨ UTILITY EASEMENT
- ▨ AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-## SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE
- PROPOSED EXCAVATION SITE



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ENVIROSPEC PROJECT #E17-1600



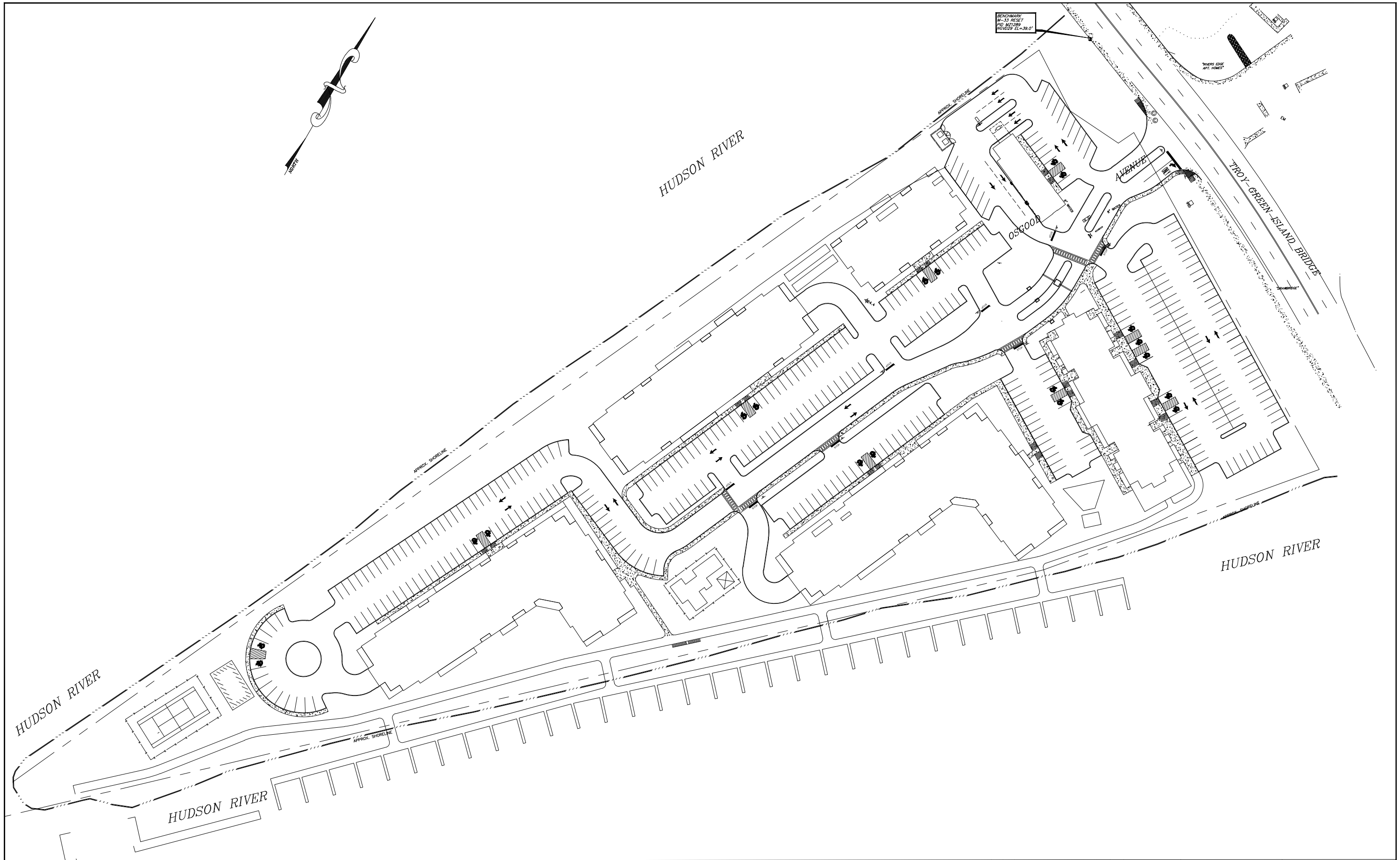
349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
F:518.453.2204

W.O.No.	REVISION	DATE	BY	APPR

DRAWING STATUS
FOR
REFERENCE
ONLY

SOUTH ISLAND APARTMENTS SITE 1 OSGOOD AVENUE/CENTER ISLAND, TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK	
BY	DATE
DR	11/15/17
CHK	11/15/17
APP	11/15/17

SOUTH ISLAND APARTMENTS SITE SOUTH ISLAND APARTMENTS SITE SURVEYED SAMPLE LOCATIONS	
SCALE	NTS
DRAWING No.	S-5
SHEET	REV. No.



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ENVIROSPEC PROJECT #E17-1600



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1 OSGOOD AVENUE/CENTER ISLAND,
TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK

SOUTH ISLAND APARTMENTS SITE
SOUTH ISLAND APARTMENTS SITE
DEVELOPMENT PLAN

SCALE: NTS
DRAWING NO.: DP-1
SHEET: 1 OF 1
REV. NO.

NOTES:

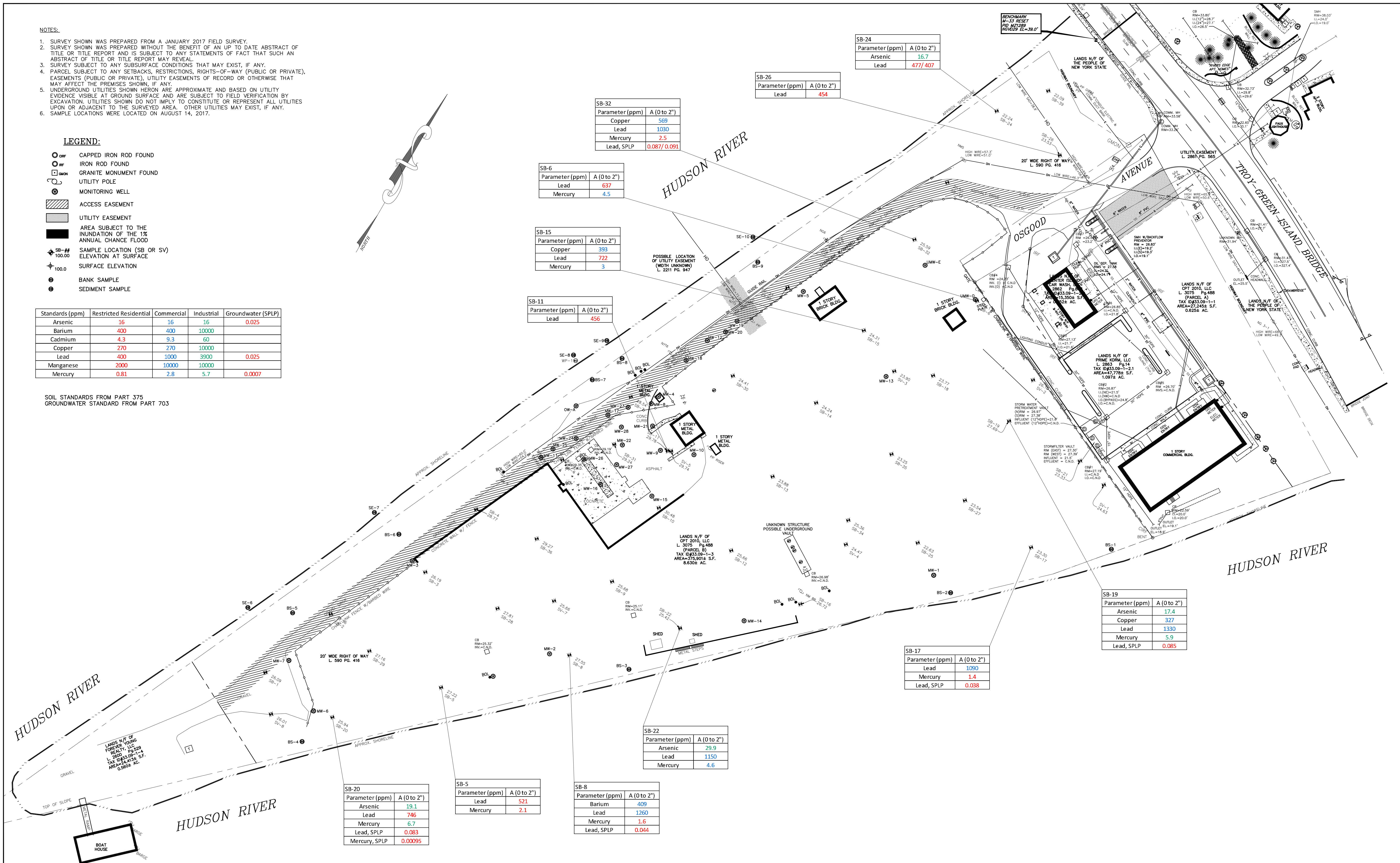
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- GMM GRANITE MONUMENT FOUND
- UTY UTILITY POLE
- MW MONITORING WELL
- ▨ ACCESS EASEMENT
- ▨ UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- ✦ SB-## SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- ✦ 100.0 SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial	Groundwater (SPLP)
Arsenic	16	16	16	0.025
Barium	400	400	10000	
Cadmium	4.3	9.3	60	
Copper	270	270	10000	
Lead	400	1000	3900	0.025
Manganese	2000	10000	10000	
Mercury	0.81	2.8	5.7	0.0007

SOIL STANDARDS FROM PART 375
GROUNDWATER STANDARD FROM PART 703



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- SURFACE ELEVATION
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Cadmium	4.3	9.3	60	
Copper	270	270	10000	
Lead	400	1000	3900	0.025
Manganese	2000	10000	10000	
Mercury	0.81	2.8	5.7	0.0007

SOIL STANDARDS FROM PART 375
GROUNDWATER STANDARD FROM PART 703

Parameter (ppm)	B (2" to 2')
Lead	469
Mercury	1.1/ 0.84
Lead, SPLP	0.068/ 0.061

Parameter (ppm)	B (1' to 3')
Arsenic	17
Lead	521
Mercury	1.5
Lead, SPLP	0.15

Parameter (ppm)	B (2" to 2')	C (25' to 30')
Arsenic	17.9	--
Barium	476	--
Copper	302	--
Lead	1290	--
Mercury	2.3	0.95
Lead, SPLP	0.12	0.035

Parameter (ppm)	B (2" to 2')
Arsenic	20.9
Lead	1080
Mercury	1.5
Lead, SPLP	0.042

Parameter (ppm)	B (2" to 2')
Lead	560
Lead, SPLP	0.034/ 0.039

Parameter (ppm)	B (2" to 2')
Barium	423
Lead	1370
Mercury	5.9
Lead, SPLP	0.07

Parameter (ppm)	B (2" to 2')
Lead	476
Mercury	0.89

Parameter (ppm)	B (0 to 2')
Arsenic	30.1
Lead	687
Mercury	1.1
Lead, SPLP	0.071

Parameter (ppm)	B (3' to 5')
Arsenic	16.2

Parameter (ppm)	B (2" to 2')
Lead	1060
Mercury	1.1

Parameter (ppm)	B (1' to 2')	D (7' to 9')
Lead	711	--
Mercury	2.6	6.9
Lead, SPLP	--	0.074

Parameter (ppm)	B (2" to 2')
Arsenic	23.5/ 19.2
Barium	408
Copper	357/ 724
Lead	1820/ 867
Mercury	5/ 39.4

Parameter (ppm)	B (2" to 2')
Lead	575

Parameter (ppm)	B (2" to 2')	D (25' to 30')
Arsenic	16	--
Copper	1990	--
Lead	673	--
Manganese	2190	--
Mercury	1	--
Lead, SPLP	--	0.028

Parameter (ppm)	B (2" to 2')	C (28' to 30')
Arsenic	--	56.6
Lead	751	--
Lead, SPLP	0.098	0.033

Parameter (ppm)	B (2" to 2')
Copper	389
Mercury	0.93

Parameter (ppm)	B (2" to 2')
Mercury	1.6

Parameter (ppm)	B (2" to 2')	C (25' to 30')
Arsenic	18.8	--
Lead	1670	740
Mercury	0.9	--

Parameter (ppm)	B (2" to 2')
Arsenic	19
Copper	361
Lead	1340
Mercury	14.1
Lead, SPLP	0.041

Parameter (ppm)	B (2" to 2')
Arsenic	45.1
Lead	524
Mercury	1.6
Lead, SPLP	0.031
Mercury, SPLP	0.0021

Parameter (ppm)	B (2' to 4')	D (5' to 10')
Lead, SPLP	0.035	--
Arsenic, SPLP	--	0.029

Parameter (ppm)	B (2" to 2')
Arsenic	16
Lead	1010

Parameter (ppm)	B (1' to 2')
Arsenic	20.3
Copper	1740
Lead	2200
Mercury	11.6

Parameter (ppm)	B (2" to 2')
Barium	414

Parameter (ppm)	B (2" to 2')
Arsenic	19.4
Lead	963
Mercury	2

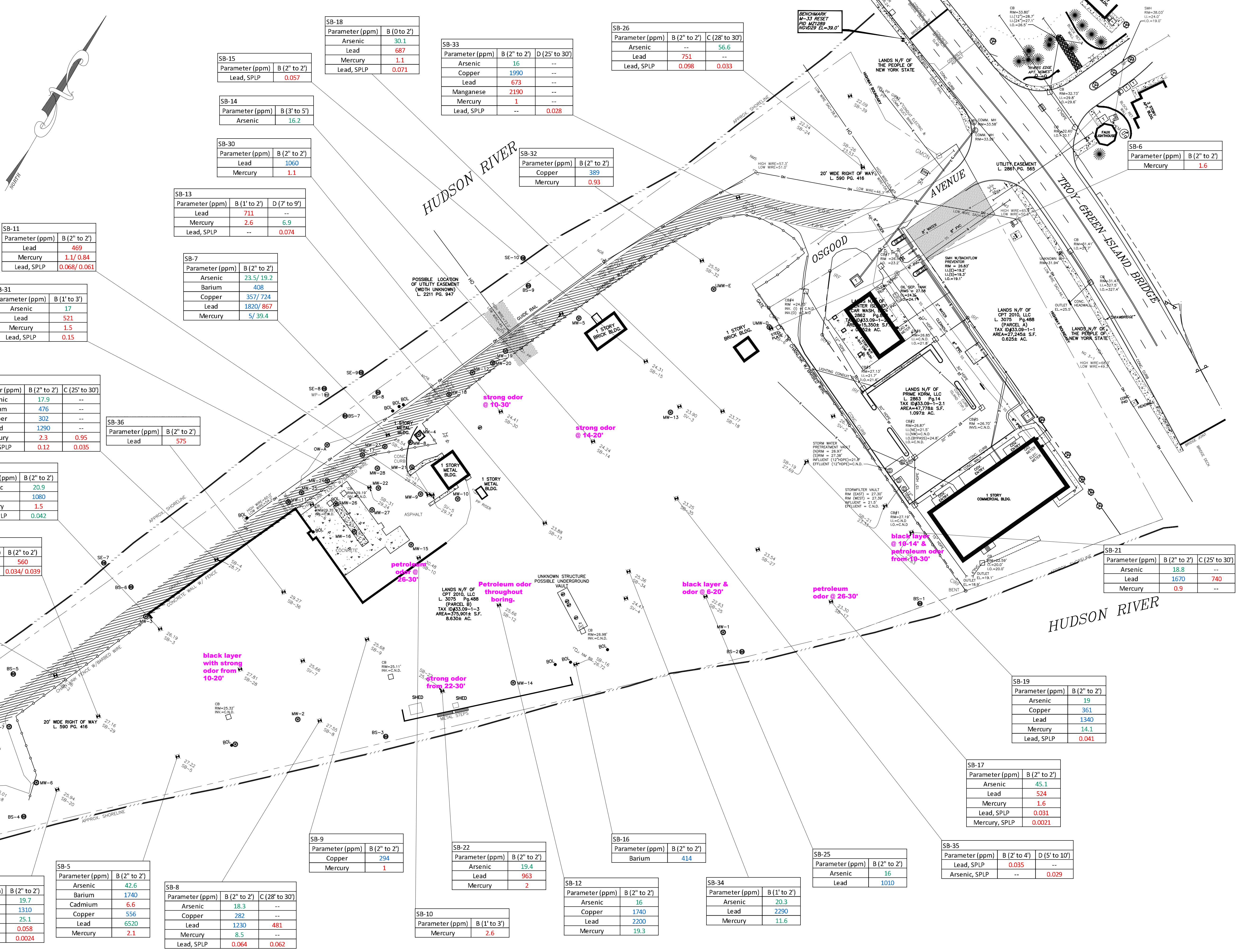
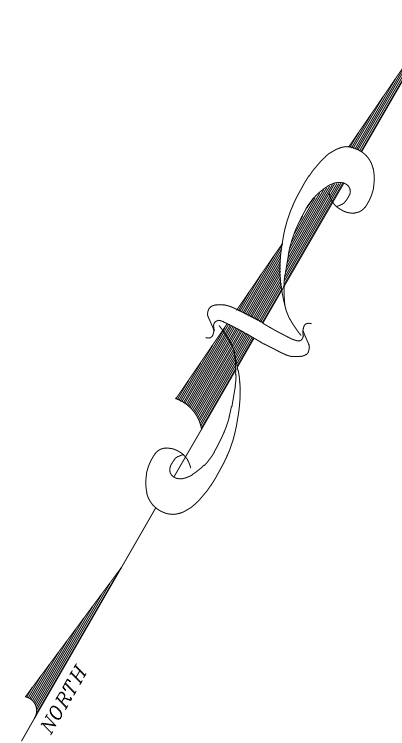
Parameter (ppm)	B (1' to 3')
Mercury	2.6

Parameter (ppm)	B (2" to 2')
Copper	294
Mercury	1

Parameter (ppm)	B (2" to 2')	C (28' to 30')
Arsenic	18.3	--
Copper	282	--
Lead	1230	481
Mercury	8.5	--
Lead, SPLP	0.064	0.062

Parameter (ppm)	B (2" to 2')
Arsenic	42.6
Barium	1740
Cadmium	6.6
Copper	556
Lead	6520
Mercury	2.1

Parameter (ppm)	B (2" to 2')
Arsenic	19.7
Lead	1310
Mercury	25.1
Lead, SPLP	0.058
Mercury, SPLP	0.0024



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- IRV IRON ROD FOUND
- GRANITE MONUMENT FOUND
- UTILITY POLE
- MONITORING WELL
- ▨ ACCESS EASEMENT
- ▨ UTILITY EASEMENT
- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- SB-#/100.0 SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial
Benzo(a)anthracene	1	5.6	11
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	5.6	11
Indeno(1,2,3-cd)pyrene	0.5	5.6	11

SOIL STANDARDS FROM PART 375

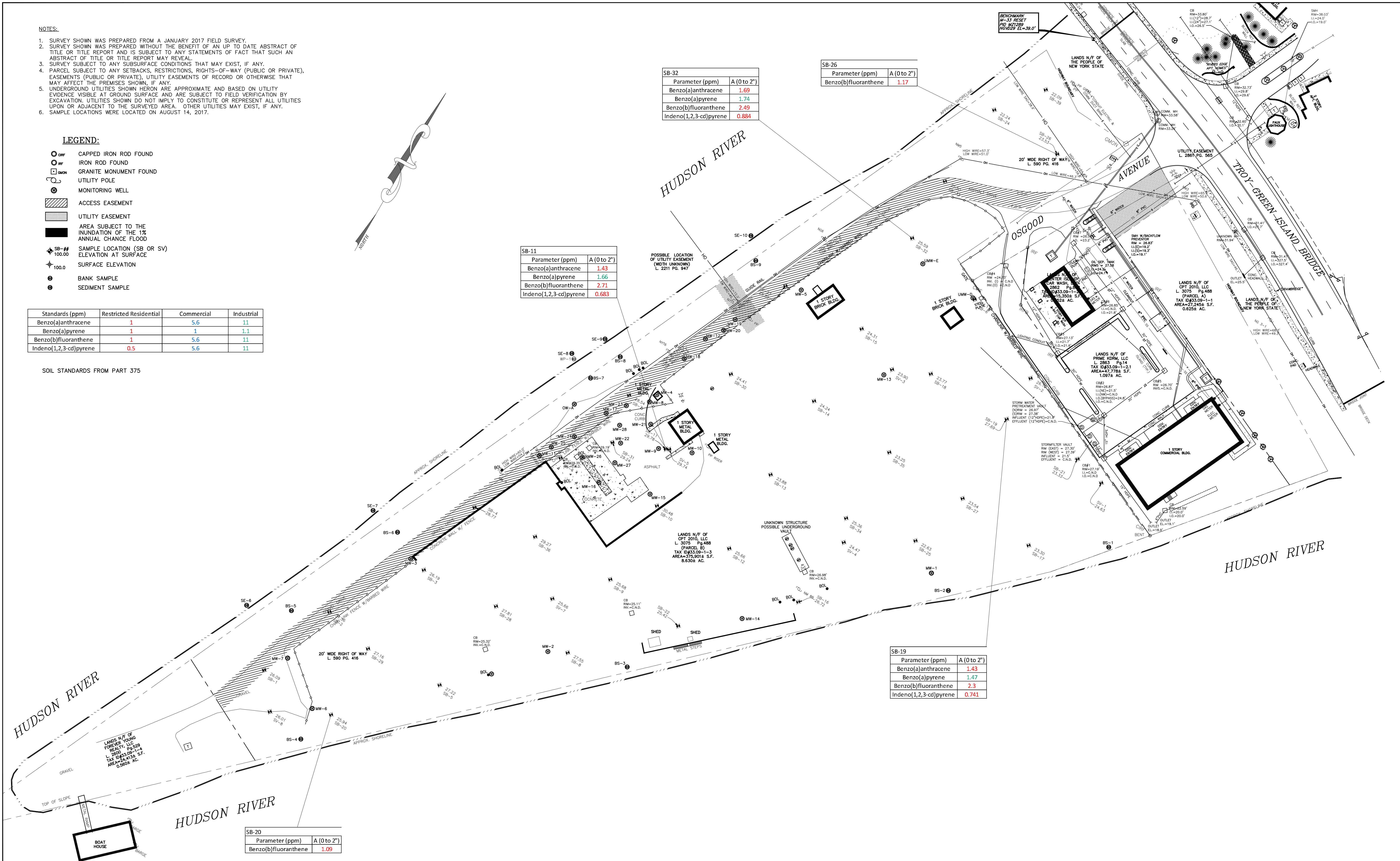
Parameter (ppm)	A (0 to 2")
Benzo(a)anthracene	1.69
Benzo(a)pyrene	1.74
Benzo(b)fluoranthene	2.49
Indeno(1,2,3-cd)pyrene	0.884

Parameter (ppm)	A (0 to 2")
Benzo(b)fluoranthene	1.17

Parameter (ppm)	A (0 to 2")
Benzo(a)anthracene	1.43
Benzo(a)pyrene	1.66
Benzo(b)fluoranthene	2.71
Indeno(1,2,3-cd)pyrene	0.683

Parameter (ppm)	A (0 to 2")
Benzo(a)anthracene	1.43
Benzo(a)pyrene	1.47
Benzo(b)fluoranthene	2.3
Indeno(1,2,3-cd)pyrene	0.741

Parameter (ppm)	A (0 to 2")
Benzo(b)fluoranthene	1.09



349 NORTHERN BLVD. SUITE 3
ALBANY, NY 12204-1032
P:518.453.2203
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W.O. No.	REVISION	DATE	APR
DRAWING STATUS FOR REFERENCE ONLY			
SOUTH ISLAND APARTMENTS SITE 1 OSGOOD AVENUE/CENTER ISLAND, TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK			
SOUTH ISLAND APARTMENTS SITE SURFACE SOILS - SVOCs			
SCALE: NTS			
DRAWING No. R-3			
SHEET REV No.			

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- AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
- ⊕ SB-# SURFACE ELEVATION AT SURFACE
- ⊕ 100.0 SURFACE ELEVATION
- ⊕ BANK SAMPLE
- ⊕ SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial
Benzo(a)anthracene	1	5.6	11
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	5.6	11
Benzo(k)fluoranthene	3.9	56	110
Chrysene	3.9	56	110
Dibenz(a,h)anthracene	0.33	0.56	1.1
Indeno(1,2,3-cd)pyrene	0.5	5.6	11

SOIL STANDARDS FROM PART 375

Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.1
Benzo(b)fluoranthene	1.7

Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.83
Benzo(a)pyrene	1.9
Benzo(b)fluoranthene	2.77
Indeno(1,2,3-cd)pyrene	0.795

Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.04
Benzo(a)pyrene	1.37
Benzo(b)fluoranthene	1.59
Indeno(1,2,3-cd)pyrene	0.841

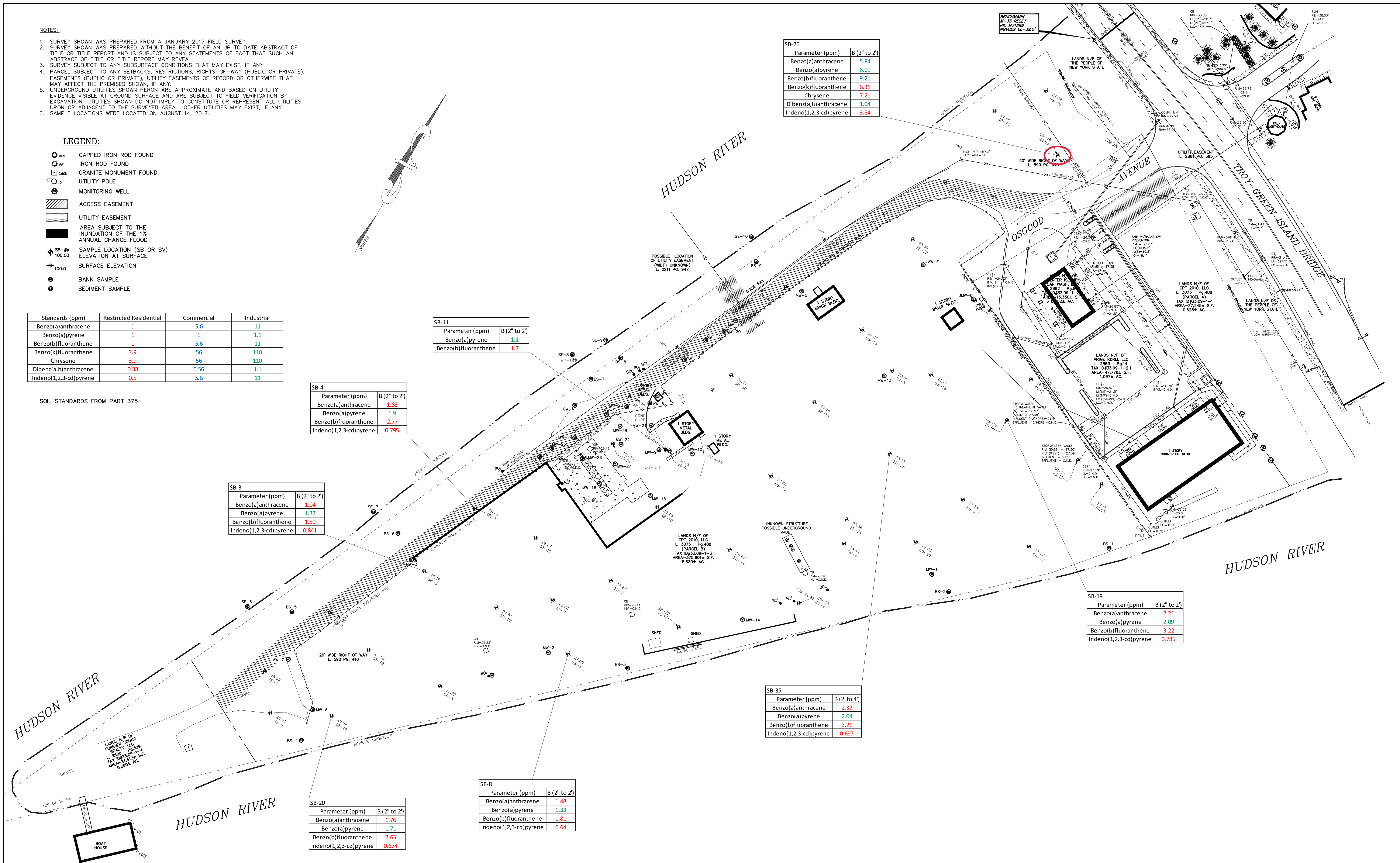
Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	5.84
Benzo(a)pyrene	6.09
Benzo(b)fluoranthene	9.21
Benzo(k)fluoranthene	6.31
Chrysene	7.21
Dibenz(a,h)anthracene	1.04
Indeno(1,2,3-cd)pyrene	3.84

Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	2.21
Benzo(a)pyrene	2.09
Benzo(b)fluoranthene	3.22
Indeno(1,2,3-cd)pyrene	0.735

Parameter (ppm)	B (2" to 4')
Benzo(a)anthracene	2.37
Benzo(a)pyrene	2.04
Benzo(b)fluoranthene	3.21
Indeno(1,2,3-cd)pyrene	0.697

Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.48
Benzo(a)pyrene	1.33
Benzo(b)fluoranthene	1.81
Indeno(1,2,3-cd)pyrene	0.64

Parameter (ppm)	B (2" to 2')
Benzo(a)anthracene	1.76
Benzo(a)pyrene	1.71
Benzo(b)fluoranthene	2.65
Indeno(1,2,3-cd)pyrene	0.674

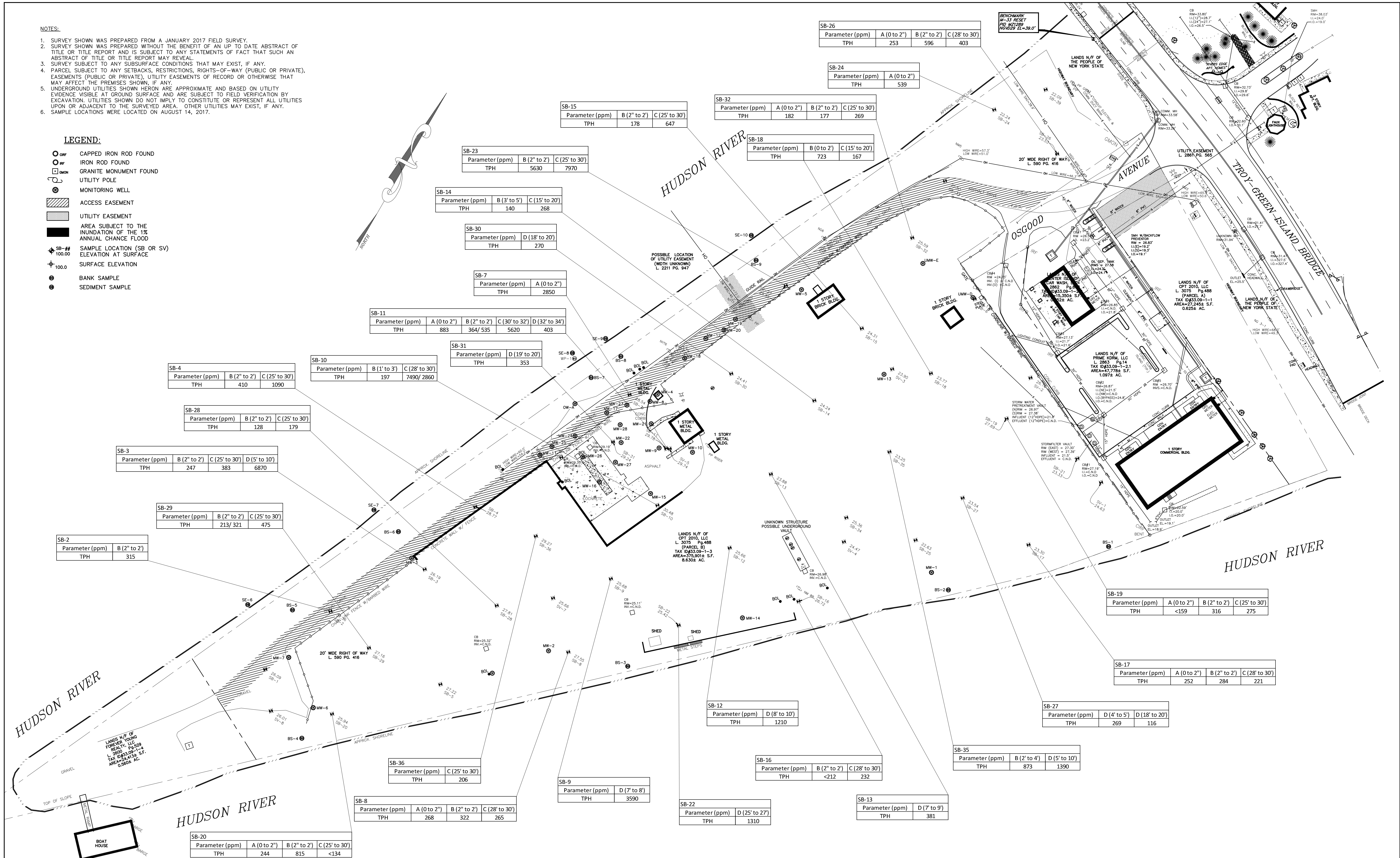


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- IRON ROD FOUND
- GRANITE MONUMENT FOUND
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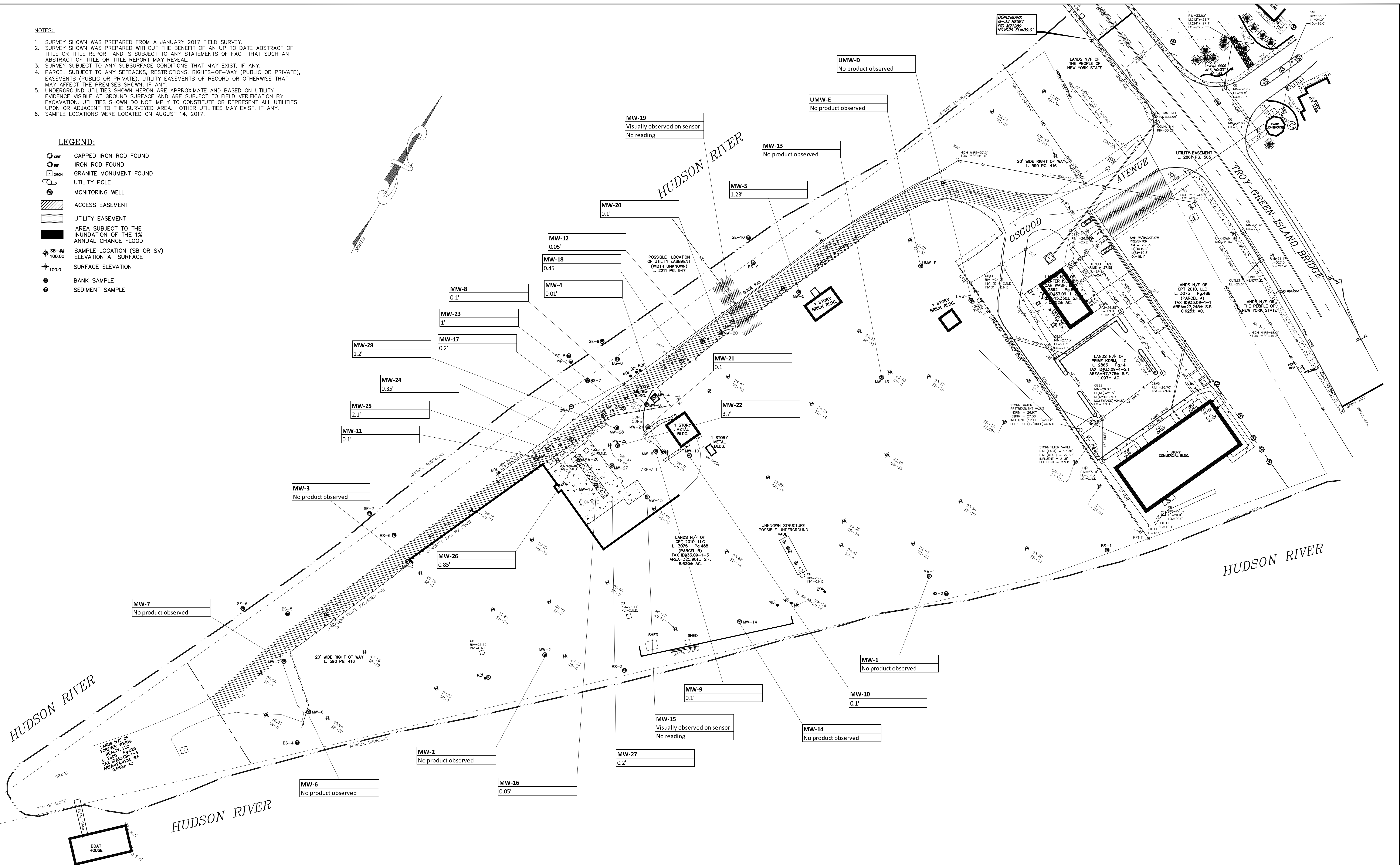


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	CAPPED IRON ROD FOUND
	IRON ROD FOUND
	GRANITE MONUMENT FOUND
	UTILITY POLE
	MONITORING WELL
	ACCESS EASEMENT
	UTILITY EASEMENT
	AREA SUBJECT TO THE INUNDATION OF THE 1% ANNUAL CHANCE FLOOD
	SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
	SURFACE ELEVATION
	BANK SAMPLE
	SEDIMENT SAMPLE

SV-3	
Parameter	Result (µg/m3)
Benzene	1
Ethylbenzene	5.9/ 5.8
m&p-Xylene	15/ 14
o-Xylene	6.3/ 6.1
Toluene	55/ 56

Ambient Air (AA-01)	
Parameter	Result (µg/m3)
Benzene	0.45J
Ethylbenzene	ND
m&p-Xylene	0.52J
o-Xylene	ND
Toluene	1.2

SV-5	
Parameter	Result (µg/m3)
Benzene	1.1
Ethylbenzene	6.4
m&p-Xylene	17
o-Xylene	7.3
Toluene	20

SV-6	
Parameter	Result (µg/m3)
Benzene	13
Ethylbenzene	15
m&p-Xylene	37
o-Xylene	17
Toluene	49

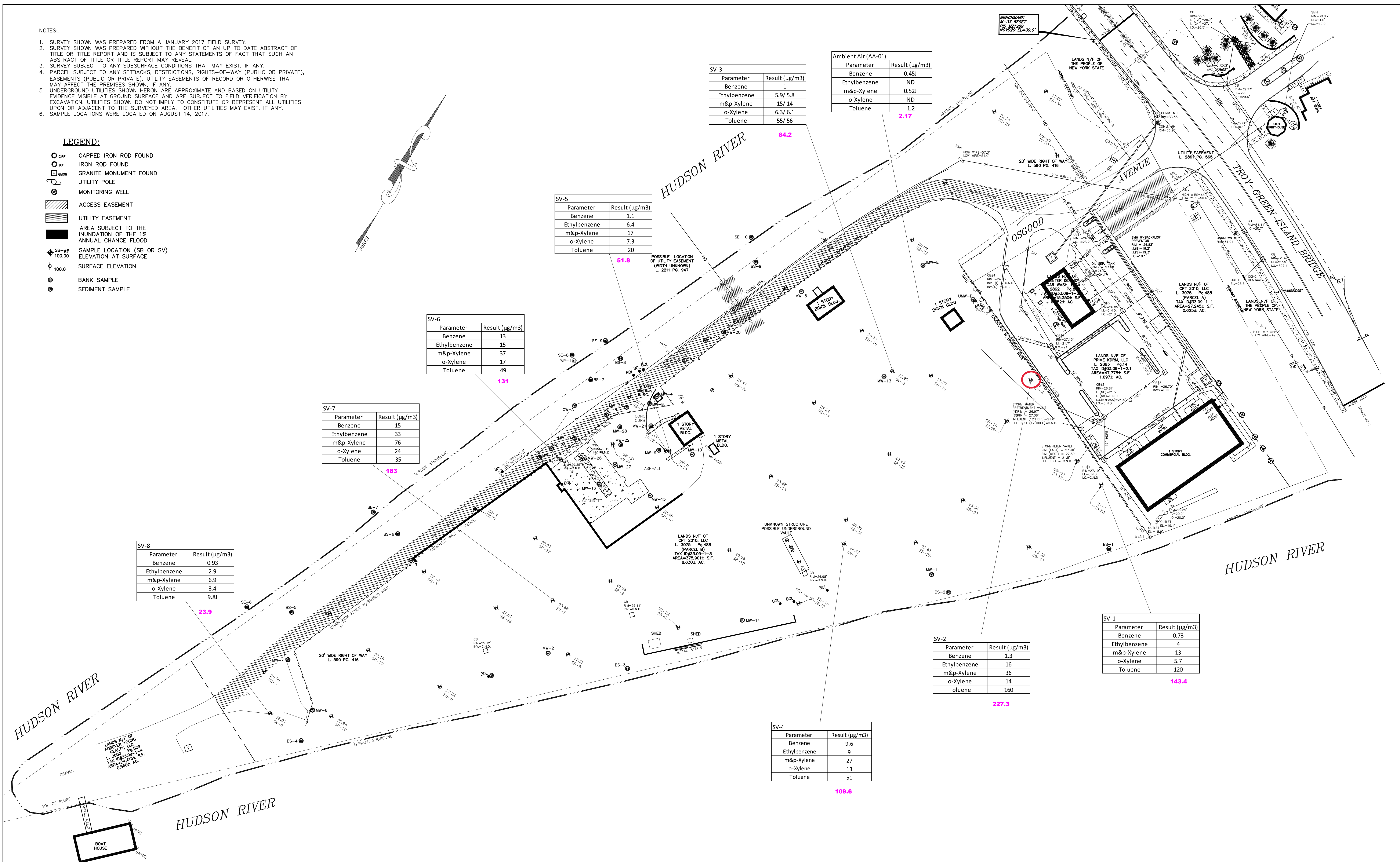
Parameter	Result (µg/m3)
Benzene	15
Ethylbenzene	33
m&p-Xylene	76
o-Xylene	24
Toluene	35

SV-8	
Parameter	Result (µg/m3)
Benzene	0.93
Ethylbenzene	2.9
m&p-Xylene	6.9
o-Xylene	3.4
Toluene	9.8J

SV-2	
Parameter	Result (µg/m3)
Benzene	1.3
Ethylbenzene	16
m&p-Xylene	36
o-Xylene	14
Toluene	160

SV-1	
Parameter	Result (µg/m3)
Benzene	0.73
Ethylbenzene	4
m&p-Xylene	13
o-Xylene	5.7
Toluene	120

SV-4	
Parameter	Result (µg/m3)
Benzene	9.6
Ethylbenzene	9
m&p-Xylene	27
o-Xylene	13
Toluene	51



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- 100.0 SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppb)	Groundwater, Part 703 Standard
Aldrin	ND
Arsenic	25
Benzene	1
Endrin	ND
Isopropylbenzene	5
Total Phenol	1
Total PCB	0.09

Parameter (ppb)	Oct-17
Total PCB	0.3

Parameter (ppb)	Sep-17	Oct-17
Benzene	6.1	7.9
Endrin	-	0.0046
Total PCB	-	0.13

Parameter (ppb)	Oct-17
Benzene	1.2
Endrin	0.0013
Total PCB	0.16

Parameter (ppb)	Oct-17
Phenol	1.5
Total PCB	0.32

Parameter (ppb)	Sep-17	Oct-17
Aldrin	-	0.00086
Arsenic, total	35.5	-
Arsenic, dissolved	35.3	-
Endrin	0.0072	-
Isopropylbenzene	8.7	-
Total PCB	0.85	0.45

Parameter (ppb)	Oct-17
Total PCB	0.45

Parameter (ppb)	Oct-17
Endrin	0.002
Total PCB	0.45

IRON AND MANGANESE AND SODIUM NOT SHOWN



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W.O. No.	REVISION	DATE	APR	DRAWING STATUS FOR REFERENCE ONLY	SOUTH ISLAND APARTMENTS SITE 1 OSGOOD AVENUE/CENTER ISLAND, TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK	SOUTH ISLAND APARTMENTS SITE GROUNDWATER EXCEEDANCES
					DRAWN BY: [blank] CHECKED BY: [blank]	SCALE: NTS DRAWING NO.: R-8 SHEET: [blank] OF [blank]

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- SB-# ELEVATION AT SURFACE
- 100.0 SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial	Groundwater (for SPLP)	Class B Sediment Guidance Values	Class C Sediment Guidance Values
Arsenic	16	16	16	0.025	10 to 33	>33
Barium	400	400	10000		--	--
Copper	270	270	10000		32 to 150	>150
Lead	400	1000	3900	0.025	36 to 130	>130
Mercury	0.81	2.8	5.7	0.0007	0.2 to 1	>1
Silver	180	1500	6800		1 to 2.2	>2.2
Zinc	10000	10000	10000		120 to 460	>460

SOIL STANDARDS FROM PART 375
GROUNDWATER STANDARDS FROM PART 703
SEDIMENT GUIDANCE VALUES FROM "SCREENING AND
ASSESSMENT OF CONTAMINATED SEDIMENT," NYSDEC, 2014

Parameter (ppm)	0 to 6"
Copper	42.9
Lead	142
Mercury	0.65
Silver	1.3
Zinc	141

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Mercury	1	1.7
Lead, SPLP	--	0.044

Parameter (ppm)	0 to 6"
Copper	35.2
Lead	43.3
Silver	1.8

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Lead	436	813
Mercury	1.3	2.6
Lead, SPLP	0.026	0.062

Parameter (ppm)	0 to 6"
Silver	1.2/ 1.4

Parameter (ppm)	B (6" to 2')
Lead, SPLP	0.027

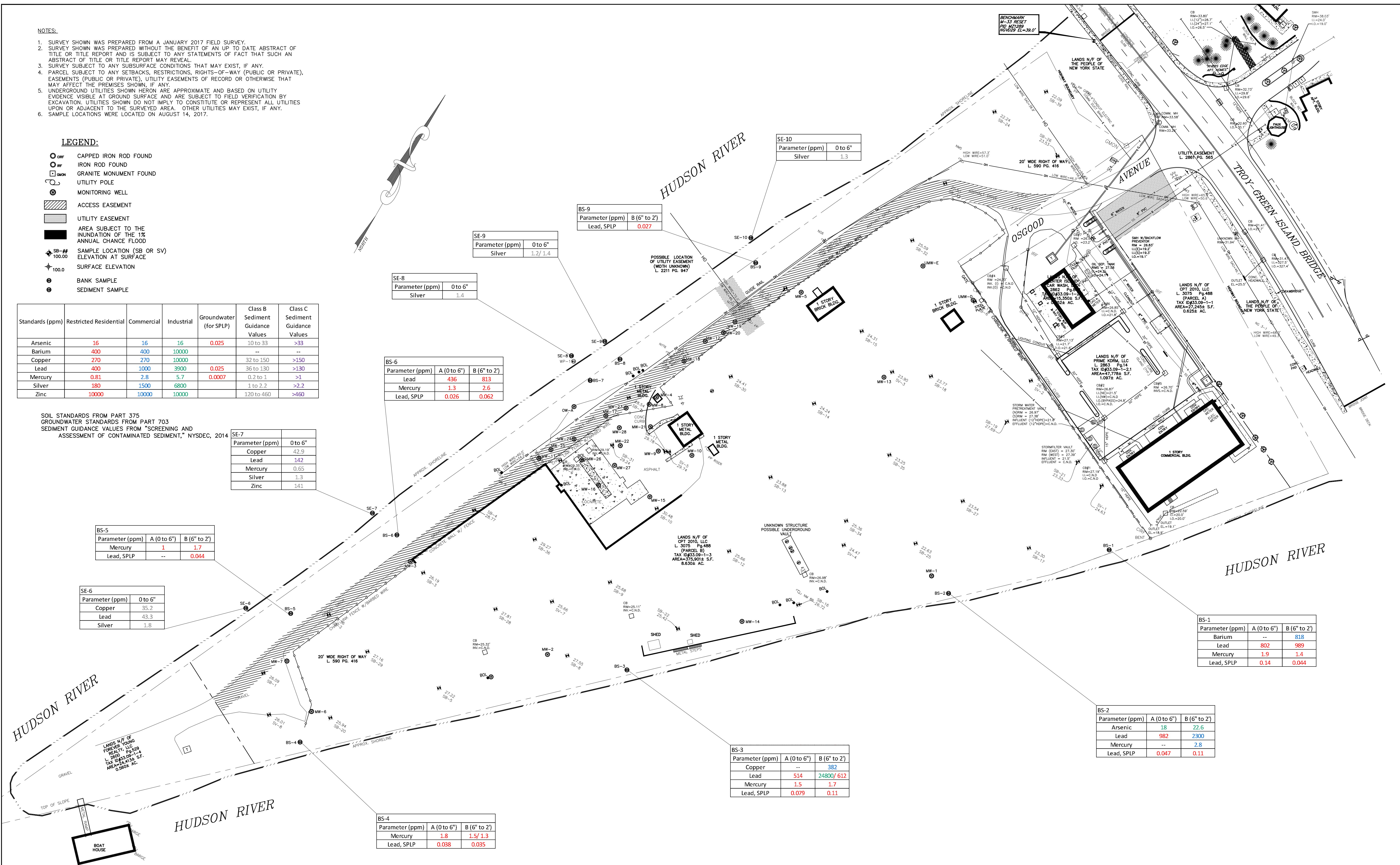
Parameter (ppm)	0 to 6"
Silver	1.3

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Copper	--	382
Lead	514	24800/ 612
Mercury	1.5	1.7
Lead, SPLP	0.079	0.11

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Mercury	1.8	1.5/ 1.3
Lead, SPLP	0.038	0.035

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Barium	--	818
Lead	802	989
Mercury	1.9	1.4
Lead, SPLP	0.14	0.044

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Arsenic	18	22.6
Lead	982	2300
Mercury	--	2.8
Lead, SPLP	0.047	0.11



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W.O.No.	REVISION	DATE	BY	APR.

DRAWING STATUS
FOR
REFERENCE
ONLY

SOUTH ISLAND APARTMENTS SITE 1 OSGOOD AVENUE/CENTER ISLAND, TOWN OF GREEN ISLAND, ALBANY COUNTY, NEW YORK	SOUTH ISLAND APARTMENTS SITE BANK AND SEDIMENT - METALS
SCALE NTS	DRAWING NO. R-9
SHEET REV. NO.	

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- SB-## SAMPLE LOCATION (SB OR SV) ELEVATION AT SURFACE
- 100.0 SURFACE ELEVATION
- BANK SAMPLE
- SEDIMENT SAMPLE

Standards (ppm)	Restricted Residential	Commercial	Industrial
Benzo(a)anthracene	1	5.6	11
Benzo(a)pyrene	1	1	1.1
Benzo(b)fluoranthene	1	5.6	11
Benzo(k)fluoranthene	3.9	56	110
Chrysene	3.9	56	110
Dibenz(a,h)anthracene	0.33	0.56	1.1
Indeno(1,2,3-cd)pyrene	0.5	5.6	11

SOIL STANDARDS FROM PART 375

NO EXCEEDANCES FOR SVOCs WERE DETECTED IN SEDIMENT SAMPLES.

Parameter (ppm)	B (6" to 2')
Benzo(a)anthracene	2.51
Benzo(a)pyrene	2.35
Benzo(b)fluoranthene	3.17
Indeno(1,2,3-cd)pyrene	1.06

9.09

Parameter (ppm)	A (0 to 6")
Benzo(b)fluoranthene	1.22

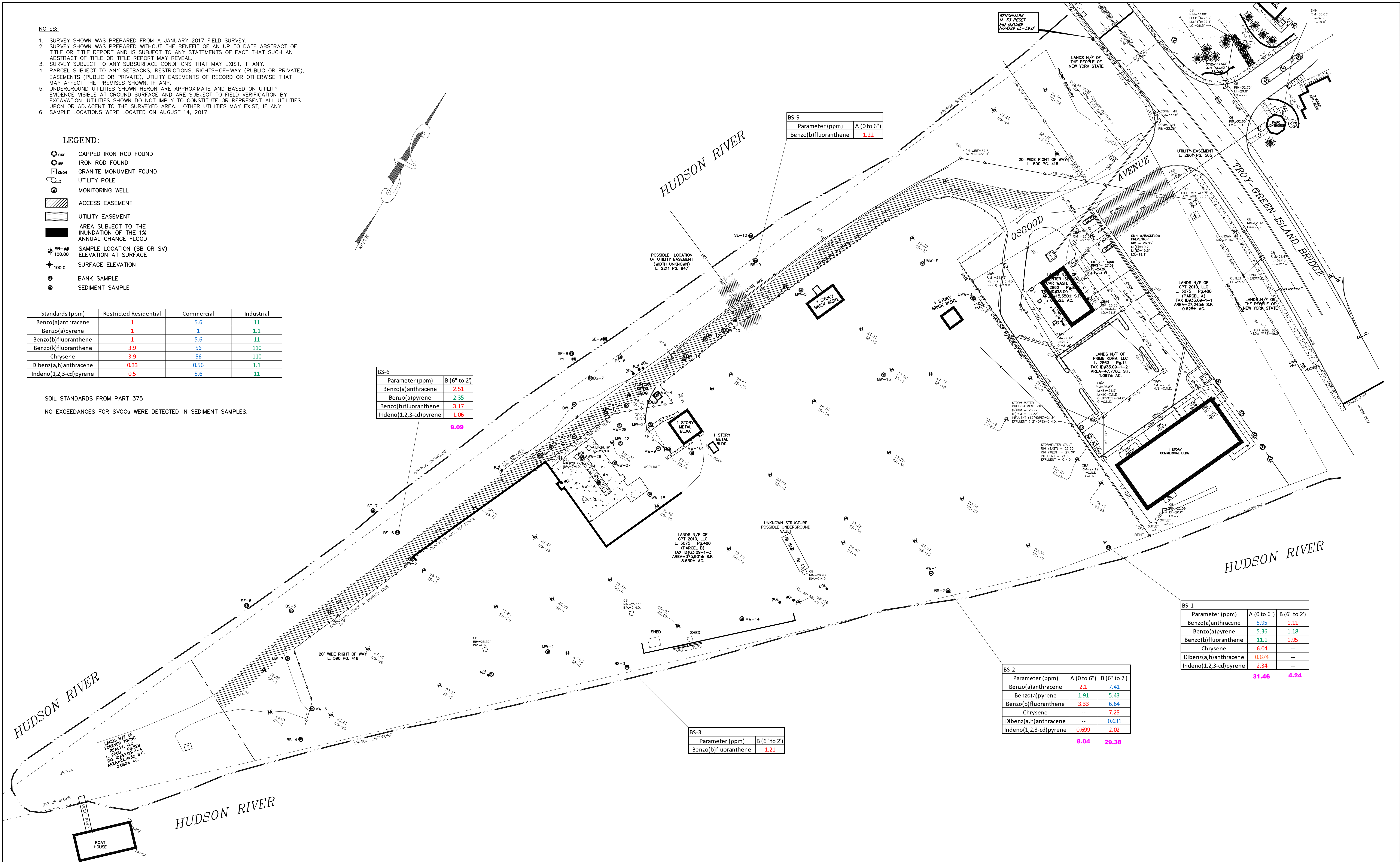
Parameter (ppm)	A (0 to 6")	B (6" to 2')
Benzo(a)anthracene	5.95	1.11
Benzo(a)pyrene	5.36	1.18
Benzo(b)fluoranthene	11.1	1.95
Chrysene	6.04	--
Dibenz(a,h)anthracene	0.674	--
Indeno(1,2,3-cd)pyrene	2.34	--

31.46 4.24

Parameter (ppm)	A (0 to 6")	B (6" to 2')
Benzo(a)anthracene	2.1	7.41
Benzo(a)pyrene	1.91	5.43
Benzo(b)fluoranthene	3.33	6.64
Chrysene	--	7.25
Dibenz(a,h)anthracene	--	0.631
Indeno(1,2,3-cd)pyrene	0.699	2.02

8.04 29.38

Parameter (ppm)	B (6" to 2')
Benzo(b)fluoranthene	1.21

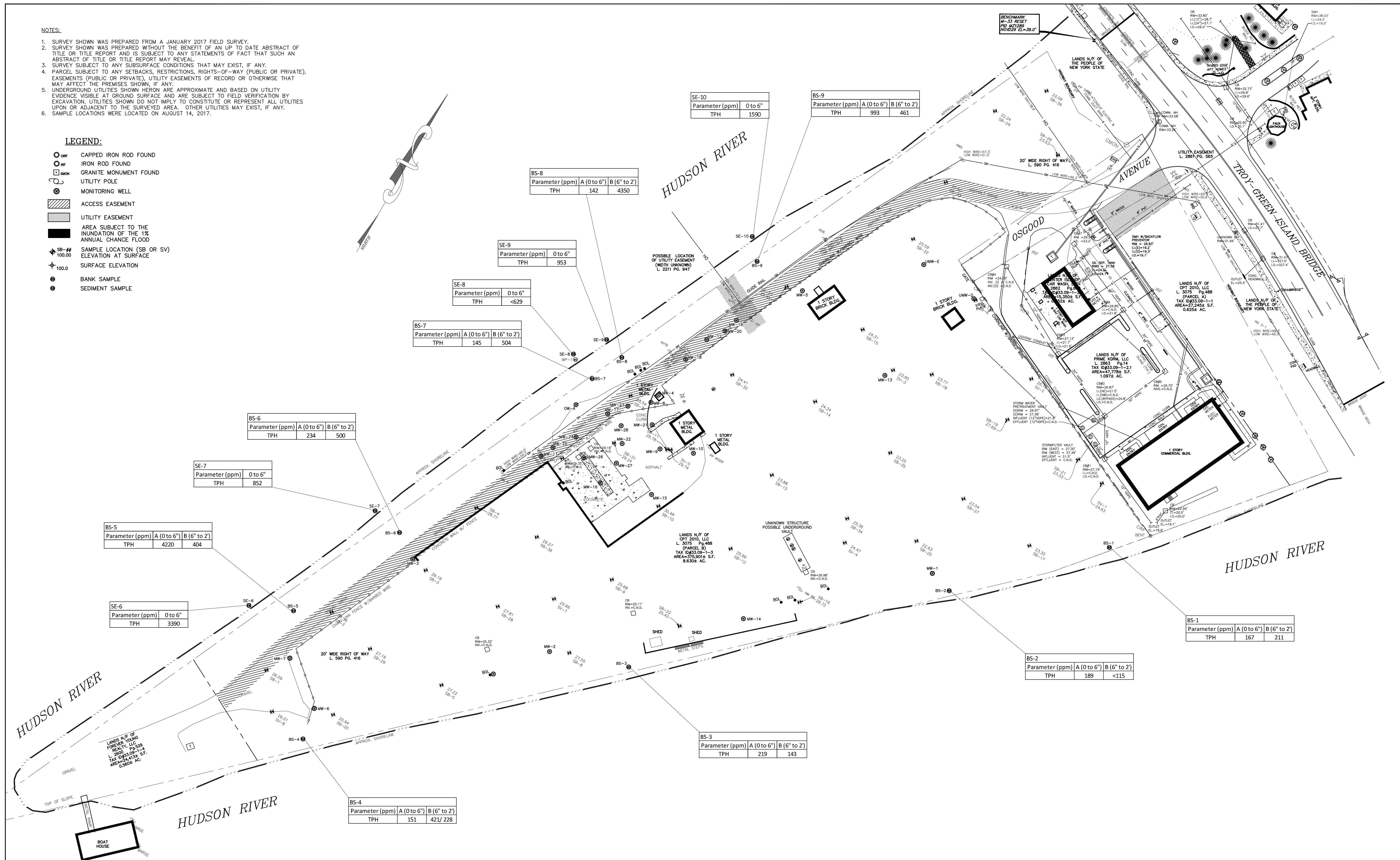


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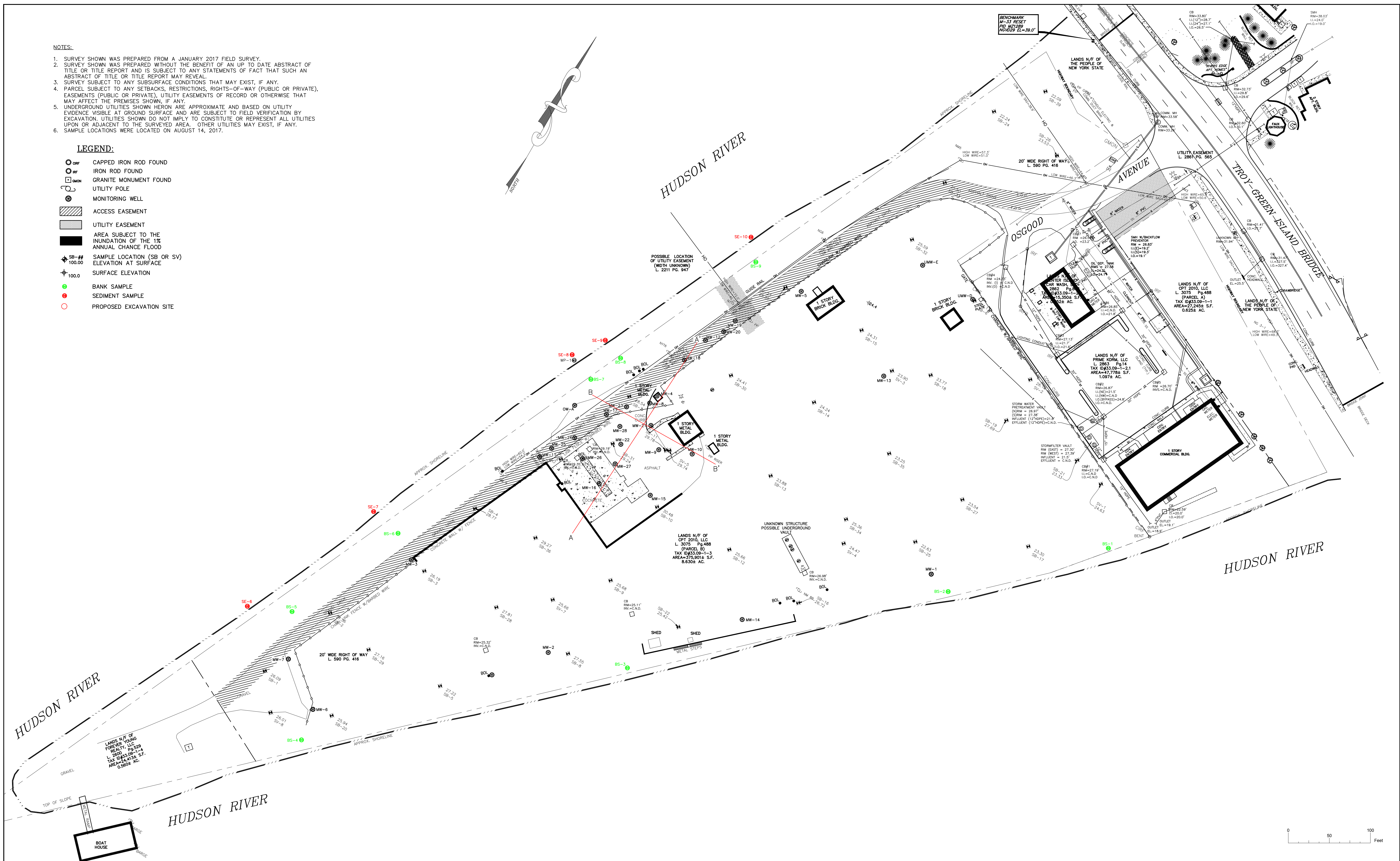


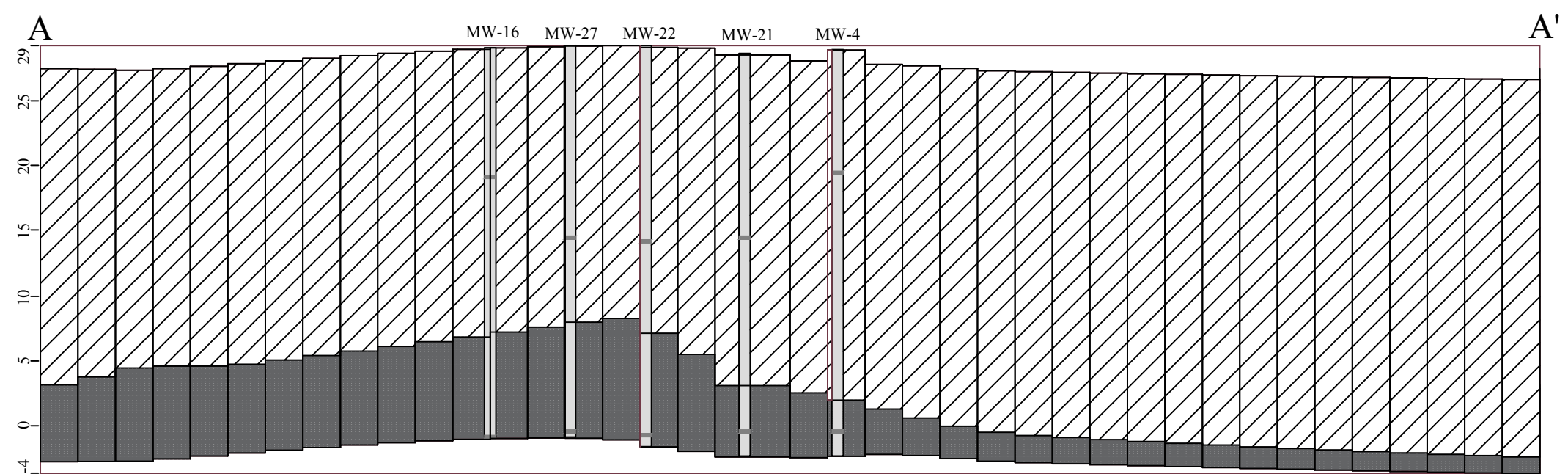
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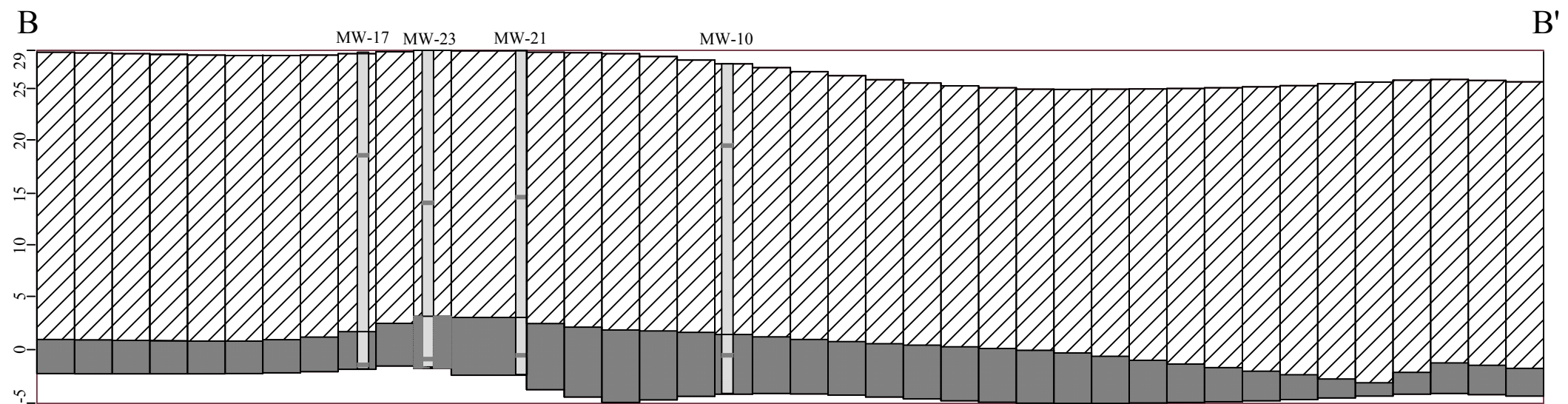
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- SEDIMENT SAMPLE
- PROPOSED EXCAVATION SITE





LEGEND:

-  HISTORICAL FILL (I.E. GRAVEL, BRICK, FILL, INTERMITTENT THIN CLAY LAYERS)
-  CLAY



LEGEND:

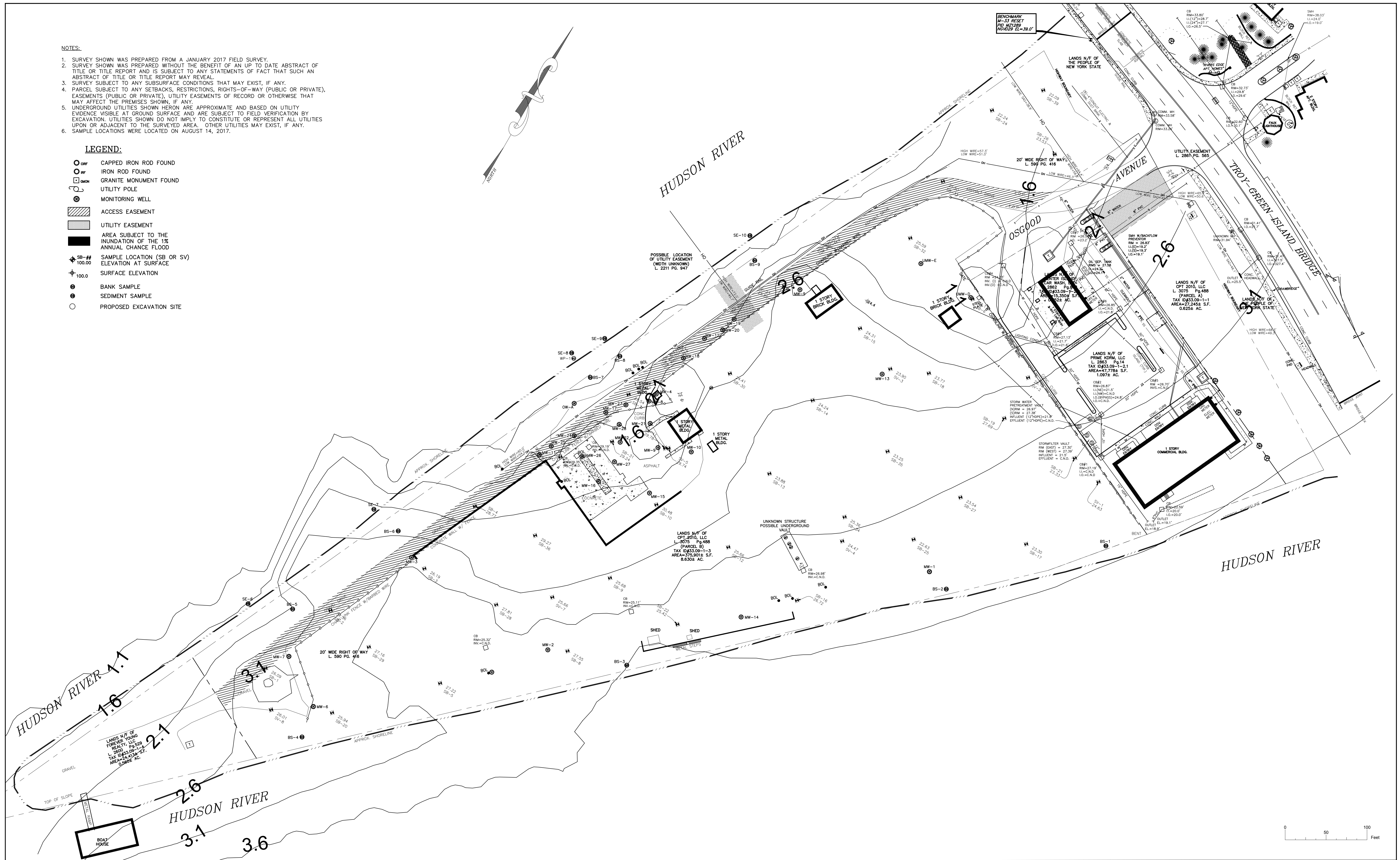
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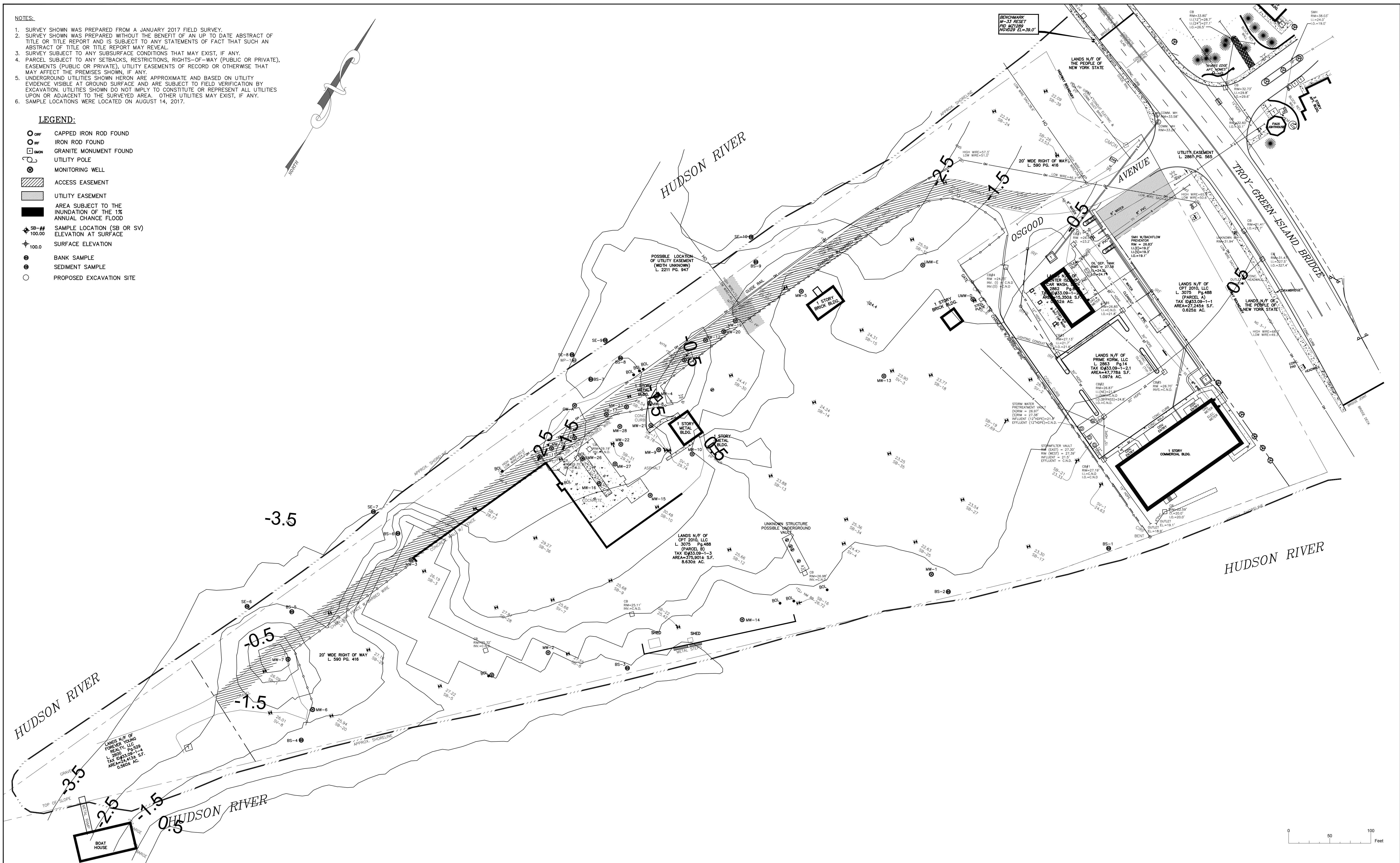


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APPENDIX A

CONCEPTUAL SITE MODEL



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A Woman Owned Business Enterprise (WBE)

CONCEPTUAL SITE MODEL

**South Island Apartments Site
1 Osgood Avenue/Center Island,
Town of Green Island, Albany County, New York
BCP Site # C401074**

November 2017

Prepared for:
South Island Apartments, LLC
c/o Couch White, LLP
540 Broadway, 7th Floor
Albany, New York 12201-2222

Prepared by:



**349 Northern Blvd. STE 3
Albany, NY 12205**

Envirospec Engineering Project E17-1600

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1.0 CONCEPTUAL SITE MODEL

The conceptual site model considers the following:

- How was the site impacted?
- Has a source area been identified? Are there multiple sources?
- Is there a historical or continuing source of contamination?
- Is there evidence of an off-site source area?
- What on-site media are currently impacted by contamination?
- What are potential contaminant pathways that could lead to future migration in soil, soil gas, and/or groundwater?
- What are the actual and potential human and/or environmental receptors?

The following sections address these questions based on the information available from historical sources and the data collected during the 2017 Remedial Investigation (RI).

2.0 PRESENCE OF ON-SITE SOURCE AREAS

The primary contaminants of concern (COCs) at this site, based on soil data collected historically and during the RI, are metals, specifically lead, mercury, and arsenic, and SVOCs.

The metals detected above CSCOs are consistent with the historic fill at the site, and there is no clear source area based on historical data and the data collected in the RI. In general, detections of SVOCs are below CSCOs, except for benzo(a)pyrene, for all soil borings except for the shallow subsurface sample at SB-26. The elevated concentrations of benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene in this area could be associated with a localized historical release. There is no evidence of migration to deeper soils in this area based on the samples collected at 28-30' bgs.

In addition to metals and SVOCs, there are also the LNAPL-impacted areas near the former loading rack and MW-5. The LNAPL impacts are associated with spills of fuel oil during historical operations at the site. Drawing R-6 shows the LNAPL thicknesses in monitoring wells at the site.

In the former loading rack area, LNAPL impacts are primarily in the center of the loading rack area and along the edge of the adjacent roadway. LNAPL thickness decreases significantly along the northern perimeter of the area at MW-4, MW-8, MW-21, MW-9, and MW-10. No significant



LNAPL layer was measured in MW-15 along the eastern side of the area, though a small amount of oil was observed on the outside of the interface probe when it was removed from the well.

Though about two (2) feet of LNAPL was observed in MW-25 along the southern boundary of the former loading rack, adjacent well MW-11 only showed a thickness of 0.1 feet. Wells further south along the roadway (MW-3 and MW-7) show no sign of LNAPL impacts. Though there were some elevated detections of TPH in bank soil samples, no indications of seeps from the loading rack area to the Hudson on the western side of the site have been observed. TPH was non-detect in the pore water sample collected near this area at WP-1.

There is one well north of the loading rack area (MW-5) that shows more than one (1) foot of LNAPL at the top of the water table. This is consistent with high TPH data at nearby soil boring location SB-23. Given the distance between this well and the former loading rack area, this is potentially due to an isolated spill. Wells MW-12, MW-18, MW-19, and MW-20, which are located between MW-5 and the former loading area, show relatively little LNAPL impact compared to MW-5. Additional characterization is planned between MW-5 and the former loading rack area to further define the extent of proposed deep excavations to address the LNAPL impacts. This information can also be used to further refine the conceptual model in this area.

3.0 POTENTIAL FOR OFF-SITE SOURCES

There are no indications of an off-site source at the site. The adjacent property was historically remediated to address petroleum contamination. Groundwater and soil data collected across the northern boundary of the site near the property boundary do not indicate the presence of off-site source areas.

4.0 POTENTIAL FUTURE MIGRATION

The following pathways were considered in evaluating the potential for future migration of contaminants at the site:

- Migration from shallow to deeper soils
- Migration from soil to groundwater
- Migration from soil and/or groundwater to soil gas
- Groundwater migration across site
- Migration to surface water



The potential significance of these pathways is discussed in the following sections. Metals, SVOCs, VOCs, and LNAPL are addressed for relevant pathways.

4.1 Migration from shallow to deeper soils

Exceedances of CSCOs for metals and SVOCs are primarily observed in the shallow soil samples within the first two (2) feet of the subsurface, with very few exceedances observed in the groundwater interface soil samples at approximately 25-30' bgs. This indicates that the metals and SVOCs in shallow soils are not migrating through the subsurface. This is not considered to be a significant pathway for future contaminant migration at this site.

4.2 Migration from soil to groundwater

The lack of significant detections of metals and SVOCs of concern in groundwater at this site indicates that migration from soil to groundwater is not occurring, and it is not considered to be a pathway of concern for future contaminant migration.

4.3 Migration from soil and/or groundwater to soil gas

The soil vapor samples collected during the RI indicate the presence of BTEX at several locations across the site. This indicates that migration to soil gas may be occurring within the subsurface. Given the depth to groundwater and the low detections of BTEX in groundwater, the impacts to soil gas would likely be due to migration from soil contamination, however, exceedances of CSCOs for VOCs were not observed at this site. VOCs were detected at low levels in soil, however.

4.4 Groundwater migration across site

Migration of contaminants in groundwater is not a significant concern for metals, SVOCs, or VOCs given that few exceedances of groundwater standards were observed for these contaminants. The potential for LNAPL migration was also considered when preparing the conceptual site model. The measured LNAPL thicknesses from the 2017 were compared to historical data available from 2005 to 2016.

LNAPL impacts in most wells have decreased significantly over time after the extraction events. The wells showing the highest product thicknesses are MW-5, MW-22, MW-25, MW-26, and MW-28.



The remaining wells were installed more recently and have fewer historical observations available. However, it should be noted that these wells are located towards the center of the loading rack area. The wells that have shown decreases over time are around the perimeter of the former loading rack. This would seem to indicate that the impacts are localized and that significant migration outside of the former loading rack area is not expected.

4.5 Migration to surface water

There are no indications of migration of contaminants to surface water based on the results from the pore water sample WP-1. These results are provided in Table 14 of Appendix E of the RI Report.

5.0 POTENTIAL RECEPTORS

Based on the potential migration pathways reviewed in Section 4.0, the only potential pathway of concern would be the migration to soil gas due to soil gas results. This is addressed further within the Qualitative Human Health Exposure Assessment submitted with the RI Report as Appendix F. Mitigation of the exposure pathway is also discussed. Other potential exposure concerns related to the presence of COCs at the site are addressed within that assessment. Potential environmental receptors are considered within the Fish and Wildlife Resources Impact Analysis submitted with the RI Report as Appendix G.



APPENDIX B

SOIL BORING LOGS



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

Soil Boring: SB-1

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	22"	0.0	Gravel and brick.
3 — 4 —	2 – 4		0.0	Fill, gravel and brick.
5 — 6 —	4 - 6		0.0	Fill, gravel and brick.
7 — 8 —	6 – 8	18"	0.0	Fill and gravel.
9 — 10 —	8 – 10		0.0	Fill and gravel.
11 — 12 —	10 – 12	20"	0.0	Fill and gravel.
13 — 14 —	12 – 14		0.0	Fill and gravel.
15 — 16 —	14 – 16		0.0	Fill and gravel.
17 — 18 —	16 – 18	20"	0.0	Fill and gravel.
19 — 20 —	18 – 20		0.0	Fill and gravel.
21 — 22 —	20 – 22	28"	0.0	Clay.
23 — 24 —	22 – 24		0.0	Clay.
25 — 26 —	24 – 26		0.0	Clay.
27 — 28 —	26 – 28	30"	0.0	Clay.
29 — 30 —	28 – 30		0.0	Clay.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-1 BO was an offset soil boring.

Composite Sample Notes:

SB-1 BO – TAL metals.
SB-1 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.6
2"-2	0.6
2-4	0.6
4-6	0.7
6-8	0.7
8-10	0.7
10-12	0.5
12-14	0.5
14-16	0.6
16-18	0.6
18-20	0.6
20-22	0.3
22-24	0.3
24-26	0.2
26-28	0.2
28-30	0.2

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2" – 2'
Sample Time:	9:31
Sample ID:	SB-1 BO

Interval:	25' – 30'
Sample Time:	9:25
Sample ID:	SB-1 C

DATE: 7/27/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-1

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-2

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	32"	0.1	Brick, glass, gravel and fill.
3 4	2 – 4		0.1	Brick, glass, gravel and fill.
5 6	4 - 6		0.1	Brick, glass, gravel and fill.
7 8	6 – 8	0	NA	NA
9 10	8 – 10		NA	NA
11 12	10 – 12	13"	0.5	Fill and brick.
13 14	12 – 14		0.5	Fill and brick.
15 16	14 – 16	18"	0.5	Fill and brick.
17 18	16 – 18		0.0	Fill, clay and brick.
19 20	18 – 20		0.0	Fill, clay and brick.
21 22	20 – 22	16"	0.0	Fill.
23 24	22 – 24		0.0	Fill.
25 26	24 – 26	16"	0.0	Clay with gravel.
27 28	26 – 28		0.0	Clay with gravel.
29 30	28 – 30		0.0	Clay with gravel.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-2 BO was an offset soil boring.

Composite Sample Notes:

SB-2 BO – Full analysis.
SB-2 C – TAL Metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	1.3
2"-2	1.3
2-4	1.3
4-6	NA
6-8	NA
8-10	NA
10-12	0.8
12-14	0.8
14-16	0.8
16-18	0.8
18-20	0.8
20-22	2.0
22-24	2.0
24-26	0.5
26-28	0.5
28-30	0.5

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	10:47
Sample ID:	SB-2 BO
Interval:	25' – 30'
Sample Time:	11:15
Sample ID:	SB-2 C

DATE: 7/28/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-2

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-3

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	34"	0.0	Brick and fill.
3 — 4 —	2 – 4		0.0	Brick and fill.
5 — 6 —	4 – 6		0.0	Brick and fill.
7 — 8 —	6 – 8	15"	58.0	Fill and clay. Strong odor.
9 — 10 —	8 – 10		58.0	Fill and clay. Strong odor.
11 — 12 —	10 – 12	22"	4.5	Fill and some clay.
13 — 14 —	12 – 14		4.5	Fill and some clay.
15 — 16 —	14 – 16	21"	1.0	Fill, gravel and clay.
17 — 18 —	16 – 18		1.0	Fill and gravel.
19 — 20 —	18 – 20		1.0	Fill and gravel.
21 — 22 —	20 – 22	25"	2.5	Sand and clay.
23 — 24 —	22 – 24		2.5	Sand and clay.
25 — 26 —	24 – 26	42"	2.5	Clay with gravel.
27 — 28 —	26 – 28		0.0	Clay with gravel.
29 — 30 —	28 – 30		0.0	Clay with gravel.

Notes:

Performed By: Cascade
Groundwater Interface (▼):26ft

Extra sample (SD-3 D) taken from 5 – 10 ft at 8:46. To be analyzed for VOCs and TPH.

SB-3 BO was an offset soil boring.

Composite Sample Notes:

SB-3 BO – Full analysis.
SB-3 C – Full analysis .

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.4
2"-2	0.4
2-4	0.4
4-6	400.0
6-8	400.0
8-10	400.0
10-12	80.0
12-14	80.0
14-16	80.0
16-18	5.0
18-20	5.0
20-22	3.8
22-24	3.8
24-26	2.9
26-28	2.9
28-30	2.9

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	8:34
Sample ID:	SB-3 BO
Interval:	25' – 30'
Sample Time:	8:59
Sample ID:	SB-3 C

DATE: 7/28/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-3

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-4

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	31"	0.0	Fill and some glass.
3 — 4 —	2 – 4		0.0	Fill and some glass.
5 — 6 —	4 – 6		0.0	Fill and some glass.
7 — 8 —	6 – 8	23"	0.0	Fill with small amount of clay.
9 — 10 —	8 – 10		0.0	Fill with small amount of clay.
11 — 12 —	10 – 12	26"	0.0	Fill and clay.
13 — 14 —	12 – 14		0.0	Fill and clay.
15 — 16 —	14 – 16		0.0	Fill and clay.
17 — 18 —	16 – 18	12"	0.0	Fill.
19 — 20 —	18 – 20		0.0	Fill.
21 — 22 —	20 – 22	18"	0.0	Fill.
23 — 24 —	22 – 24		0.0	Fill.
25 — 26 —	24 – 26		0.1	Clay.
27 — 28 —	26 – 28	45"	0.1	Clay.
29 — 30 —	28 – 30		0.1	Clay.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-4 BO was an offset soil boring.

Composite Sample Notes:

SB-4 BO – Full analysis.
SB-4 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.8
2"-2	0.8
2-4	0.8
4-6	0.6
6-8	0.6
8-10	0.6
10-12	1.0
12-14	1.0
14-16	1.0
16-18	0.8
18-20	0.8
20-22	0.2
22-24	0.2
24-26	1.2
26-28	1.2
28-30	1.2

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	10:12
Sample ID:	SB-4 BO
Interval:	25' – 30'
Sample Time:	10:39
Sample ID:	SB-4 C

DATE: 7/27/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-4

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-5

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	60"	0.0	Soil, gravel, and fill.
3 — 4 —	2 – 4		0.0	Brick, ash, and fill.
5 — 6 —	4 – 6		0.0	Clay.
7 — 8 —	6 – 8	12"	0.0	Fill, ash, and brick.
9 — 10 —	8 – 10		0.0	Clay.
11 — 12 —	10 – 12	12"	0.0	Fill and ash.
13 — 14 —	12 – 14		0.0	Ash and fill.
15 — 16 —	14 – 16		0.1	Fill and ash.
17 — 18 —	16 – 18	12"	0.1	Fill, ash, and wood.
19 — 20 —	18 – 20		0.1	Clay and fill.
21 — 22 —	20 – 22	48"	0.0	Clay and fill.
23 — 24 —	22 – 24		0.0	Fill and ash.
25 — 26 —	24 – 26		0.1	Ash and fill.
27 — 28 —	26 – 28	36"	0.1	Sand.
29 — 30 —	28 – 30		0.1	Sand and rock.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-5 BO was an offset soil boring.

Composite Sample Notes:

SB-5 A- TAL metals.
SB-5 BO – TAL metals.
SB-5 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.7
2"-2	0.6
2-4	0.6
4-6	0.6
6-8	0.4
8-10	0.4
10-12	0.7
12-14	0.7
14-16	2.6
16-18	2.6
18-20	0.9
20-22	0.5
22-24	0.5
24-26	1.2
26-28	1.2
28-30	1.2

Grab/Composite Samples

Interval:	0-2"
Sample Time:	2:50
Sample ID:	SB- 5 A
Interval:	2" – 2'
Sample Time:	2:55
Sample ID:	SB-5 BO
Interval:	25' – 30'
Sample Time:	3:10
Sample ID:	SB-5 C

DATE: 7/26/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-5

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-6

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	~12"	NA	Fill and gravel.
2	2" – 2			
3	2 – 4		NA	Clay.
4		~12"		
5	4 - 6		NA	Gravel and brick.
6				
7	6 – 8	~12"	NA	Gravel and brick.
8				
9	8 – 10		NA	Clay.
10		~24"		
11	10 – 12		NA	Clay.
12				
13	12 – 14	~18"	NA	Clay.
14				
15	14 – 16		NA	Sand.
16		~30"		
17	16 – 18		NA	Sand.
18				
19	18 – 20	~50"	NA	Clay.
20				
21	20 – 22		NA	Gravel.
22		~50"		
23	22 – 24		NA	Clay.
24				
25	24 – 26	~50"	NA	Sand and rock.
26				
27	26 – 28		NA	Clay, rock, and sand.
28		~50"		
29	28 – 30		NA	Clay, rock, and sand.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):27ft

PID measurements NA due to moisture causing inaccurate readings.

SB-6 BO was an offset soil boring.

Composite Sample Notes:

SB-6 A – TAL metals.
SB-6 BO – TAL metals.
SB-6 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2"
Sample Time:	11:05
Sample ID:	SB-6 A
Interval:	2" – 2'
Sample Time:	11:10
Sample ID:	SB-6 BO
Interval:	25' – 30'
Sample Time:	11:00
Sample ID:	SB-6 C

DATE: 7/24/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-6

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-7 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	NA	NA	Soil, fill, rocks, and roots.
3 — 4 —	2 – 4		NA	NA
5 — 6 —	4 - 6		NA	NA
7 — 8 —	6 – 8	NA	NA	NA
9 — 10 —	8 – 10		NA	NA
11 — 12 —	10 – 12		NA	NA
13 — 14 —	12 – 14	NA	NA	NA
15 — 16 —	14 – 16		NA	NA
17 — 18 —	16 – 18		NA	NA
19 — 20 —	18 – 20	NA	NA	NA
21 — 22 —	20 – 22		NA	NA
23 — 24 —	22 – 24		NA	NA
25 — 26 —	24 – 26	NA	NA	NA
27 — 28 —	26 – 28		NA	NA
29 — 30 —	28 – 30		NA	NA

Notes:

Performed By: EnviroSpec
Groundwater Interface (▼):NA

Top of bank near SB-7.

Composite Sample Notes:

SB-7 AO – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.2
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2"
Sample Time:	8:10
Sample ID:	SB-7 AO

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-7

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

EnviroSpec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-7

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	34"	13.9	Fill, brick and gravel.
3 — 4 —	2 – 4		13.9	Fill, brick and gravel.
5 — 6 —	4 - 6		0.5	Fill, brick and gravel.
7 — 8 —	6 – 8	17"	0.5	Fill.
9 — 10 —	8 – 10		0.5	Fill.
11 — 12 —	10 – 12	11"	0.2	Fill.
13 — 14 —	12 – 14		0.2	Fill.
15 — 16 —	14 – 16		0.2	Fill.
17 — 18 —	16 – 18	26"	0.2	Fill and some clay.
19 — 20 —	18 – 20		0.2	Fill and some clay.
21 — 22 —	20 – 22	16"	0.3	Fill and some clay.
23 — 24 —	22 – 24		0.3	Fill and some clay.
25 — 26 —	24 – 26		0.2	Fill and some clay.
27 — 28 —	26 – 28	40"	0.2	Clay with strong odor.
29 — 30 —	28 – 30		0.2	Clay with strong odor.

Notes:

Performed By: Cascade
Groundwater Interface (▼):2ft

SB-7 BO was an offset soil boring.
A Duplicate was taken at SB-7 BO at 11:30.

Composite Sample Notes:

SB-7 BO – TAL metals.
SB-7 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	3.6
2"-2	3.6
2-4	3.6
4-6	3.8
6-8	3.8
8-10	3.8
10-12	2.9
12-14	2.9
14-16	2.9
16-18	2.7
18-20	2.7
20-22	1.9
22-24	1.9
24-26	63.8
26-28	63.8
28-30	63.8

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	11:27
Sample ID:	SB-7 BO
Interval:	25' – 30'
Sample Time:	11:32
Sample ID:	SB-7 C

DATE: 7/27/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-7

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-8

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	48"	0.0	Soil and gravel.
3 — 4 —	2 – 4		0.0	Soil, fill, brick, and gravel.
5 — 6 —	4 – 6		0.0	Soil.
7 — 8 —	6 – 8	24"	0.0	Fill and sand.
9 — 10 —	8 – 10		0.0	Fill and sand.
11 — 12 —	10 – 12	12"	0.0	Fill, soil, and ash.
13 — 14 —	12 – 14		0.0	Fill, soil, and ash.
15 — 16 —	14 – 16		0.0	Ash.
17 — 18 —	16 – 18	24"	0.0	Ash and coal.
19 — 20 —	18 – 20		0.0	Clay and ash.
21 — 22 —	20 – 22	24"	3.0	Ash.
23 — 24 —	22 – 24		109.0	Clay and sand.
25 — 26 —	24 – 26		108.4	Clay and sand.
27 — 28 —	26 – 28	36"	22.1	Clay and sand.
29 — 30 —	28 – 30		1.1	Sand and Rock.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-5 BO was an offset soil boring.

Composite Sample Notes:

SB-8 A- Full analysis.
SB-8 BO – Full analysis.
SB-8 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	2.8
2"-2	1.1
2-4	1.1
4-6	2.8
6-8	2.8
8-10	2.8
10-12	2.2
12-14	2.2
14-16	1.1
16-18	1.1
18-20	1.8
20-22	2.8
22-24	101.2
24-26	101.2
26-28	256.7
28-30	378.5

Grab/Composite Samples

Interval:	0-2"
Sample Time:	1:40
Sample ID:	SB-8 A
Interval:	2" – 2'
Sample Time:	1:45
Sample ID:	SB-8 B
Interval:	25' – 30'
Sample Time:	2:20
Sample ID:	SB-8 C

DATE: 7/26/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-8

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-9

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	18"	0.0	Fill and gravel.
2	2" – 2			
3	2 – 4		0.0	Brick and ash.
4				
5	4 - 6	36"	0.0	Fill.
6				
7	6 – 8		75.0	Clay. Strong odor.
8				
9	8 – 10	<12"	4.0	Brick and ash
10				
11	10 – 12		41.8	Brick.
12				
13	12 – 14	24"	9.7	Black ash layer.
14				
15	14 – 16		0.9	Silt and clay
16				
17	16 – 18	36"	0.9	Sand.
18				
19	18 – 20		0.1	Sand.
20				
21	20 – 22	48"	0.0	Fill and gravel.
22				
23	22 – 24		0.0	Silt and clay.
24				
25	24 – 26	36"	0.0	Silt and clay.
26				
27	26 – 28		0.0	Rocks, silt, and clay.
28				
29	28 – 30	48"	0.0	Clay and gravel.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

Composite Sample Notes:

SB-30 B – TAL metals.
SB-30 C – TAL metals.
SB-30 D– VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	1.8
2"-2	1.8
2-4	1.8
4-6	39.9
6-8	39.9
8-10	5.2
10-12	2.4
12-14	2.4
14-16	1.4
16-18	1.4
18-20	1.2
20-22	4.1
22-24	1.5
24-26	2.6
26-28	2.6
28-30	0.9

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	10:50
Sample ID:	SB-9 B
Interval:	25' – 30'
Sample Time:	11:20
Sample ID:	SB-9 C
Interval:	7'-8'
Sample Time:	11:00
Sample ID:	SB-9 D

DATE: 7/26/2017

LOGGED BY: Charlotte Verhoef and Ross Carpinello

BORING LOCATION: SB-9

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-10

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	<6"	0.0	Brick, gravel, and asphalt.
3 4	2 – 4		0.0	Brick, gravel, and asphalt.
5 6	4 - 6		0.0	Brick, gravel, and asphalt.
7 8	6 – 8	<12"	0.0	Gravel, asphalt, and clay.
9 10	8 – 10		0.0	Gravel, asphalt, and clay.
11 12	10 – 12	<12"	0.0	Gravel and asphalt.
13 14	12 – 14		0.0	Brick, clay, and rocks.
15 16	14 – 16		0.0	Brick, clay, and rocks.
17 18	16 – 18	~18"	0.0	Sand, gravel, brick, and rocks.
19 20	18 – 20		0.0	Sand, gravel, brick, and rocks.
21 22	20 – 22	~24"	0.0	Some brick and clay.
23 24	22 – 24		0.0	Some brick and clay.
25 26	24 – 26		0.0	Some brick and clay.
27 28	26 – 28	~12"	85.0	Clay. Petroleum odor.
29 30	28 – 30		85.0	Clay. Petroleum odor.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-10 BO, SB-10 BO2, SB-10 BO3, and SB-10 CO were offset soil borings.

Duplicate sample was taken from SB-10C at 10:15.

Composite Sample Notes:

SB-10 BO2 – VOCs and TAL metals.
SB-10 BO3 – TPH.
SB-10 C – Full analysis, no TPH.
SB-10 CO-TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	25.0
2"-2	25.0
2-4	25.0
4-6	130.0
6-8	130.0
8-10	130.0
10-12	72.2
12-14	72.2
14-16	72.2
16-18	1764
18-20	1764
20-22	746.0
22-24	746.0
24-26	565.0
26-28	565.0
28-30	565.0

Grab/Composite Samples

Interval:	2" – 2'
Sample Time:	10:25
Sample ID:	SB-10 BO2
Interval:	2" – 2'
Sample Time:	10:25
Sample ID:	SB-10 BO3
Interval:	25' – 30'
Sample Time:	10:03
Sample ID:	SB-10 C
Interval:	25'-30'
Sample Time:	10:03
Sample ID:	SB -10 CO

DATE: 7/21/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-10

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-11

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	18"	0.0	Soil.
2	2" – 2			
3	2 – 4		0.0	Gravel, fill, and soil.
4				
5	4 - 6	18"	0.0	Fill.
6				
7	6 – 8		0.0	Gravel.
8				
9	8 – 10	36"	0.0	Clay.
10				
11	10 – 12		0.0	Clay.
12				
13	12 – 14	36"	0.0	Clay and brick.
14				
15	14 – 16		0.0	Clay and brick.
16		36"		
17	16 – 18		0.0	Clay and brick.
18				
19	18 – 20	36"	1.8	Clay.
20				
21	20 – 22		0.0	Silt, Clay, and Brick.
22		36"		
23	22 – 24		0.0	Silt, Clay, and Brick.
24				
25	24 – 26	60"	23.2	Silt, Clay, and Brick. Strong Odor.
26				
27	26 – 28		67.0	Brick. Strong Odor.
28		60"		
29	28 – 30		89.8	Silt and clay. Strong odor.
30				
31	30 - 32	60"	102.2	Silt and clay.
32				
33	33 - 35		40.7	Silt and clay.
34				
35				

Soil Boring: SB-11 (continued)

Notes:

Performed By: Cascade
Groundwater Interface (▼): 28ft

SB-11 BO was an offset soil boring.
Duplicate was taken from SB-11 BO at 9:10.

Composite Sample Notes:

SB-22 A – Full analysis.
SB-22 BO – Full analysis.
SB-22 C – Full analysis.
SB-22 D – VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.0
2"-2	0.3
2-4	0.3
4-6	1.0
6-8	1.0
8-10	1.0
10-12	0.9
12-14	0.9
14-16	0.9
16-18	0.4
18-20	0.4
20-22	0.6
22-24	0.6
24-26	1.6
26-28	1.4
28-30	4.0
30-32	397.7
33-35	1.7

Grab/Composite Samples

Interval:	0-2"
Sample Time:	9:00
Sample ID:	SB-11 A

Interval:	2" – 2'
Sample Time:	9:05
Sample ID:	SB-11 BO

Interval:	30' – 32'
Sample Time:	9:59
Sample ID:	SB-11 C

Interval:	34'-35'
Sample Time:	10:04
Sample ID:	SB-11 D

DATE: 7/26/2017

LOGGED BY: Charlotte Verhoef and Ross Carpinello

BORING LOCATION: SB-11



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

CLIENT: South Island
Apartments, LLC

PROJECT #: E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-12

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	~36"	0.0	Fill, sand, ash and gravel.
2	2" – 2			
3	2 – 4		0.0	Fill, sand, ash and gravel.
4		~24"		
5	4 - 6		0.0	Clay. Petroleum odor.
6				
7	6 – 8	~24"	3.7	Clay with a black layer at 7-9 feet. Petroleum odor.
8				
9	8 – 10		13.8	Clay with a black layer at 7-9 feet. Petroleum odor.
10		~24"		
11	10 – 12		67.8	Clay and sand. Petroleum odor.
12				
13	12 – 14	~36"	67.8	Clay and sand with a black layer at 12-13 feet. Petroleum odor.
14				
15	14 – 16		70.2	Clay and sand. Petroleum odor.
16		~54"		
17	16 – 18		70.2	Clay, fill and sand. Petroleum odor.
18				
19	18 – 20	~48"	23.4	Clay, fill and sand. Petroleum odor.
20				
21	20 – 22		8.4	Silt/clay. Petroleum odor.
22		~36"		
23	22 – 24		0.7	Silt/clay. Petroleum odor.
24				
25	24 – 26	~54"	0.7	Silt/clay. Petroleum odor.
26				
27	26 – 28		16.5	Silt/clay. Petroleum odor.
28		~48"		
29	28 – 30		3.1	Silt/clay. Petroleum odor.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-12 BO was an offset soil boring.
An addition sample SB-12 D was taken at 3:20 from 8-10 ft.

Composite Sample Notes:

SB-12 BO – Full Analysis.
SB-12 C – Full Analysis.
SB-12 D – VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	1.9
2"-2	1.9
2-4	2.4
4-6	2.4
6-8	1.8
8-10	198.6
10-12	84.0
12-14	60.4
14-16	60.4
16-18	88.3
18-20	88.3
20-22	4.5
22-24	6.5
24-26	140.0
26-28	140.0
28-30	4.8

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	2:55
Sample ID:	SB-12 BO
Interval:	25' – 30'
Sample Time:	3:10
Sample ID:	SB-12 C
Interval:	8' - 10'
Sample Time:	3:20
Sample ID:	SB-12 D

DATE: 7/25/2017

LOGGED BY: Charlotte Verhoef and Ross Carpinello

BORING LOCATION: SB-12

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-13

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2 3 4	0 – 2" 2" – 2	24"	0.3	Fill, gravel, brick, and ash.
5 6	2 – 4		0.3	Fill, gravel, brick, and ash.
7 8	4 - 6		0.7	Clay, Brick, and a black layer
9 10	6 – 8	36"	0.7	Clay, Brick, and a black layer
11 12	8 – 10		0.7	Clay, Brick, and a black layer
13 14	10 – 12		0.7	Clay, Brick, and a black layer
15 16	12 – 14	30"	1.3	Fill, gray ash, clay, and gravel.
17 18	14 – 16		0.3	Fill, gray ash, clay, and gravel.
19 20	16 – 18		0.3	Fill, gray ash, clay, and gravel.
21 22	18 – 20	12"	0.3	Fill, clay, gravel.
23 24	20 – 22		0.3	Fill, clay, gravel.
25 26	22 – 24		0.3	Fill, clay, gravel.
27 28	24 – 26	>12"	0.0	Clay and gravel.
29 30	26 – 28		0.0	Clay and gravel.
	28 – 30		0.0	Clay and gravel.

Notes:

Performed By: Cascade
Groundwater Interface (▼):27ft

Composite Sample Notes:

SB-13 B- Full analysis.
SB-13 C – Full analysis.
SB-13 D – VOCs, TPH, TAL metals, and SPLP RCRA metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	1.0
2"-2	1.0
2-4	3.6
4-6	3.6
6-8	51.0
8-10	3.3
10-12	3.5
12-14	3.5
14-16	2.8
16-18	5.4
18-20	5.4
20-22	2.8
22-24	4.3
24-26	5.5
26-28	1.5
28-30	1.5

Grab/Composite Samples

Interval:	2" – 2'
Sample Time:	11:54
Sample ID:	SB-13 B

Interval:	25' - 28'
Sample Time:	12:40
Sample ID:	SB-13 C

Interval:	7' - 9'
Sample Time:	11:40
Sample ID:	SB-13 D

DATE: 7/20/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-13

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-14 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	NA	NA	NA
2	2" – 2			
3	2 – 4		NA	NA
4				
5	4 - 6	NA	NA	NA
6				
7	6 – 8		NA	NA
8				
9	8 – 10	NA	NA	NA
10				
11	10 – 12		NA	NA
12				
13	12 – 14	NA	NA	NA
14				
15	14 – 16		NA	NA
16				
17	16 – 18	NA	NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	33"	82.6	Clay and some gravel. Strong odor.
22				
23	22 – 24		82.6	Clay and some gravel. Strong odor.
24				
25	24 – 26	36"	82.3	Clay and some gravel. Strong odor.
26				
27	26 – 28		30.0	Fill, clay, and gravel.
28				
29	28 – 30		30.0	Fill, clay, and gravel.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):26ft

SB-14CO was an offset soil boring.

PID only conducted 20-30 feet – where sampling was not conducted before.

Composite Sample Notes:

SB-14 CO – TAL Metal and SPLP only.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	248.0
22-24	248.0
24-26	248.0
26-28	190.0
28-30	190.0

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	25' – 30'
Sample Time:	10:02
Sample ID:	SB-14 CO

DATE: 7/31/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-14 O

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-14

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	<48"	0.1	Brick.
3 — 4 —	2 – 4		0.1	Gravel, ash, brick, and clay.
5 — 6 —	4 – 6		0.2	Gravel, ash, brick, and clay.
7 — 8 —	6 – 8	<24"	0.2	Gravel, ash, brick, and clay.
9 — 10 —	8 – 10		0.2	Gravel, ash, brick, and clay.
11 — 12 —	10 – 12		0.2	Gravel, brick, and clay.
13 — 14 —	12 – 14	<48"	0.2	Gravel, brick, and clay.
15 — 16 —	14 – 16		5.1	Clay with strong odor.
17 — 18 —	16 – 18		5.1	Clay with strong odor.
19 — 20 —	18 – 20	<48"	5.1	Clay with strong odor.
21 — 22 —	20 – 22			
23 — 24 —	22 – 24			
25 — 26 —	24 – 26	<48"		
27 — 28 —	26 – 28			
29 — 30 —	28 – 30			

Notes:

Performed By: Cascade
Groundwater Interface (▼):20ft

SB-14 BO was an additional offset soil boring. The offset boring (2" – 2 ft) was also more brick. A sample was taken from the 3 – 5 ft because there was clay to sample.

Composite Sample Notes:

SB-14 BO – Full analysis.
SB-14 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	1.6
2"-2	1.6
2-4	9.7
4-6	9.7
6-8	2.7
8-10	2.7
10-12	3.8
12-14	3.8
14-16	3.8
16-18	94.3
18-20	94.3
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	3' – 5'
Sample Time:	10:45
Sample ID:	SB – 14 BO
Interval:	15' – 20'
Sample Time:	10:33
Sample ID:	SB-14 C

DATE: 7/20/2017

LOGGED BY: Rachel Farnum and Charlotte Verhoef

BORING LOCATION: SB-14

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-15 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	37"	NA	Fill, brick, and clay.
2	2" – 2			
3	2 – 4		NA	Fill, brick, and clay.
4				
5	4 - 6	22"	NA	Fill and clay.
6				
7	6 – 8		NA	Fill and clay.
8				
9	8 – 10	18"	NA	Fill and clay.
10				
11	10 – 12		NA	Fill and gravel.
12				
13	12 – 14	22"	NA	Fill and gravel.
14				
15	14 – 16		NA	Sand and fill.
16				
17	16 – 18	54"	NA	Sand and fill.
18				
19	18 – 20		NA	Sand and fill.
20				
21	20 – 22	60"	0.0	Clay.
22				
23	22 – 24		0.0	Clay.
24				
25	24 – 26		0.0	Clay.
26				
27	26 – 28		0.0	Clay.
28				
29	28 – 30		0.0	Clay.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):26ft

PID only conducted 20-30 feet – where sampling was not conducted before.

SB-15 BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-15 BO2 – Full analysis (no TAL metals).
SB-15 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	4.3
22-24	4.3
24-26	0.3
26-28	0.3
28-30	0.3

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	8:07
Sample ID:	SB-15 BO2
Interval:	25' – 30'
Sample Time:	8:40
Sample ID:	SB-15 CO

DATE: 7/31/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-15 O

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-15 surface

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	NA	NA	Fill and some rocks.
3 — 4 —	2 – 4		NA	NA
5 — 6 —	4 - 6		NA	NA
7 — 8 —	6 – 8	NA	NA	NA
9 — 10 —	8 – 10		NA	NA
11 — 12 —	10 – 12	NA	NA	NA
13 — 14 —	12 – 14		NA	NA
15 — 16 —	14 – 16		NA	NA
17 — 18 —	16 – 18	NA	NA	NA
19 — 20 —	18 – 20		NA	NA
21 — 22 —	20 – 22	NA	NA	NA
23 — 24 —	22 – 24		NA	NA
25 — 26 —	24 – 26		NA	NA
27 — 28 —	26 – 28	NA	NA	NA
29 — 30 —	28 – 30		NA	NA

Notes:

Performed By: EnviroSpec
Groundwater Interface (▼):NA

Composite Sample Notes:

SB-15 A – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2"
Sample Time:	7:40
Sample ID:	SB-15 A

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-15

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



EnviroSpec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-15

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	~6"	0.0	Ash, brick, and clay.
3 — 4 —	2 – 4		0.0	Ash, brick, and clay.
5 — 6 —	4 - 6		0.0	Ash, brick, and clay.
7 — 8 —	6 – 8	~36"	0.0	Gravel, brick, fill and clay.
9 — 10 —	8 – 10		0.0	Gravel, brick, fill and clay.
11 — 12 —	10 – 12	~24"	0.0	Gravel, stones, fill and clay.
13 — 14 —	12 – 14		0.0	Gravel, stones, fill and clay.
15 — 16 —	14 – 16		0.0	Sand and fill.
17 — 18 —	16 – 18	~24"	0.0	Sand and fill.
19 — 20 —	18 – 20		0.0	Sand and fill.
21 — 22 —	20 – 22			
23 — 24 —	22 – 24			
25 — 26 —	24 – 26			
27 — 28 —	26 – 28			
29 — 30 —	28 – 30			

Notes:

Performed By: Cascade
Groundwater Interface (▼):20ft

SB-15 O was an additional offset soil boring.
There was not enough to composite for a SB-15 B.

Composite Sample Notes:

SB-15 O – TAL metals.
SB-15 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	2.6
2"-2	1.8
2-4	1.8
4-6	3.0
6-8	3.0
8-10	3.0
10-12	2.3
12-14	2.3
14-16	1.8
16-18	1.8
18-20	1.8
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	0 – 2 feet
Sample Time:	8:10
Sample ID:	SB-15 O

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	15' – 20'
Sample Time:	8:40
Sample ID:	SB-15 C

DATE: 7/20/2017

LOGGED BY: Rachel Farnum and Charlotte Verhoef

BORING LOCATION: SB-15

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-16

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	~24"	NA	Fill, rocks and gravel. No odor or visual petroleum.
2	2" – 2			
3	2 – 4		NA	Fill, rocks and gravel. No odor or visual petroleum.
4	4 - 6	~18"	NA	Fill, sand and gravel. No odor or visual petroleum.
5				
6	6 – 8		NA	Fill, ash and gravel. No odor or visual petroleum.
7	8 – 10	~18"	NA	Fill, ash and gravel. No odor or visual petroleum.
8				
9	10 – 12	~18"	NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
10	12 – 14		NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
11	14 – 16		NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
12	16 – 18	~30"	NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
13	18 – 20		NA	Ash, gravel, rocks and gravel. No odor or visual petroleum.
14	20 – 22		NA	Sand, fill, brick and clay. No odor or visual petroleum.
15	22 – 24	~24"	NA	Sand, fill, brick and clay. No odor or visual petroleum.
16	24 – 26		NA	Sand, fill, brick and clay. No odor or visual petroleum.
17	26 – 28		NA	Clay. No odor or visual petroleum.
18	28 – 30	~18"	NA	Clay. No odor or visual petroleum.
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):27ft

SB-16 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-16 BO – Full Analysis.
SB-16 C – Full Analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2" – 2'
Sample Time:	11:00
Sample ID:	SB-16 BO

Interval:	28' – 30'
Sample Time:	11:25
Sample ID:	SB-16 C

DATE: 7/25/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-16

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-17

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	~36"	NA	Fill, wood and gravel. No odor or visual petroleum.
3 4	2 – 4		NA	Fill, wood and gravel. No odor or visual petroleum.
5 6	4 - 6		NA	Fill, wood and gravel. No odor or visual petroleum.
7 8	6 – 8	~36"	NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
9 10	8 – 10		NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
11 12	10 – 12	~24"	NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
13 14	12 – 14		NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
15 16	14 – 16		NA	Soil, ash, clay, gravel and fill. No odor or visual petroleum.
17 18	16 – 18	~36"	NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum. Black layer at 17-18 feet.
19 20	18 – 20		NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
21 22	20 – 22	~48"	NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
23 24	22 – 24		NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
25 26	24 – 26		NA	Brick, ash, clay, gravel and fill. No odor or visual petroleum.
27 28	26 – 28	~36"	NA	Clay. Petroleum odor.
29 30	28 – 30		NA	Clay. Petroleum odor.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-17 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-17 A – Full analysis.
SB-17 BO – Full analysis.
SB-17 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 - 2"
Sample Time:	2:50
Sample ID:	SB-17 A

Interval:	2" – 2'
Sample Time:	2:55
Sample ID:	SB-17 BO

Interval:	25' – 30'
Sample Time:	3:10
Sample ID:	SB-17 C

DATE: 7/24/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-17

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-18 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	NA	NA	NA
2	2" – 2			
3	2 – 4		NA	NA
4				
5	4 - 6	NA	NA	NA
6				
7	6 – 8		NA	NA
8				
9	8 – 10	NA	NA	NA
10				
11	10 – 12		NA	NA
12				
13	12 – 14	NA	NA	NA
14				
15	14 – 16		NA	NA
16				
17	16 – 18	NA	NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	24"	0.0	Clay and fill.
22				
23	22 – 24		0.0	Clay and fill.
24				
25	24 – 26	60"	0.0	Clay and fill.
26				
27	26 – 28		0.0	Clay and gravel.
28				
29	28 – 30		0.0	Clay and gravel.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):26ft

Composite Sample Notes:

SB-18 CO – TAL Metal and SPLP only.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	0.9
22-24	0.9
24-26	0.9
26-28	0.7
28-30	0.7

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	25' – 30'
Sample Time:	9:27
Sample ID:	SB-18 CO

DATE: 7/31/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-18 O

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-18

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	~6", ~2 4" and ~24"	0.1	Fill and gravel.
3 — 4 —	2 – 4		0.0	Fill, brick, and seashells.
5 — 6 —	4 – 6		0.0	Fill, brick, and seashells.
7 — 8 —	6 – 8	~36"	0.0	Fill, brick and clay.
9 — 10 —	8 – 10		0.0	Fill, brick and clay.
11 — 12 —	10 – 12	~18"	0.0	Clay and some brick.
13 — 14 —	12 – 14		0.0	Clay and some brick.
15 — 16 —	14 – 16	~36"	0.0	Clay and some brick.
17 — 18 —	16 – 18		0.0	Clay and some brick.
19 — 20 —	18 – 20		0.0	Clay and some brick.
21 — 22 —	20 – 22			
23 — 24 —	22 – 24			
25 — 26 —	24 – 26			
27 — 28 —	26 – 28			
29 — 30 —	28 – 30			

Notes:

Performed By: Cascade
Groundwater Interface (▼):20ft

SB-18 O1 and SB-18 O2 were additional offset soil borings.
SB-18 O1 soil boring filed all the jars except for the SPLP metals jar.
This jar was filled by SB-18 O2 soil boring.

Composite Sample Notes:

SB-18 O1 – Full analysis.
SB-18 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	3.5
2"-2	1.4
2-4	1.4
4-6	5.2
6-8	5.2
8-10	5.2
10-12	2.4
12-14	2.4
14-16	1.5
16-18	1.5
18-20	1.5
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	0 – 2 feet
Sample Time:	9:45
Sample ID:	SB-18 O1

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	15' – 20'
Sample Time:	9:40
Sample ID:	SB-18 C

DATE: 7/20/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-18

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-19 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	41"	NA	Fill, gravel, and rocks.
3 — 4 —	2 – 4		NA	Fill, gravel, and rocks.
5 — 6 —	4 - 6		NA	Fill, gravel, and rocks.
7 — 8 —	6 – 8	NA	NA	NA
9 — 10 —	8 – 10		NA	NA
11 — 12 —	10 – 12	NA	NA	NA
13 — 14 —	12 – 14		NA	NA
15 — 16 —	14 – 16		NA	NA.
17 — 18 —	16 – 18	NA	NA	NA
19 — 20 —	18 – 20		NA	NA
21 — 22 —	20 – 22	NA	NA	NA
23 — 24 —	22 – 24		NA	NA
25 — 26 —	24 – 26		NA	Sand and gravel.
27 — 28 —	26 – 28	42"	NA	Sand and gravel.
29 — 30 —	28 – 30		NA	Sand and gravel.

Notes:

Performed By: Cascade
Groundwater Interface (▼):27ft

PID only conducted – Was conducted at previous soil boring at the same location.

SB-19BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-19 BO2 – Full analysis (no TAL metals or SVOCs).
SB-19 CO – Full analysis (no TAL metals or SVOCs).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	2" – 2'
Sample Time:	10:29
Sample ID:	SB-19 BO2

Interval:	25' – 30'
Sample Time:	10:50
Sample ID:	SB-19 CO

DATE: 7/31/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-19 O

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-19 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	NA	NA	Fill, rock, gravel, and brick.
2	2" – 2			
3	2 – 4		NA	NA
4		NA		
5	4 - 6		NA	NA
6				
7	6 – 8	NA	NA	NA
8				
9	8 – 10		NA	NA
10		NA		
11	10 – 12		NA	NA
12				
13	12 – 14	NA	NA	NA
14				
15	14 – 16		NA	NA
16		NA		
17	16 – 18		NA	NA
18				
19	18 – 20	NA	NA	NA
20				
21	20 – 22		NA	NA
22		NA		
23	22 – 24		NA	NA
24				
25	24 – 26	NA	NA	NA
26				
27	26 – 28		NA	NA
28		NA		
29	28 – 30		NA	NA
30				

Notes:

Performed By: EnviroSpec
Groundwater Interface (▼):NA

Composite Sample Notes:

SB-19 AO – Full analysis (no TAL metals or SVOC).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.2
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2"
Sample Time:	8:45
Sample ID:	SB-19 AO
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-19

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



EnviroSpec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-19

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	~24"	NA	Fill, clay, brick, gavel, and soil.
3 4	2 – 4		NA	Fill, clay, brick, and gavel
5 6	4 - 6		NA	Fill, clay, brick, and gavel.
7 8	6 – 8	~24"	NA	Fill, clay, brick, and gavel. Black layer from 7'-9'.
9 10	8 – 10		NA	Fill, clay and sand. Black layer from 7'-9'.
11 12	10 – 12	~18"	NA	Fill, clay and sand.
13 14	12 – 14		NA	Fill, clay and sand.
15 16	14 – 16		NA	Sand, fill, and gravel.
17 18	16 – 18	~18"	NA	Sand, fill, and gravel.
19 20	18 – 20		NA	Sand, fill, and gravel.
21 22	20 – 22	~36"	NA	Clay.
23 24	22 – 24		NA	Clay.
25 26	24 – 26		NA	Clay.
27 28	26 – 28	~18"	NA	Clay.
29 30	28 – 30		NA	Clay.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

PID measurements NA due to moisture causing inaccurate readings.

SB-19 BO was an offset soil boring.

Composite Sample Notes:

SB-19 A – TAL metals.
SB-19 BO – TAL metals.
SB-19 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2"
Sample Time:	1:45
Sample ID:	SB-21 A

Interval:	2" – 2'
Sample Time:	1:50
Sample ID:	SB-19 BO

Interval:	25' – 30'
Sample Time:	1:40
Sample ID:	SB-19 C

DATE: 7/24/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-19

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-20 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2” 2” – 2	12”	NA	Fill.
3 — 4 —	2 – 4		NA	Fill.
5 — 6 —	4 - 6		NA	Fill and brick.
7 — 8 —	6 – 8	12”	NA	Fill and brick.
9 — 10 —	8 – 10		NA	Fill and brick.
11 — 12 —	10 – 12		NA	Fill.
13 — 14 —	12 – 14	18”	NA	Fill.
15 — 16 —	14 – 16		NA	Fill.
17 — 18 —	16 – 18		NA	Fill.
19 — 20 —	18 – 20	16”	NA	Fill.
21 — 22 —	20 – 22		NA	Fill and clay.
23 — 24 —	22 – 24		NA	Fill and clay.
25 — 26 —	24 – 26	36”	NA	Clay.
27 — 28 —	26 – 28		NA	Clay.
29 — 30 —	28 – 30		NA	Clay.

Notes:

Performed By: Cascade
Groundwater Interface (▼):27ft

PID only conducted – Was conducted at previous soil boring at the same location.

SB-20 BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-20 AO – Full analysis (no TAL metals or SVOCs).
SB-20 BO2 – Full analysis (no TAL metals or SVOCs).
SB-20 CO – Full analysis (no TAL metals or SVOCs).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2"
Sample Time:	7:20
Sample ID:	SB-20 AO
Interval:	2" – 2'
Sample Time:	6:45
Sample ID:	SB-20 BO2
Interval:	25' – 30'
Sample Time:	7:20
Sample ID:	SB-20 CO

DATE: 7/31/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-20 O

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-20

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	21"	0.0	Fill and gravel.
2	2" – 2			
3	2 – 4		0.0	Fill and gravel.
4				
5	4 - 6	21"	0.0	Fill and gravel.
6				
7	6 – 8		0.0	Fill and gravel.
8				
9	8 – 10	18"	0.0	Fill and gravel.
10				
11	10 – 12		0.0	Fill and gravel.
12				
13	12 – 14	22"	0.0	Fill and gravel.
14				
15	14 – 16		0.0	Fill and gravel.
16				
17	16 – 18	30"	0.0	Fill and gravel.
18				
19	18 – 20		0.0	Fill and gravel.
20				
21	20 – 22	46"	0.0	Clay.
22				
23	22 – 24		0.0	Clay.
24				
25	24 – 26	46"	0.0	Clay with small gravel layer.
26				
27	26 – 28		0.0	Clay.
28				
29	28 – 30		0.0	Clay.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

SB-20 BO was an offset soil boring.

Composite Sample Notes:

SB-20 A – TAL Metals.
SB-20 BO – TAL Metals.
SB-20 C – TAL Metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.7
2"-2	0.7
2-4	0.7
4-6	0.7
6-8	0.7
8-10	0.7
10-12	0.6
12-14	0.6
14-16	0.4
16-18	0.4
18-20	0.4
20-22	0.4
22-24	0.4
24-26	0.4
26-28	0.4
28-30	0.4

Grab/Composite Samples

Interval:	0 - 2"
Sample Time:	8:37
Sample ID:	SB-20 A
Interval:	2" – 2'
Sample Time:	8:29
Sample ID:	SB-20 BO
Interval:	25' – 30'
Sample Time:	8:27
Sample ID:	SB-20 C

DATE: 7/27/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-20

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-21

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	~30"	NA	Soil, fill and gravel.
3 4	2 – 4		NA	Clay, fill, brick and ash.
5 6	4 - 6		NA	Clay, fill, brick and ash.
7 8	6 – 8	~18"	NA	Clay, wood, brick and ash.
9 10	8 – 10		NA	Clay, wood, brick and ash.
11 12	10 – 12	~12"	NA	Fill with a black layer. Petroleum odor. This layer has previously been sampled.
13 14	12 – 14		NA	Fill with a black layer. Petroleum odor. This layer has previously been sampled.
15 16	14 – 16		NA	NA
17 18	16 – 18	0	NA	NA
19 20	18 – 20		NA	NA
21 22	20 – 22	~12"	NA	Clay and gravel. Petroleum odor. This layer has previously been sampled.
23 24	22 – 24		NA	Clay and gravel. Petroleum odor. This layer has previously been sampled.
25 26	24 – 26		NA	Gravel, sand and clay. Petroleum odor.
27 28	26 – 28	~12"	NA	Gravel, sand and clay. Petroleum odor.
29 30	28 – 30		NA	Gravel, sand and clay. Petroleum odor.

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

SB-21 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-21 A – TAL metals.
SB-21 BO – TAL metals.
SB-21 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0 – 2"
Sample Time:	2:05
Sample ID:	SB-21 A
Interval:	2" – 2'
Sample Time:	2:07
Sample ID:	SB-21 BO
Interval:	25' – 30'
Sample Time:	2:30
Sample ID:	SB-21 C

DATE: 7/24/2017

LOGGED BY: Charlotte Verhoef and Ross Carpinello

BORING LOCATION: SB-21

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-22

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	18"	0.0	Soil, gravel, and fill.
3 — 4 —	2 – 4		0.0	Gravel, fill, and ash.
5 — 6 —	4 – 6		0.0	Fill and ash.
7 — 8 —	6 – 8	12"	0.0	Fill and brick.
9 — 10 —	8 – 10		0.0	Ash and gravel.
11 — 12 —	10 – 12	30"	0.0	Fill and ash.
13 — 14 —	12 – 14		0.0	Gravel, clay, and rock.
15 — 16 —	14 – 16		0.0	Silt and clay.
17 — 18 —	16 – 18	12"	0.0	Rocks and soil.
19 — 20 —	18 – 20		0.0	Soil.
21 — 22 —	20 – 22	36"	0.9	Soil and gravel.
23 — 24 —	22 – 24		12.2	Fill and Clay. Strong odor.
25 — 26 —	24 – 26		59.0	Gravel. Strong odor.
27 — 28 —	26 – 28	36"	4.1	Clay and gravel. Strong odor.
29 — 30 —	28 – 30		17.3	Silt, Clay, and gravel. Strong odor.

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

Composite Sample Notes:

SB-22 A- TAL metals.
SB-22 BO – TAL metals.
SB-22 C – TAL metals.
SB-22 D– VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	2.4
2"-2	1.5
2-4	1.5
4-6	1.5
6-8	1.3
8-10	1.3
10-12	2.0
12-14	2.0
14-16	1.5
16-18	2.9
18-20	2.9
20-22	4.0
22-24	192.8
24-26	134.6
26-28	134.6
28-30	5.8

Grab/Composite Samples

Interval:	0-2"
Sample Time:	12:35
Sample ID:	SB-22 A
Interval:	2" – 2'
Sample Time:	12:40
Sample ID:	SB-22 B
Interval:	25' – 30'
Sample Time:	1:15
Sample ID:	SB-22 C
Interval:	25'-27'
Sample Time:	1:20
Sample ID:	SB-22 D

DATE: 7/26/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-22

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-23 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	NA	NA	Soil, roots, and wood.
3 4	2 – 4		NA	NA
5 6	4 - 6		NA	NA
7 8	6 – 8	NA	NA	NA
9 10	8 – 10		NA	NA
11 12	10 – 12		NA	NA
13 14	12 – 14	NA	NA	NA
15 16	14 – 16		NA	NA
17 18	16 – 18		NA	NA
19 20	18 – 20	NA	NA	NA
21 22	20 – 22		NA	NA
23 24	22 – 24		NA	NA
25 26	24 – 26	NA	NA	NA
27 28	26 – 28		NA	NA
29 30	28 – 30		NA	NA

Notes:

Performed By: EnviroSpec
Groundwater Interface (▼):NA

Composite Sample Notes:

SB-23 AO – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2"
Sample Time:	7:25
Sample ID:	SB-23 AO
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-23

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



EnviroSpec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-23

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	33"	0.0	Fill, rocks and gravel.
3 — 4 —	2 – 4		0.0	Fill, rocks and gravel.
5 — 6 —	4 – 6		0.0	Fill, some clay, rocks and gravel.
7 — 8 —	6 – 8	13"	0.0	Fill with some black material.
9 — 10 —	8 – 10		0.0	Fill and gravel.
11 — 12 —	10 – 12	23"	0.3	Fill and gravel.
13 — 14 —	12 – 14		0.3	Fill and gravel.
15 — 16 —	14 – 16		0.0	Fill and gravel.
17 — 18 —	16 – 18	18"	0.0	Fill and gravel.
19 — 20 —	18 – 20		0.0	Fill and gravel.
21 — 22 —	20 – 22	18"	4.7	Fill.
23 — 24 —	22 – 24		4.7	Fill.
25 — 26 —	24 – 26		4.7	Fill.
27 — 28 —	26 – 28	20"	85.0	Fill, lots of rocks and gravel.
29 — 30 —	28 – 30		85.0	Fill, lots of rocks and gravel.

Notes:

Performed By: Cascade
Groundwater Interface (▼):27ft

SB-23 BO was an offset soil boring.

Composite Sample Notes:

SB-7 BO – Full Analysis.
SB-7 C – TAL metals, VOCs, SVOCs and TPH (not enough recovery to do Full Analysis).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.5
2"-2	0.5
2-4	0.5
4-6	1.4
6-8	1.4
8-10	1.4
10-12	1.3
12-14	1.3
14-16	2.3
16-18	2.3
18-20	2.3
20-22	40.0
22-24	40.0
24-26	150.0
26-28	150.0
28-30	150.0

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	1:14
Sample ID:	SB-23 BO
Interval:	25' – 30'
Sample Time:	1:40
Sample ID:	SB-23 C

DATE: 7/27/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-23

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-24 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	NA	NA	Soil, rocks and roots.
2	2" – 2			
3	2 – 4		NA	NA
4		NA		
5	4 - 6		NA	NA
6				
7	6 – 8	NA	NA	NA
8				
9	8 – 10		NA	NA
10		NA		
11	10 – 12		NA	NA
12				
13	12 – 14	NA	NA	NA
14				
15	14 – 16		NA	NA
16		NA		
17	16 – 18		NA	NA
18				
19	18 – 20	NA	NA	NA
20				
21	20 – 22		NA	NA
22		NA		
23	22 – 24		NA	NA
24				
25	24 – 26	NA	NA	NA
26				
27	26 – 28		NA	NA
28		NA		
29	28 – 30		NA	NA
30				

Notes:

Performed By: EnviroSpec
Groundwater Interface (▼):NA

Composite Sample Notes:

SB-24 AO – Full analysis, No TAL metal.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.3
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2"
Sample Time:	8:32
Sample ID:	SB-24 AO
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-24

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



EnviroSpec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-24

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	~18"	0.0	Soil.
3 — 4 —	2 – 4		0.0	Soil.
5 — 6 —	4 – 6		0.0	Soil.
7 — 8 —	6 – 8	~18"	0.0	Brick, fill and sand.
9 — 10 —	8 – 10		0.0	Brick, fill and sand.
11 — 12 —	10 – 12	<1"	0.0	Soil, gravel and brick.
13 — 14 —	12 – 14		0.0	Soil, gravel and brick.
15 — 16 —	14 – 16		0.0	Soil, gravel and brick.
17 — 18 —	16 – 18	~24"	0.0	Soil, gravel, sand and brick.
19 — 20 —	18 – 20		0.0	Soil, gravel, sand and brick.
21 — 22 —	20 – 22	~60"	0.0	Soil, gravel, sand, clay and brick.
23 — 24 —	22 – 24		0.0	Soil, gravel, sand, clay and brick.
25 — 26 —	24 – 26		0.0	Soil, gravel, sand, clay and brick.
27 — 28 —	26 – 28	~60"	0.2	Fill and brick. At 28-29 feet white granular powder.
29 — 30 —	28 – 30		0.0	Fill and brick.

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

SB-24 BO was an offset soil boring.
A Duplicate sample was taken from SB-24 A at 9:00 to be analyzed for TAL Metals.

Composite Sample Notes:

SB-24 A – TAL Metals.
SB-24 BO – TAL Metals.
SB-24 C – TAL Metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	2.4
2"-2	2.0
2-4	2.0
4-6	0.8
6-8	0.8
8-10	0.8
10-12	1.2
12-14	1.2
14-16	1.4
16-18	1.4
18-20	1.2
20-22	0.0
22-24	0.0
24-26	1.8
26-28	0.2
28-30	0.6

Grab/Composite Samples

Interval:	0 – 2"
Sample Time:	8:50
Sample ID:	SB-24 A

Interval:	2" – 2'
Sample Time:	8:55
Sample ID:	SB-24 BO

Interval:	25' – 30'
Sample Time:	9:00
Sample ID:	SB-24 C

DATE: 7/24/2017

LOGGED BY: Charlotte Verhoef and Ross Carpinello

BORING LOCATION: SB-24

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-25

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	~36"	NA	Fill, ash and gravel. No odor or visual petroleum.
3 4	2 – 4		NA	Fill, ash and gravel. No odor or visual petroleum.
5 6	4 – 6		NA	Fill, ash and gravel. No odor or visual petroleum.
7 8	6 – 8	~24"	NA	Fill, ash and gravel. Black layer at 7-9 feet. Odor present but no visual petroleum.
9 10	8 – 10		NA	Fill, ash and gravel. Black layer at 7-9 feet. Odor present but no visual petroleum.
11 12	10 – 12	~24"	NA	Ash, gravel and shells. Odor present but no visual petroleum.
13 14	12 – 14		NA	Ash, gravel and shells. Odor present but no visual petroleum.
15 16	14 – 16		NA	Ash, gravel and shells. Odor present but no visual petroleum.
17 18	16 – 18	~12"	NA	Sand, ash and brown/black layer. Odor present but no visual petroleum.
19 20	18 – 20		NA	Sand, ash and brown/black layer. Odor present but no visual petroleum.
21 22	20 – 22	~24"	NA	Sand, gravel and wood. No odor or visual petroleum.
23 24	22 – 24		NA	Sand, gravel and wood. No odor or visual petroleum.
25 26	24 – 26		NA	Sand and gravel. No odor or visual petroleum.
27 28	26 – 28	~48"	NA	Sand and gravel. No odor or visual petroleum.
29 30	28 – 30		NA	Sand and gravel. No odor or visual petroleum.

Notes:

Performed By: Cascade
Groundwater Interface (▼):30ft

SB-25 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-25 BO – TAL metals.
SB-25 C – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	9:45
Sample ID:	SB-25 BO
Interval:	25' – 30'
Sample Time:	10:10
Sample ID:	SB-25 C

DATE: 7/25/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-25

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-26

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	~30"	NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
3 4	2 – 4		NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
5 6	4 - 6		NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
7 8	6 – 8	~18"	NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
9 10	8 – 10		NA	Fill, brick, soil, ash and gravel. No odor or visual petroleum.
11 12	10 – 12	~18"	NA	Ash, gravel, brick and clay. No odor or visual petroleum.
13 14	12 – 14		NA	Ash, gravel, brick and clay. No odor or visual petroleum.
15 16	14 – 16		NA	Ash, gravel, brick and clay. No odor or visual petroleum.
17 18	16 – 18	~18"	NA	Ash, gravel and gravel. No odor or visual petroleum.
19 20	18 – 20		NA	Ash, gravel and gravel. No odor or visual petroleum.
21 22	20 – 22	~30"	NA	Gravel and clay. No odor or visual petroleum.
23 24	22 – 24		NA	Gravel and clay. No odor or visual petroleum.
25 26	24 – 26		NA	Gravel and clay. No odor or visual petroleum.
27 28	26 – 28	~48"	NA	Gravel and clay. No odor or visual petroleum.
29 30	28 – 30		NA	Gravel and clay. No odor or visual petroleum.

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

At SB-26 A MS/MSD was taken at 8:45.
SB-26 BO was an offset soil boring.

PID measurements NA due to moisture causing inaccurate readings.

Composite Sample Notes:

SB-26 A – Full Analysis.
SB-26 BO – Full Analysis.
SB-26 C – Full Analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2"
Sample Time:	8:00
Sample ID:	SB-26A

Interval:	2" – 2'
Sample Time:	8:10
Sample ID:	SB-26 BO

Interval:	28' – 30'
Sample Time:	8:25
Sample ID:	SB-26 C

DATE: 7/25/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-26

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-27

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	31"	0.0	Gavel and soil.
3 — 4 —	2 – 4		0.0	Fill, clay, and white rocks.
5 — 6 —	4 - 6		0.0	Gravel, sand, and black/ash layer.
7 — 8 —	6 – 8	23"	0.0	Gravel, soil, and fill. Black layer from 7' - 9'
9 — 10 —	8 – 10		0.0	Gravel.
11 — 12 —	10 – 12	26"	1.8	Black layer.
13 — 14 —	12 – 14		0.7	Clay and rocks.
15 — 16 —	14 – 16		0.6	Fill and clay.
17 — 18 —	16 – 18	12"	0.2	Clay and gravel.
19 — 20 —	18 – 20		0.4	Clay and white rocks.
21 — 22 —	20 – 22	18"	0.8	Gravel and clay.
23 — 24 —	22 – 24		0.8	Gravel and clay.
25 — 26 —	24 – 26	NA	NA	NA
27 — 28 —	26 – 28		NA	NA
29 — 30 —	28 – 30		NA	NA

Notes:

Performed By: Cascade
Groundwater Interface (▼):25ft

SB-27 DO and SB-27 DO2 were offset soil borings.

Composite Sample Notes:

SB-27 B – TAL metals.
SB-27 C – TAL metals.
SB-27 DO- VOCs and TPH
SB-27 DO2- VOCs and THP

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.0
2"-2	0.0
2-4	1200
4-6	1200
6-8	130.0
8-10	130.0
10-12	70.0
12-14	70.0
14-16	122.0
16-18	122.0
18-20	1071
20-22	1071
22-24	147.0
24-26	147.0
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	2" – 2'
Sample Time:	8:30
Sample ID:	SB-27 B
Interval:	26' – 27'
Sample Time:	88:32
Sample ID:	SB-27 C
Interval:	4' - 5'
Sample Time:	8:35
Sample ID:	SB-27 DO
Interval:	18' - 20'
Sample Time:	9:11
Sample ID:	SB-27 DO2

DATE: 7/21/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-27

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-28

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	35"	0.0	Fill.
2	2" – 2			
3	2 – 4		0.0	Fill.
4				
5	4 - 6	32"	0.0	Fill.
6				
7	6 – 8		8.5	Fill and brick.
8				
9	8 – 10	20"	0.3	Fill and brick.
10				
11	10 – 12		4.6	Brick and clay. Black layer with strong odor.
12				
13	12 – 14	31"	69.8	Brick and clay. Black layer with strong odor.
14				
15	14 – 16		57.6	Brick and clay. Black layer with strong odor.
16				
17	16 – 18	24"	57.6	Brick and clay. Black layer with strong odor.
18				
19	18 – 20		57.6	Brick and clay. Black layer with strong odor.
20				
21	20 – 22	48"	127.6	Clay.
22				
23	22 – 24		0.3	Clay.
24				
25	24 – 26		2.9	Clay.
26				
27	26 – 28		2.9	Clay.
28				
29	28 – 30		2.9	Clay.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

SB-28 BO2 was an additional offset soil boring.

Composite Sample Notes:

SB-28 BO – Full analysis.
SB-28 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.1
2"-2	0.1
2-4	0.1
4-6	3.9
6-8	3.9
8-10	3.9
10-12	23.2
12-14	23.2
14-16	58.9
16-18	58.9
18-20	257
20-22	257
22-24	0.1
24-26	0.1
26-28	9.0
28-30	9.0

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	7:43
Sample ID:	SB-28 BO
Interval:	25' – 30'
Sample Time:	8:07
Sample ID:	SB-28 C

DATE: 7/28/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-28

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-29

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	36"	0.3	Sand, gravel and fill.
3 — 4 —	2 – 4		0.3	Sand, gravel and fill.
5 — 6 —	4 - 6		0.3	Clay.
7 — 8 —	6 – 8	12"	0.3	Fill and gravel.
9 — 10 —	8 – 10		0.3	Fill and gravel.
11 — 12 —	10 – 12	<1"	NA	Fill and gravel.
13 — 14 —	12 – 14		NA	Fill and gravel.
15 — 16 —	14 – 16	13"	0.1	Fill and gravel.
17 — 18 —	16 – 18		0.1	Fill and gravel.
19 — 20 —	18 – 20		0.1	Fill and gravel.
21 — 22 —	20 – 22	16"	0.1	Fill and clay.
23 — 24 —	22 – 24		0.1	Fill and clay.
25 — 26 —	24 – 26	60"	0.1	Clay.
27 — 28 —	26 – 28		0.1	Clay.
29 — 30 —	28 – 30		0.1	Clay.

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

SB-29 BO was an offset soil boring.

Composite Sample Notes:

SB-29 BO – Full analysis (Duplicate taken at 9:50 – SB-29 BO Duplicate).
SB-29 C – Full analysis

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.8
2"-2	0.8
2-4	0.8
4-6	4.1
6-8	4.1
8-10	4.1
10-12	4.2
12-14	4.2
14-16	4.2
16-18	1.9
18-20	1.9
20-22	1.5
22-24	1.5
24-26	0.8
26-28	0.8
28-30	0.8

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	9:40
Sample ID:	SB-29 BO
Interval:	25' – 30'
Sample Time:	10:10
Sample ID:	SB-29 C

DATE: 7/28/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-29

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-30

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	18"	0.0	Rocks and ash.
3 — 4 —	2 – 4		0.0	Sand.
5 — 6 —	4 – 6		0.0	Brick.
7 — 8 —	6 – 8	12"	0.0	Fill and Rocks.
9 — 10 —	8 – 10		0.0	Clay.
11 — 12 —	10 – 12	30"	25.0	Brick. Strong odor.
13 — 14 —	12 – 14		29.0	Clay. Strong odor.
15 — 16 —	14 – 16		8.5	Clay. Strong odor.
17 — 18 —	16 – 18	12"	0.1	Brick and clay. Strong odor.
19 — 20 —	18 – 20		86.2	Clay and silt. Strong odor.
21 — 22 —	20 – 22	36"	512.0	Brick and fill. Strong odor.
23 — 24 —	22 – 24		320.0	Clay. Strong odor.
25 — 26 —	24 – 26		437.0	Clay. Strong odor.
27 — 28 —	26 – 28	36"	157.0	Silt and clay. Strong odor.
29 — 30 —	28 – 30		22.6	Clay. Strong odor.

Notes:

Performed By: Cascade
Groundwater Interface (▼):28ft

Composite Sample Notes:

SB-30 B – TAL metals.
SB-30 C – TAL metals.
SB-30 D– VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.3
2"-2	0.3
2-4	0.3
4-6	0.3
6-8	0.3
8-10	0.3
10-12	0.4
12-14	45.9
14-16	1.9
16-18	1250
18-20	989.6
20-22	322.1
22-24	989.6
24-26	330.1
26-28	330.1
28-30	93.6

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	7:50
Sample ID:	SB-30 B
Interval:	25' – 30'
Sample Time:	8:20
Sample ID:	SB-30 C
Interval:	18'-20'
Sample Time:	8:30
Sample ID:	SB-30 D

DATE: 7/26/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-30

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	~6"	0.0	Brick, clay and ash.
2	2" – 2			
3	2 – 4		0.0	Brick, clay and ash.
4				
5	4 - 6	~10"	0.0	Brick, clay and ash.
6				
7	6 – 8		0.0	Brick, clay and ash.
8				
9	8 – 10	~24"	0.0	Brick, clay and ash.
10				
11	10 – 12		0.0	Brick, clay and ash.
12				
13	12 – 14	~18"	0.0	Brick, clay and ash.
14				
15	14 – 16		0.0	Brick, clay and ash.
16				
17	16 – 18	~18"	0.0	Brick, clay and ash.
18				
19	18 – 20		1.8	Brick, clay and ash.
20				
21	20 – 22	~18"	0.0	Clay.
22				
23	22 – 24		0.0	Clay.
24				
25	24 – 26	~48"	130.0	Clay.
26				
27	26 – 28		86.8	Clay.
28				
29	28 – 30	~48"	36.5	Clay.
30				
31	30 - 32		0.3	Clay and gravel.
32				
33	33 - 35	~48"	0.3	Clay and gravel.
34				
35				

Soil Boring: SB-31 (continued)

Notes:

Performed By: Cascade
Groundwater Interface (▼): 33ft

Duplicate was taken from SB-31 C at 12:40.

Composite Sample Notes:

SB-31 B – Full analysis (no VOCs and TPH).
SB-31 C – TAL Metals.
SB-31 D – VOCs and TPH.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	45.0
2"-2	45.0
2-4	45.0
4-6	26.4
6-8	26.4
8-10	26.4
10-12	14.6
12-14	14.6
14-16	14.6
16-18	4922.0
18-20	4922.0
20-22	452.0
22-24	452.0
24-26	90.1
26-28	90.1
28-30	48.5
30-32	48.5
33-35	48.5

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	1' – 3'
Sample Time:	11:10
Sample ID:	SB-31 B

Interval:	30' – 35'
Sample Time:	12:35
Sample ID:	SB-31 C

Interval:	19'-20'
Sample Time:	12:05
Sample ID:	SB-31 D

DATE: 7/21/2017

LOGGED BY: Charlotte Verhoef and Ross Carpinello

BORING LOCATION: SB-31



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log

CLIENT: South Island
Apartments, LLC

PROJECT #: E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-32

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 2	0 – 2"	18"	0.0	Fill, sand, glass, and shells.
3 4	2 – 4		0.0	Soil and brick.
5 6	4 – 6		0.0	Soil and brick.
7 8	6 – 8	30"	0.0	Clay.
9 10	8 – 10		0.0	Clay.
11 12	10 – 12	24"	1.8	Clay, brick, and gravel.
13 14	12 – 14		0.7	Clay, brick, and gravel.
15 16	14 – 16		0.6	Clay, brick, and gravel.
17 18	16 – 18	0"		No Recovery.
19 20	18 – 20			No Recovery.
21 22	20 – 22	>12"		Gravel and clay.
23 24	22 – 24			Gravel and clay.
25 26	24 – 26			Clay.
27 28	26 – 28	60"		Clay.
29 30	28 – 30			Clay.

Notes:

Performed By: Cascade
Groundwater Interface (▼):25ft

Duplicate sample was taken at SB-32 A on 2:30 for PCB/PEST and SPLP RCRA metals.

Composite Sample Notes:

SB-32 A- Full analysis.
SB-32 B – Full analysis.
SB-32 C – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	67.6
2"-2	3.5
2-4	3.5
4-6	1.7
6-8	1.7
8-10	1.7
10-12	10.9
12-14	1.9
14-16	10.9
16-18	NA
18-20	NA
20-22	11.5
22-24	11.5
24-26	11.5
26-28	30.5
28-30	30.5

Grab/Composite Samples

Interval:	0 – 2"
Sample Time:	2:20
Sample ID:	SB-32 A

Interval:	2" – 2'
Sample Time:	1:32
Sample ID:	SB-32 B

Interval:	25' - 30'
Sample Time:	1:40
Sample ID:	SB-32 C

DATE: 7/21/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-32

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-33 surface (offset)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	NA	NA	Soil, roots, and some rocks.
3 — 4 —	2 – 4		NA	NA
5 — 6 —	4 - 6		NA	NA
7 — 8 —	6 – 8	NA	NA	NA
9 — 10 —	8 – 10		NA	NA
11 — 12 —	10 – 12		NA	NA
13 — 14 —	12 – 14	NA	NA	NA
15 — 16 —	14 – 16		NA	NA
17 — 18 —	16 – 18		NA	NA
19 — 20 —	18 – 20	NA	NA	NA
21 — 22 —	20 – 22		NA	NA
23 — 24 —	22 – 24		NA	NA
25 — 26 —	24 – 26	NA	NA	NA
27 — 28 —	26 – 28		NA	NA
29 — 30 —	28 – 30		NA	NA

Notes:

Performed By: EnviroSpec
Groundwater Interface (▼):NA

Composite Sample Notes:

SB-33 AO – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	NA
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	0-2"
Sample Time:	7:34
Sample ID:	SB-33 AO
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA

DATE: 8/8/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-33

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



EnviroSpec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-33

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	34"	0.0	Fill, rocks and bricks.
3 — 4 —	2 – 4		0.0	Fill, rocks and bricks.
5 — 6 —	4 - 6		0.0	Fill, rocks and bricks.
7 — 8 —	6 – 8	11"	0.0	Fill and gravel.
9 — 10 —	8 – 10		0.0	Fill and gravel.
11 — 12 —	10 – 12	27"	0.5	Fill, some clay and brick.
13 — 14 —	12 – 14		0.5	Fill, some clay and brick.
15 — 16 —	14 – 16	29"	0.0	Fill and clay.
17 — 18 —	16 – 18		0.0	Fill and clay.
19 — 20 —	18 – 20		0.0	Fill and clay.
21 — 22 —	20 – 22	29"	0.0	Fill and clay.
23 — 24 —	22 – 24		0.0	Fill and clay.
25 — 26 —	24 – 26	36"	0.0	Fill and clay.
27 — 28 —	26 – 28		0.1	Sand and clay.
29 — 30 —	28 – 30		0.1	Sand and clay.

Notes:

Performed By: Cascade
Groundwater Interface (▼):27ft

SB-33 BO was an offset soil boring.
SB-33 D was sampled at 2:47 from 25'-30' interval.

Composite Sample Notes:

SB-33 BO – TAL metals.
SB-33 C – TAL metals.
SB-33 D – PCBs, Pesticides and SPLP.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	1.4
2"-2	1.4
2-4	1.4
4-6	0.7
6-8	0.7
8-10	0.7
10-12	0.9
12-14	0.9
14-16	0.4
16-18	0.4
18-20	0.4
20-22	0.4
22-24	0.4
24-26	0.4
26-28	0.3
28-30	0.3

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	2:13
Sample ID:	SB-33 BO
Interval:	25' – 30'
Sample Time:	2:40
Sample ID:	SB-33 C
Interval:	25'-30'
Sample Time:	2:47
Sample ID:	SB-33 D

DATE: 7/27/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-33

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-34

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	~18"	0.0	Soil, gravel, and fill.
3 — 4 —	2 – 4		0.0	Soil, gravel, and fill.
5 — 6 —	4 – 6		0.0	Gravel, silt and fill.
7 — 8 —	6 – 8	~18"	0.0	Gravel, silt and fill.
9 — 10 —	8 – 10		0.0	Black soil layer.
11 — 12 —	10 – 12	~24"	0.0	Sand, coarse gravel.
13 — 14 —	12 – 14		0.0	Sand, coarse gravel with an additional black layer.
15 — 16 —	14 – 16		0.0	Black layer.
17 — 18 —	16 – 18	~24"	0.0	Grey gravel with silt.
19 — 20 —	18 – 20		0.0	Grey gravel with silt.
21 — 22 —	20 – 22	~6"	0.0	Soil, gravel with fill.
23 — 24 —	22 – 24		0.0	Soil, gravel with fill.
25 — 26 —	24 – 26		0.0	Clay.
27 — 28 —	26 – 28	~6"	85.0	Clay and gravel.
29 — 30 —	28 – 30		85.0	Clay and gravel.

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

SB-34 BO was an offset soil boring.
SB-34 D taken from black layer at 7-9-feet at 1:28.

Composite Sample Notes:

SB-34 BO – TAL metals.
SB-34 C – TAL metals.
SB-34 D – PCBs and pesticides.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.5
2"-2	0.5
2-4	0.5
4-6	50
6-8	15
8-10	15
10-12	5.0
12-14	5.0
14-16	5.0
16-18	1.5
18-20	1.5
20-22	9.5
22-24	9.5
24-26	9.5
26-28	10.7
28-30	10.7

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA

Interval:	0 – 2 feet
Sample Time:	2:03
Sample ID:	SB-34 BO

Interval:	28' – 30'
Sample Time:	2:02
Sample ID:	SB-34 C

DATE: 7/20/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-34

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-35 Offset (revisit)

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	NA	NA	NA
2	2" – 2			
3	2 – 4		NA	NA
4				
5	4 - 6	NA	NA	NA
6				
7	6 – 8		NA	NA
8				
9	8 – 10	NA	NA	NA
10				
11	10 – 12		NA	NA
12				
13	12 – 14	NA	NA	NA
14				
15	14 – 16		NA	NA
16				
17	16 – 18	NA	NA	NA
18				
19	18 – 20		NA	NA
20				
21	20 – 22	NA	NA	NA
22				
23	22 – 24		NA	NA
24				
25	24 – 26	~24"	NA	Sand and gravel.
26				
27	26 – 28		NA	Sand and gravel.
28				
29	28 – 30		NA	Sand and gravel.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):26ft

SB-35 CO2 is an offset soil boring.
Only sampled TAL metals due to poor recovery.

Composite Sample Notes:

SB-35 CO2 – TAL metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	NA
2"-2	NA
2-4	NA
4-6	NA
6-8	NA
8-10	NA
10-12	NA
12-14	NA
14-16	NA
16-18	NA
18-20	NA
20-22	NA
22-24	NA
24-26	0.0
26-28	50.2
28-30	50.2

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	26' - 27'
Sample Time:	7:44
Sample ID:	SB-35 CO2

DATE: 7/21/2017

LOGGED BY: Charlotte Verhoef

BORING LOCATION: SB-35

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-35

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1 — 2 —	0 – 2"	~24"	2.4	Gravel.
3 — 4 —	2 – 4		1.8	Fill and brick.
5 — 6 —	4 - 6		5.4	Black layer.
7 — 8 —	6 – 8	~36"	6.0	Some gravel and a black layer.
9 — 10 —	8 – 10		6.0	Some gravel and a black layer.
11 — 12 —	10 – 12	~12"	10.0	Clay.
13 — 14 —	12 – 14		3.0	Clay.
15 — 16 —	14 – 16		0.0	Clay.
17 — 18 —	16 – 18	~30	1.5	Silt and sand.
19 — 20 —	18 – 20		0.0	Silt and sand.
21 — 22 —	20 – 22	~18"	0.0	Clay.
23 — 24 —	22 – 24		1.7	Fill and gravel.
25 — 26 —	24 – 26		0.9	Fill and gravel.
27 — 28 —	26 – 28	NA	NA	NA
29 — 30 —	28 – 30		NA	NA

Notes:

Performed By: Cascade
Groundwater Interface (▼):25ft

SB-35 BO was an offset soil boring.
Sample SB35-CO2 was taken the following day in an offset boring.

Composite Sample Notes:

SB-35 BO – Full analysis.
SB-35 D – Full analysis.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	20.3
2"-2	20.3
2-4	237.0
4-6	29.6
6-8	29.6
8-10	328.0
10-12	177.0
12-14	177.0
14-16	13.5
16-18	13.8
18-20	55
20-22	180
22-24	80.0
24-26	12.5
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	3:04
Sample ID:	SB-35 BO
Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	8' - 10'
Sample Time:	2:27
Sample ID:	SB-35 D

DATE: 7/20/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-35

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-36

Depth (ft)	Sample Interval (ft)	Recovery (in)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist
1	0 – 2"	32"	0.0	Large brick layer, gravel and fill.
2	2" – 2			
3	2 – 4		0.0	Large brick layer, gravel and fill.
4				
5	4 - 6	16"	0.0	Large brick layer, gravel and fill.
6				
7	6 – 8		0.0	Fill.
8				
9	8 – 10	23"	0.0	Fill, small black layer.
10				
11	10 – 12		0.0	Fill and gravel.
12				
13	12 – 14	25"	0.0	Fill and gravel.
14				
15	14 – 16		0.0	Fill, gravel and clay.
16				
17	16 – 18	40"	0.0	Fill and gravel.
18				
19	18 – 20		0.0	Clay.
20				
21	20 – 22	38"	2.5	Fill and clay.
22				
23	22 – 24		2.5	Fill and clay.
24				
25	24 – 26		2.5	Clay.
26				
27	26 – 28		0.0	Clay.
28				
29	28 – 30		0.0	Clay.
30				

Notes:

Performed By: Cascade
Groundwater Interface (▼):29ft

SB-36 BO was an offset soil boring.

Composite Sample Notes:

SB-36 BO – TAL metals.
SB-36 C – Full analysis (due to good recovery).

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.1
2"-2	0.1
2-4	0.1
4-6	1.5
6-8	1.5
8-10	1.5
10-12	0.2
12-14	0.2
14-16	0.2
16-18	6.1
18-20	6.1
20-22	5.6
22-24	5.6
24-26	1.3
26-28	1.3
28-30	1.3

Grab/Composite Samples

Interval:	NA
Sample Time:	NA
Sample ID:	NA
Interval:	2" – 2'
Sample Time:	7:08
Sample ID:	SB-36 BO
Interval:	25' – 30'
Sample Time:	7:25
Sample ID:	SB-36 C

DATE: 7/28/2017

LOGGED BY: Rachel Farnum

BORING LOCATION: SB-36

LOCATION: 1 Osgood Avenue, Town of Green Island, NY

Soil Boring Log



Envirospec Engineering, PLLC
349 Northern Blvd., Suite 3
Albany, NY 12204

CLIENT: South Island
Apartments, LLC

PROJECT #:E17-1600

PROJECT MANAGER: Gianna Aiezza

APPENDIX C

GROUNDWATER SAMPLING LOGS



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A Woman Owned Business Enterprise (WBE)



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WELL NO MW-13
Date(s) 9/12/17

Weather	Temperature
Cloudy	High <u> </u>
	Low <u> </u>

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-13	Well Location:	
Well Diameter (in):		Well Condition:	
A. Total Well Depth (ft bgs):	33.9' Top of casing	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.35 Top of Casing	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.55	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.23	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.69	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:		Pump/Method:	
Purge Start Time:	1:29	Approx Flow Rate:	0.234 ml/min
Purge Stop Time:	2:27	Approx Volume Removed:	4 gallons
Did well dry out?			

Sampling

Date:		pH			
Time:	2:30	Temp (°C)			
Sample ID:	MW-13	Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Comments:

 MW-13 sample at 2:30
--



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WELL NO UMW-D
Date(s) 9/12/17

Weather	Temperature
Clear	High <u>80</u>
	Low <u>58</u>

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	UMW-D	Well Location:	
Well Diameter (in):		Well Condition:	
A. Total Well Depth (ft bgs):	32.6' Top of casing	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.15 Top of Casing	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.45	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.05	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.15	= E * 3	8-inch well = 2.609 gal/ft

11.9 L

Purge

Purge Date:	9/12/17	Pump/Method:	
Purge Start Time:	8:36	Approx Flow Rate:	0.2 l/min
Purge Stop Time:	9:36	Approx Volume Removed:	4 gallons
Did well dry out?	No		

Sampling

Date:	9/12/17	pH			
Time:	9:40	Temp (°C)			
Sample ID:	UMW-D	Conductivity (mS/cm)			
Sample Method:	Low flow	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

--

Comments:

DUP – 10:40 MS – 11:20 MSD – 11:50
--



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WELL NO MW-7

Date(s) 9/13/17

Weather

Temperature

Cloudy

High

Low

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-7	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	32.5'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.25	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.25	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.08	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	12.24	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/13/17	Pump/Method:	
Purge Start Time:	1:01	Approx Flow Rate:	0.23 ml/min
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:	9/13/17	pH			
Time:		Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

--

Comments:

PID -> 0.0 ppm



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WELL NO MW-2

Date(s) 9/13/17

Weather

Temperature

Clear

High

Low

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-2	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	38.4'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	28.65' to top of casing	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	9.75'	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	6.4	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	19.1	= E * 3	8-inch well = 2.609 gal/ft

Based on parameters leveling out

Purge

Purge Date:	9/13/17	Pump/Method:	Peristaltic Pump
Purge Start Time:	10:12	Approx Flow Rate:	0.25 ml/min
Purge Stop Time:	11:10	Approx Volume Removed:	
Did well dry out?			

Sampling

Date:	9/13/17	pH			
Time:	11:10	Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:	Peristaltic and Bailer (VOCs)	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clear

Comments:

PID -> 0.0 ppm



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WELL NO MW-14
Date(s) 9/13/17

Weather	Temperature
Clear	High <u> </u>
	Low <u> </u>

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-14	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	33.2'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.6' to top of case	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	5.6'	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.9128	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	2.74	= E * 3	8-inch well = 2.609 gal/ft

Based on parameters leveling out

Purge

Purge Date:	9/13/17	Pump/Method:	
Purge Start Time:	7:58	Approx Flow Rate:	0.279 L/min
Purge Stop Time:		Approx Volume Removed:	2.5-3 gallons
Did well dry out?			

Sampling

Date:	9/13/17	pH			
Time:	8:36	Temp (°C)			
Sample ID:	MW-14	Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clear

Comments

PID -> 0.0 ppm



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WELL NO MW-7
Date(s) 9/14/17

Weather	Temperature
Cloudy	High _____
	Low <u>68</u>

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-7	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	32.5'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	28.15	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	4.35	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	2.84	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	8.5	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/14/17	Pump/Method:	Peristaltic
Purge Start Time:	7:52	Approx Flow Rate:	0.2 ml/min
Purge Stop Time:	8:37	Approx Volume Removed:	3 gallons
Did well dry out?	No		

Sampling

Date:	9/14/17	pH			
Time:	8:40 pm	Temp (°C)			
Sample ID:	MW-7	Conductivity (mS/cm)			
Sample Method:	Peristaltic and Bailer (VOCs)	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clear

Comments:

PID -> 0.0 ppm



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WELL NO MW-11

Date(s) 9/14/17

Weather

Temperature

Cloudy

High 70

Low 68

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-11	Well Location:	
Well Diameter (in):	2"	Well Condition:	
A. Total Well Depth (ft bgs):	30.55'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	26.15	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	4.4	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.72	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	2.2	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/14/17	Pump/Method:	
Purge Start Time:		Approx Flow Rate:	0.158 ml/min turning up to 0.2 ml/min
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:	1:40 pm	Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

There was oil on sensor earlier but is clean now.
Water has odor and a slight sheen

Comments

PID -> 6.7 ppm



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WELL NO MW-3
Date(s) 9/14/17

Weather	Temperature
Cloudy	High <u> 70 </u>
	Low <u> 68 </u>

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-3	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	37.60'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	29.20	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	8.4	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	5.485	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	16.46	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/14/17	Pump/Method:	Peristaltic Pump
Purge Start Time:	10:14	Approx Flow Rate:	0.2 l/min
Purge Stop Time:	11:09	Approx Volume Removed:	
Did well dry out?	No		

Sampling

Date:	9/14/17	pH			
Time:	11:10 pm	Temp (°C)			
Sample ID:	MW-3	Conductivity (mS/cm)			
Sample Method:	Peristaltic pump and Bailer (VOCs)	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Clean

Comments:

PID -> 0.0 ppm



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WELL NO MW-4

Date(s) 9/14/17

Weather

Temperature

High

Low

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-4	Well Location:	
Well Diameter (in):	4"	Well Condition:	Casing Damaged
A. Total Well Depth (ft bgs):	36'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	29.15	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.85	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.47	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	13.419	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/11/17	Pump/Method:	Peristaltic
Purge Start Time:	3:04	Approx Flow Rate:	0.15 l/min
Purge Stop Time:	3:59	Approx Volume Removed:	2 gallons
Did well dry out?	No		

Sampling

Date:	9/14/17	pH			
Time:	4:00 pm	Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

--

Comments

29.05' ->Oil ->29.15'



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WELL NO MW-21

Date(s) 9/15/17

Weather

Temperature

High

Low

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-21	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	31	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.7	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	3.3	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	2.15	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	6.46	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/15/17	Pump/Method:	
Purge Start Time:		Approx Flow Rate:	
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:		Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

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Comments:

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WELL NO MW-9

Date(s) 9/15/17

Weather

Temperature

High

Low

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-9	Well Location:	
Well Diameter (in):	2"	Well Condition:	
A. Total Well Depth (ft bgs):	30	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.7	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	2.3	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.375	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	1.13	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:		Pump/Method:	
Purge Start Time:		Approx Flow Rate:	90 ml/min
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:		Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

--

Comments

PID – 6.7ppm



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WELL NO MW-27
Date(s) 9/15/17

Weather	Temperature
Hazy	High <u> </u>
	Low <u> </u>

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-27	Well Location:	
Well Diameter (in):	4"	Well Condition:	
A. Total Well Depth (ft bgs):	34	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	29	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	5'	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	3.265	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	9.795	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/15/17	Pump/Method:	
Purge Start Time:		Approx Flow Rate:	
Purge Stop Time:		Approx Volume Removed:	
Did well dry out?			

Sampling

Date:		pH			
Time:		Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Dark Grey Color, Odor, Sheen

Comments:

PID 23.7 ppm



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WELL NO MW-10

Date(s) 9/15/17

Weather

Temperature

Hazy

High

Low

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-10	Well Location:	
Well Diameter (in):		Well Condition:	
A. Total Well Depth (ft bgs):	30.35'	Depth to Bedrock (ft):	
B. TOC to Grade (ft):		TOC Elevation (ft):	
C. Depth to Water TOC (ft):	27.92'	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	2.43'	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.396	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	1.19	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	9/15/17	Pump/Method:	Peristaltic Pump
Purge Start Time:	8:05	Approx Flow Rate:	0.2 l/min
Purge Stop Time:	8:45	Approx Volume Removed:	
Did well dry out?			

Sampling

Date:	9/15/17	pH			
Time:	8:45	Temp (°C)			
Sample ID:		Conductivity (mS/cm)			
Sample Method:		TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Oil at 27.9-27.92'

Comments

PID – 5.9 ppm
Sheen and odor

Well location	UMW-D
Date	9/12/2017

Well location	UMW-D
Date	9/12/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------

Well location	MW-13
Date	9/12/2017

Well location	MW-13
Date	9/12/2017

Well location	MW-13
Date	9/12/2017

Well location	MW-13
Date	9/12/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------

Well location

MW-14

Date

9/13/2017

[illegible]

Low flow rate less than 10.0 ml/min

Well location	MW-2
Date	9/13/2017

Well location	MW-2
Date	9/13/2017

Well location	MW-2
Date	9/13/2017

Well location	MW-2
Date	9/13/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------

Date

9/13/2017 and 9/14/2017

9/13 tide going out well not recharging

[illegible]

Low flow rate less than 10.0 ml/min

MW-11

9/14/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------

MW-3

9/14/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------

Well location	MW-4
Date	9/14/2017

Well location	MW-4
Date	9/14/2017

Well location	MW-4
Date	9/14/2017

Well location	MW-4
Date	9/14/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------

Well location	MW-10
Date	9/15/2017

Well location	MW-10
Date	9/15/2017

Well location	MW-10
Date	9/15/2017

Well location	MW-10
Date	9/15/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------

Well location

MW-27

Date _____

9/15/2017

[illegible]

Low flow rate less than 10.0 ml/min

Well location

MW-9

Date

9/15/2017

[illegible]

Low flow rate	less than 10.0 ml/min
---------------	-----------------------



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WELL NO UMW-D
Date(s) 10/25/17

Weather	Temperature
Mostly cloudy	High <u>66</u>
	Low <u>53</u>

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	UMW-D	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	32.6	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	25.25	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.35	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.198	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.59	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	7:49am	Approx Flow Rate:	1.2L/min
Purge Stop Time:	7:59am	Approx Volume Removed:	4gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	8:20am	Temp (°C)			
Sample ID:	UMW-D	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0ppm

MS @ 8:50am

MSD @ 9:05am



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WELL NO MW-13
Date(s) 10/25/17

Weather	Temperature
Mostly cloudy	High <u> 66 </u>
	Low <u> 53 </u>

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-13	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	34.1	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	25.3	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	8.8	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.43	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	4.3	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	10:00am	Approx Flow Rate:	600mL/min
Purge Stop Time:	10:03am	Approx Volume Removed:	5gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	10:10am	Temp (°C)			
Sample ID:	MW-13	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0ppm



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WELL NO MW-14
Date(s) 10/25/17

Weather	Temperature
Mostly cloudy	High <u>66</u>
	Low <u>53</u>

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-14	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	33.0	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	26.25	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.75	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	1.1	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	3.3	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	11:04am	Approx Flow Rate:	0.55L/min
Purge Stop Time:	11:12am	Approx Volume Removed:	3.3gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	11:20am	Temp (°C)			
Sample ID:	MW-14	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0.0ppm
Sampling flow rate = 0.45L/min



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WELL NO MW-2
Date(s) 10/25/17

Weather	Temperature
Mostly cloudy	High <u> 66 </u>
	Low <u> 53 </u>

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-2	Well Location:	-
Well Diameter (in):	4	Well Condition:	-
A. Total Well Depth (ft bgs):	37.1	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	29.45	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.65	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	5.0	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	15.0	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/25/17	Pump/Method:	Geosub Pump
Purge Start Time:	1:12pm	Approx Flow Rate:	0.6L/min
Purge Stop Time:	1:39pm	Approx Volume Removed:	15gal
Did well dry out?	No		

Sampling

Date:	10/25/17	pH			
Time:	1:46pm	Temp (°C)			
Sample ID:	MW-2	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

PID = 0.0ppm
Sampling flow rate = 0.375L/min



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WELL NO MW-3
Date(s) 10/26/17

Weather	Temperature
Scattered rain	High <u> 54 </u>
	Low <u> 49 </u>

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-3	Well Location:	-
Well Diameter (in):	4	Well Condition:	Casing damaged.
A. Total Well Depth (ft bgs):	38	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	29.05	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	7.35	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.79	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	14.4	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/26/17	Pump/Method:	Geosub Pump
Purge Start Time:	9:15am	Approx Flow Rate:	0.5L/min
Purge Stop Time:	10:27am	Approx Volume Removed:	12gal
Did well dry out?	No		

Sampling

Date:	10/26/17	pH			
Time:	10:40	Temp (°C)			
Sample ID:	MW-3	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Rusty

Comments

PID = 0.0ppm Sampling flow rate = 0.3L/min



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WELL NO MW-4
Date(s) 10/26/17

Weather	Temperature
Scattered rain	High <u>54</u>
	Low <u>49</u>

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-4	Well Location:	-
Well Diameter (in):	4	Well Condition:	Damaged.
A. Total Well Depth (ft bgs):	35.9	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	29.1	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6.8	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	4.44	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	13.3	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/26/17	Pump/Method:	Geosub Pump
Purge Start Time:	11:39am	Approx Flow Rate:	0.7L/min
Purge Stop Time:	12:10pm	Approx Volume Removed:	9gal
Did well dry out?	No		

Sampling

Date:	10/26/17	pH			
Time:	12:15pm	Temp (°C)			
Sample ID:	MW-4	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Black, odor → purged to clear

Comments:

PID = 1.9ppm
Sample flow rate: 0.3L/min



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WELL NO MW-11

Date(s) 10/27/17

Weather

Temperature

Partly cloudy

High 60

Low 42

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-11	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	29.9	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	27.9	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	2		4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.326		6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	1		8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/27/17	Pump/Method:	Geosub Pump
Purge Start Time:	8:37am	Approx Flow Rate:	0.35L/min
Purge Stop Time:	8:56am	Approx Volume Removed:	2.7gal
Did well dry out?	No		

Sampling

Date:	10/27/17	pH			
Time:	9:10am	Temp (°C)			
Sample ID:	MW-11	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments

NA



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WELL NO MW-7
Date(s) 10/26/17 & 10/27/17

Weather	Temperature
Cloudy	High <u>60</u>
	Low <u>42</u>

Well Sampling Field Record

Project	South Island Apartments Brownfields Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-7	Well Location:	-
Well Diameter (in):	4	Well Condition:	-
A. Total Well Depth (ft bgs):	33.4	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	27.4	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	6	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	39.18	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	~12	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/26/17 & 10/27/17	Pump/Method:	Geosub Pump
Purge Start Time:	-	Approx Flow Rate:	0.6L/min
Purge Stop Time:	-	Approx Volume Removed:	5gal
Did well dry out?	Well purged dry both days		

Sampling

Date:	No	pH			
Time:	Sample	Temp (°C)			
Sample ID:	Collected	Conductivity (mS/cm)			
Sample Method:	-	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Not documented.

Comments:

Sample flow rate: 0.3L/min.. NO SAMPLE COLLECTED.. Purged dry twice

PID = 0.1ppm



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WELL NO MW-10
Date(s) 10/27/17

Weather	Temperature
Partly cloudy	High <u> 60 </u>
	Low <u> 42 </u>

Well Sampling Field Record

Project	South Island Apartments Project	Project No.	E17-1600
Location	Green Island, NY		

Well Info

Well #:	MW-10	Well Location:	-
Well Diameter (in):	2	Well Condition:	-
A. Total Well Depth (ft bgs):	30.35	Depth to Bedrock (ft):	-
B. TOC to Grade (ft):	-	TOC Elevation (ft):	-
C. Depth to Water TOC (ft):	28	G. Volume Factors:	2-inch well = 0.163 gal/ft
D. Water Column Height (ft):	1.65	= (A + B) - C	4-inch well = 0.653 gal/ft
E. Total Well Volume (gal):	0.269	= D * G	6-inch well = 1.468 gal/ft
F. Purge (3 volumes) (gal):	0.8	= E * 3	8-inch well = 2.609 gal/ft

Purge

Purge Date:	10/27/17	Pump/Method:	Geosub Pump
Purge Start Time:	11:14am	Approx Flow Rate:	0.3L/min
Purge Stop Time:	11:30am	Approx Volume Removed:	1.25
Did well dry out?	Yes (well recharged fast though)		

Sampling

Date:	10/27/17	pH			
Time:	12:35pm	Temp (°C)			
Sample ID:	MW-10	Conductivity (mS/cm)			
Sample Method:	Geosub Pump, Bailer for VOCs	TDS (ppm)			
		ORP (mV)			
		Turbidity (NTU)			
		DO (mg/L)			

Appearance

Sheen, odor, product.

Comments

PID = 4.6ppm

Well location

UMW-D

Date

10/25/2017

[illegible]

Low flow rate 1.2L/min (purge)

Well location

MW-13

Date

10/25/2017

[illegible]

Low flow rate	600mL/min	(purge)
---------------	-----------	---------

Date

10/25/2017

Low flow rate	0.55L/min	(purge)
----------------------	-----------	---------

Well location	MW-2
Date	10/25/2017

Well location	MW-2
Date	10/25/2017

Well location	MW-2
Date	10/25/2017

Well location	MW-2
Date	10/25/2017

[illegible]

Low flow rate 0.6L/min (purge)

Date _____

10/26/2017

[illegible]

Low flow rate	0.5L/min	(purge)
---------------	----------	---------

MW-11
10/27/2017

10/27/2017

[illegible]

0.35L/min	(purge)
-----------	---------

Date

10/26/2017 & 10/27/17

[illegible]

Low flow rate	0.6L/min	(purge)
---------------	----------	---------

Well location

MW-10

Date

10/27/2017

[illegible]

Low flow rate	0.3L/min	(purge)
---------------	----------	---------

APPENDIX D PHOTO LOGS



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A Woman Owned Business Enterprise (WBE)

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/20/2017

Direction:

Comments:

Location: SB-13



Photographer:

RC

Date: 7/20/2017

Direction:

Comments:

Location: SB-15 0-5 ft



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/20/2017

Direction:

Comments:

Location: SB-15
5ft-10ft



Photographer:

RC

Date: 7/20/2017

Direction:

Comments:

Location: SB-15



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/20/2017

Direction:

Comments:

Location: SB-18



Photographer:

RC

Date: 7/20/2017

Direction:

Comments:

Location: SB-34



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/21/2017

Direction:

Comments:

Location: SB-10



Photographer:

RC

Date: 7/21/2017

Direction:

Comments:

Location: SB-27



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/21/17

Direction:

Comments:

Location: SB-31



Photographer:

RC

Date: 7/24/2017

Direction:

Comments:

Location: SB-6



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/24/2017

Direction:

Comments: Location:

SB-17

(left to right)

25'-30'

20'-25'

15'-20'

10'-15'

5'-10'

0-5'

0-2'(offset)



Photographer:

RC

Date: 7/24/2017

Direction:

Comments:

Location:

SB-19 (front to
back)

0-2'(offset)

0-5'

5'-10'

10'-15'

15'-20'

20'-25'

25'-30'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/24/2017

Direction:

Comments: Location:

SB-21 (front to back)

0-2' (offset)

0-5'

5'-10'

10'-15'

15'-20'

20'-25'



Photographer:

RC

Date: 7/24/2017

Direction:

Comments:

Location: SB-24



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/25/2017

Direction:

Comments:

Location:
SB-12
(left to right)
25'-30'
20'-25'
15'-20'
10'-15'
5'-10'
0'-5'
0'-2' (offset)



Photographer:

RC

Date: 7/25/2017

Direction:

Comments:

Location: SB-16
(front to back)
0'-5'
5'-10'
10'-15'
15'-20'
20'-25'
25'-30'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/25/2017

Direction:

Comments:

Location: SB-26

(From front to back)

25'-30'; 20'-25'

15'-20'; 10'-15'

5'-10'; 0'-5'

0'-2' (offset)



Photographer:

RC

Date: 7/25/2017

Direction:

Comments:

Location: SB-25

(from front to back)

30'-25'; 20'-25'

15'-20'; 10'-15'

5'-10'; 0'-5'

0'-2' (offset)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:
RC

Date: 7/26/2017

Direction:

Comments:

Location:
SB-30 (left to
right)
20'-25'
15'-20'
10'-15'
5'-10'
0'-5'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-11
5'-10' (left)
0-5' (center)
0-2' (offset)(right)



Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-11
(from left to right)
25'-30'
20'-25'
15'-20'
10'-15'
5'-10'
0-5'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-11
30'-35' (left)



Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-9
0-5 ft(offset)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-9

(left to right)

20'-25'

15'-20'

10'-15'

5'-10'

0-5'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-9
25'-30'
20'-25'
10'-15'
5'-10'



Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-22
2"-2'(offset)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-22
(from left to right)
15'-20'
10'-15'
5'-10'
2"-5'



Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-22
(from left to right)
20'-25'
15'-20'
10'-20'
5'-10'
2"-5'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-22
(from left to right)
25'-30' (left)
20'-25'
15'-20'
10'-15'
5'-10'



Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

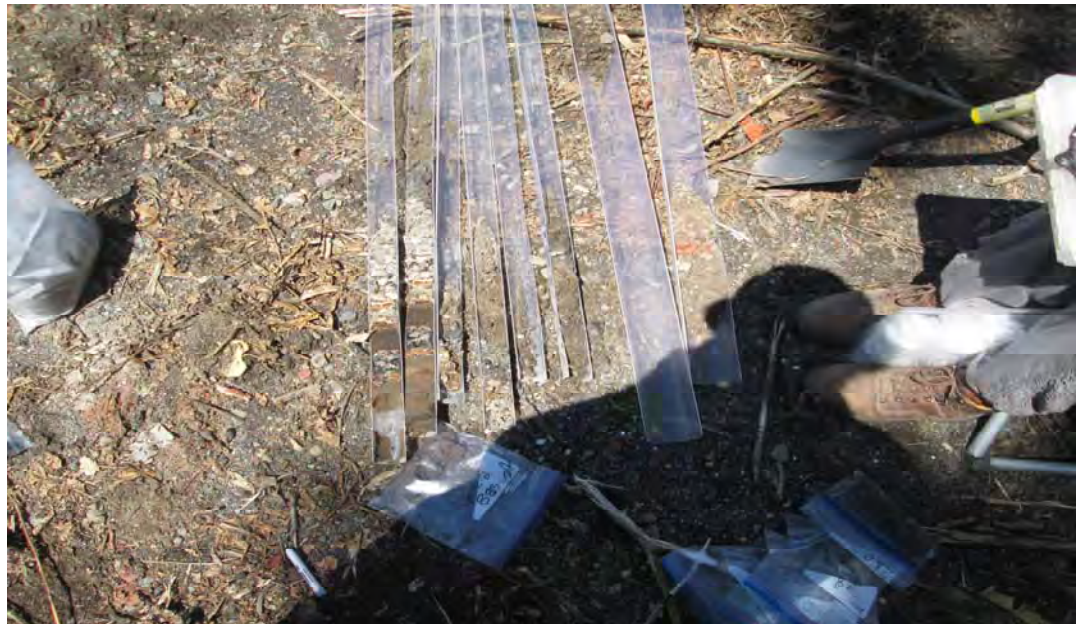
Location: SB-8
(from left to right)

10'-15'

5'-10'

0-5'

2"-2' (offset)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-8
15'-20' (closest)



Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-5

(in order from left to right)

25'-30'

20'-25'

15'-20'

10'-15'

5'-10'

0'-5'

2"-2' (offset)



Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Photo of the Geoprobe that was used.



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-20

0'-5'(right)

5'-10'(center)

10'-15'(left)



Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-20

15'-20'(left)

10'-15'(right)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-20
20'-25'



Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-20
25'-30'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-20
0-2' (offset)



Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-1

(from left to right)

10'-15'

5'-10'

0-5'

0-2'(offset)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-1

(from left to right)

25'-30'

20'-25'

15'-20'

10'-15'



Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-4

(from left to right)

0'-2' (offset)

0'-5'

5'-10'

10'-15'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-4
15'-20'



Photographer:

RC

Date: 7/26/2017

Direction:

Comments:

Location: SB-7
(from left to right)
0-2' (offset)
0-5'
5-10'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-23
(from left to right)
0-2' (offset)
0-5'
5-10'
10'-15'



Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-33
(from right to left)
0-2' (offset)
0-5'
5'-10'
10'-15'
15'-20'



Photographer:

RC

Date: 7/27/2017

Direction:

Comments:

Location: SB-33



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-36

(from left to right)

15'-20'

10'-15'

5'-10'

0-5'

0-2' (offset)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-29

0-2' (offset)



Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-29

5'-10' (farthest)

0-5' (closest)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-29

(from left to right)

20'-25'

15'-20'

10'-15'



Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-28

(right to left)

0-2' (offset)

0-5'

5'-10'

10'-15'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-28

(from left to right)

25'-30'

20'-25'

15'-20'

10'-15'



Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-2

5'-10' (left)

0-5' (center)

0-2' (offset)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/28/2017

Direction:

Comments:

Location: SB-2
15'-20' (left)



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/31/2017

Direction:

Comments:

Location: SB-15
20'-25'



Photographer:

Date:

Direction:

Comments:

Location:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 7/31/2017

Direction:

Comments:

Location: SB-18
25'-30' (left)
20'-25' (right)



Photographer:

RC

Date: 7/31/2017

Direction:

Comments:

Location: SB-14
20'-25'



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Islandand

Photographer:

RC

Date:8/03/2017

Direction:

Comments:

Location: BS-3A



Photographer:

RC

Date:8/03/2017

Direction:

Comments:

Location: BS-3B



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/03/2017

Direction:

Comments:

Location: BS-4B



Photographer:

Date:

Direction:

Comments:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location of BS-5



Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location of BS-6
and SE-7



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location of BS-7



Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location SE-6



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

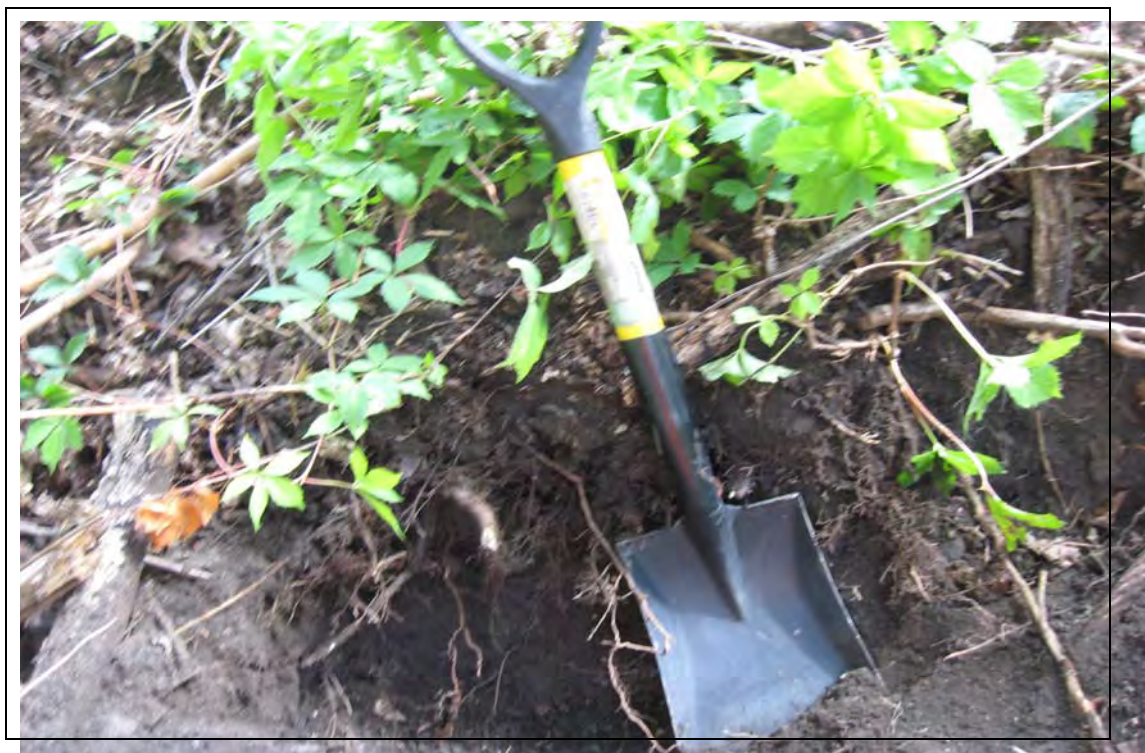
CV

Date: 8/08/2017

Direction:

Comments:

Location SB-9



Photographer:

CV

Date: 8/08/2017

Direction:

Comments:

Location SB-9



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

Date:

Direction:

Comments:

Location:

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Area between SE-9
and SE-10



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

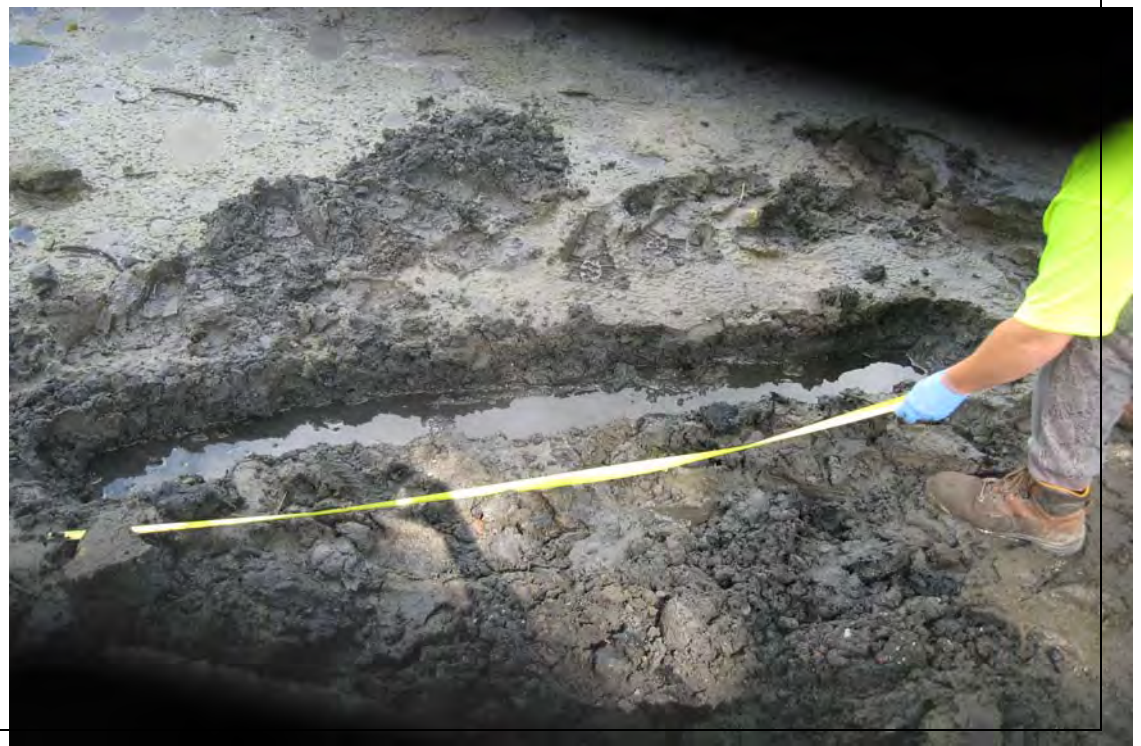
RC

Date: 8/08/2017

Direction:

Comments:

Pore water
sample trench



Photographer:

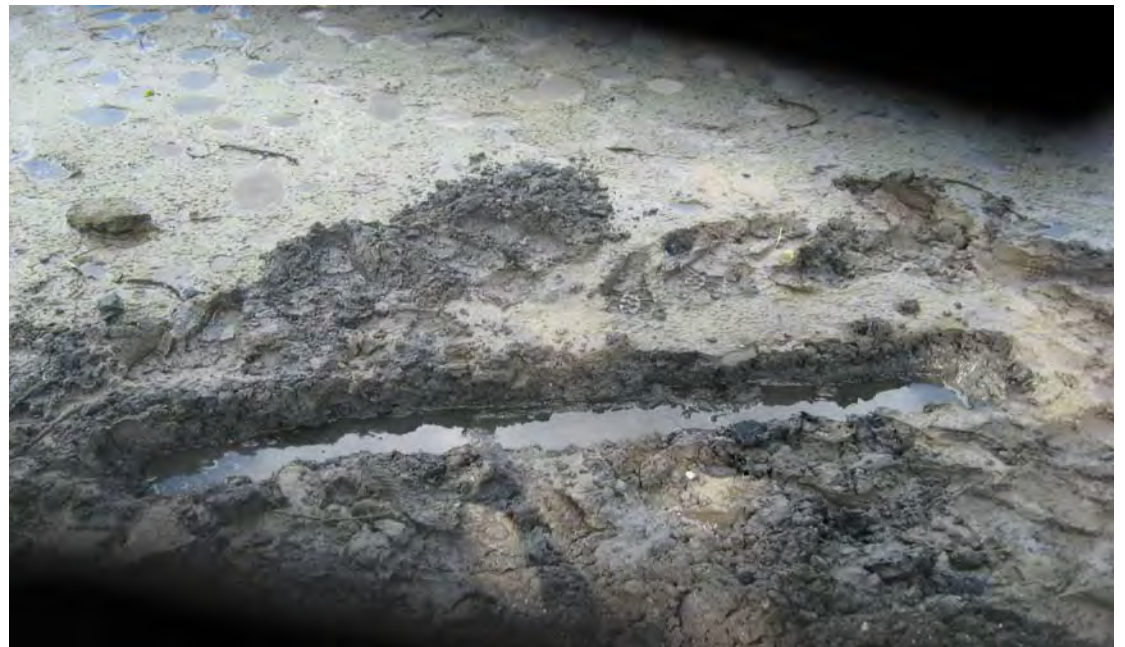
RC

Date: 8/08/2017

Direction:

Comments:

Pore water
sample trench



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

Date:

Direction:

Comments:

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

water pore sample



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location of pore water
sample trench



Photographer:

Date:

Direction:

Comments:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location SE-8



Photographer:

Date:

Direction:

Comments:

Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location of BS-8
and SE-9



Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

Location SE-10



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

View of bank
from SE-9



Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

View of bank
from SE-9



Envirospec Engineering, PLLC
Photographic Record

Site Name: Green Island Remediation

Project Number: 17-1600

Site Location: Green Island

Photographer:

RC

Date: 8/08/2017

Direction:

Comments:

View of bank
from SE-9



Photographer:

CV

Date: 8/08/2017

Direction:

Comments:

View of bank
from SE-10



APPENDIX E

TABLES OF SAMPLE RESULTS



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

TABLE 13. Soil Analytical Results

	Sample ID				SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
	Depth				1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
	Sample Date				7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial												
Metals																
Aluminum					9910	8970	4070	8610	7700	7140	8640	7910	7470	9450	5340	NA*
Antimony					2.1 J	ND	ND	ND	ND	ND	ND	ND	4.9	2.6 J	ND	NA*
Arsenic		16	16	16	14.3	5.7	7.9	16.2	3.4	2.9	6.4	3.5	30.1	20.3	4.3	NA*
Barium		400	400	10000	235	78.1	52.8	73.5	51.1	42.3	51.5	46.7	203	349	32.8	NA*
Beryllium		72	590	2700	0.29	0.20 J	ND	ND	0.15 J	0.070 J	0.15 J	0.13 J	1.2	0.52	0.11 J	NA*
Cadmium		4.3	9.3	60	1.3	0.28	0.77	1.3	0.22	0.19	0.22	0.26	1.6	0.9	0.12 J	NA*
Calcium					9830	2860	3690	19200	3690	3790	2040	4220	8020	13900	968	NA*
Chromium (1)		110	140	800	18.60	13.70	ND	7.50	7.40	6.70	5.40	7.40	20.20	15.40	4.40	NA*
Cobalt					10.8	7.9	10.5	16.2	7.4	6.8	4.9	7.5	10.3	12.1	4.6	NA*
Copper		270	270	10000	118	26.2	102	33.7	10.7	8.5	18.2	11.7	173	156	8.7	NA*
Iron					34900	20300	57900	66500	16700	15000	18900	16600	33000	22400	14300	NA*
Lead		400	1000	3900	711	71.8	342	60.4	9.8	6.2	49.1	6.3	687	2290	6.4	NA*
Magnesium					3340	3650	1220	6480	4000	3940	1790	4190	2150	2070	2940	NA*
Manganese		2000	10000	10000	656	281	371	1450	342	142	252	207	495	392	391	NA*
Nickel		310	310	10000	25.2	17.5	18.6	30.9	15.5	13.5	10.2	15.5	36.1	29.1	10.3	NA*
Potassium					1960	1340	925	1370	1090	970	884	1070	1540	2290	675	NA*
Selenium		180	1500	6800	1.2	0.35 J	1.9	1.4	ND	0.37 J	0.34 J	ND	1.3	1.8	ND	NA*
Silver		180	1500	6800	4.5	2.5	6.4	7	2	1.8	2.2	2	4.5	3.3	1.8	NA*
Sodium					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*
Thallium					ND	ND	ND	0.50 J	ND	ND	ND	ND	ND	ND	ND	NA*
Vanadium					24.8	16.6	11.5	31.1	14.7	13.5	16.4	15.4	24.5	28.5	7.6	NA*
Zinc		10000	10000	10000	474	80.1	53.1	53.9	48.8	42.4	90.1	49.8	558	530	32.6	NA*
Mercury		0.81	2.8	5.7	2.6	0.14	6.9	0.067	ND	0.012 J	0.018 J	ND	1.1	11.6	ND	NA*
Metals, SPLP																
Arsenic	0.025				NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Barium	1				NA*	NA*	0.011 J	0.0066 J	0.021 J	NA*	NA*	0.0094 J	0.022 J	NA*	NA*	NA*
Cadmium	0.005				NA*	NA*	ND	ND	ND	NA*	NA*	0.000078 J	0.000061 J	NA*	NA*	NA*
Chromium	0.05				NA*	NA*	0.0020 J	0.0024 J	0.0053 J	NA*	NA*	0.0094 J	0.0091 J	NA*	NA*	NA*
Lead	0.025				NA*	NA*	0.074 J	0.011 J	0.0044 J	NA*	NA*	0.0043 J	0.071 J	NA*	NA*	NA*
Selenium	0.01				NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.0064 J	NA*	NA*	NA*
Silver	0.05				NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Mercury	0.0007				NA*	NA*	0.00024	ND	ND	NA*	NA*	ND	0.00031	NA*	NA*	NA*
Pesticides																
4,4'-DDD		13	92	180	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
4,4'-DDE		8.9	62	120	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
4,4'-DDT		7.9	47	94	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Aldrin		0.097	0.68	1.4	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Dieldrin		0.2	1.4	2.8	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endosulfan I		24	200	920	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endosulfan II		24	200	920	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endosulfan sulfate		24	200	920	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endrin		11	89	410	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endrin aldehyde					NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Endrin ketone					NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Heptachlor		2.1	15	29	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Heptachlor epoxide					NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Methoxychlor					NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
Toxaphene					NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
alpha-BHC		0.48	3.4	6.8	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
alpha-Chlordane		4.2	24	47	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
beta-BHC		0.36	3	14	NA*	NA*	NA*	ND	0.0072	NA*	NA*	ND	ND	NA*	NA*	ND
delta-BHC		100	500	1000	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
gamma-BHC (Lindane)		1.3	9.2	23	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
gamma-Chlordane					NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND

TABLE 13. Soil Analytical Results

	Sample ID				SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
	Depth				1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
	Sample Date				7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial												
PCBs																
PCB-1016 (Aroclor 1016)		1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1221 (Aroclor 1221)		1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1232 (Aroclor 1232)		1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1242 (Aroclor 1242)		1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1248 (Aroclor 1248)		1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1254 (Aroclor 1254)		1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
PCB-1260 (Aroclor 1260)		1	1	25	NA*	NA*	NA*	ND	ND	NA*	NA*	ND	ND	NA*	NA*	ND
VOCs																
1,1,1-Trichloroethane		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1,2,2-Tetrachloroethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1,2-Trichloroethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1,2-Trichlorotrifluoroethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1-Dichloroethane		26	240	480	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,1-Dichloroethene		100	500	10000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2,4-Trichlorobenzene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dibromo-3-chloropropane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dibromoethane (EDB)					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dichlorobenzene		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dichloroethane		3.1	30	60	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,2-Dichloropropane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,3-Dichlorobenzene		49	280	560	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
1,4-Dichlorobenzene		13	130	250	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Butanone (MEK)		100	500	1000	NA*	NA*	0.0604	ND	ND	NA*	NA*	0.0447	ND	NA*	NA*	NA*
2-Hexanone					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Methyl-2-pentanone (MIBK)					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acetone		100	500	1000	NA*	NA*	0.22	0.0323	ND	NA*	NA*	0.205	0.0049	NA*	NA*	NA*
Benzene		4.8	44	89	NA*	NA*	0.0343	0.0044	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Bromodichloromethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Bromoform					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Bromomethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Carbon disulfide					NA*	NA*	0.0044	ND	ND	NA*	NA*	0.0014 J	ND	NA*	NA*	NA*
Carbon tetrachloride		2.4	22	44	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chlorobenzene		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chloroethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chloroform		49	350	700	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chloromethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Cyclohexane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dibromochloromethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dichlorodifluoromethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Ethylbenzene		41	390	780	NA*	NA*	0.0091	0.0012 J	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Isopropylbenzene (Cumene)					NA*	NA*	0.0116	ND	0.617	NA*	NA*	ND	ND	NA*	NA*	NA*
Methyl acetate					NA*	NA*	ND	ND	0.134 J	NA*	NA*	ND	ND	NA*	NA*	NA*
Methyl-tert-butyl ether		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Methylcyclohexane					NA*	NA*	0.114	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Methylene Chloride		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Styrene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Tetrachloroethene		19	150	300	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Toluene		100	500	1000	NA*	NA*	0.0188	0.0072	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Trichloroethene		21	200	400	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Trichlorofluoromethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Vinyl chloride		0.9	13	27	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Xylene (Total) (2)		100	500	1000	NA*	NA*	0.0347	0.0111	ND	NA*	NA*	ND	0.0028 J	NA*	NA*	NA*
cis-1,2-Dichloroethene		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
cis-1,3-Dichloropropene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
trans-1,2-Dichloroethene		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
trans-1,3-Dichloropropene					NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
	Depth				1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
	Sample Date				7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial												
SVOCs																
1,2,4-Trichlorobenzene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4,5-Trichlorophenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4,6-Trichlorophenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dichlorophenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dimethylphenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dinitrophenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,4-Dinitrotoluene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2,6-Dinitrotoluene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Chloronaphthalene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Chlorophenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Methylnaphthalene					NA*	NA*	0.37	ND	ND	NA*	NA*	ND	0.17	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Nitroaniline					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
2-Nitrophenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		100	500	1000	NA*	NA*	0.0987	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
3,3'-Dichlorobenzidine					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
3-Nitroaniline					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol					NA*	NA*	0.634 J	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Bromophenylphenyl ether					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Chloro-3-methylphenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Chloroaniline					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Chlorophenylphenyl ether					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Nitroaniline					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
4-Nitrophenol					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acenaphthene		100	500	1000	NA*	NA*	0.119	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acenaphthylene		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Acetophenone					NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.0904	NA*	NA*	NA*
Anthracene		100	500	1000	NA*	NA*	0.172	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Atrazine					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Benzaldehyde					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Benzo(a)anthracene		1	5.6	11	NA*	NA*	0.342	ND	ND	NA*	NA*	ND	0.292	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1.1	NA*	NA*	0.211	ND	ND	NA*	NA*	ND	0.362	NA*	NA*	NA*
Benzo(b)fluoranthene		1	5.6	11	NA*	NA*	0.342	ND	ND	NA*	NA*	ND	0.728	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	500	1000	NA*	NA*	0.107	ND	ND	NA*	NA*	ND	0.206	NA*	NA*	NA*
Benzo(k)fluoranthene		3.9	56	110	NA*	NA*	0.129	ND	ND	NA*	NA*	ND	0.322	NA*	NA*	NA*
Biphenyl (Diphenyl)					NA*	NA*	0.103	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Butylbenzylphthalate					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Caprolactam					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Carbazole					NA*	NA*	0.0911	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Chrysene		3.9	56	110	NA*	NA*	0.523	ND	ND	NA*	NA*	ND	0.422	NA*	NA*	NA*
Di-n-butylphthalate					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Di-n-octylphthalate					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.56	1.1	NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.0936	NA*	NA*	NA*
Dibenzofuran		59	350	1000	NA*	NA*	0.123	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Diethylphthalate					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Dimethylphthalate					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Fluoranthene		100	500	1000	NA*	NA*	0.566	0.116	ND	NA*	NA*	ND	0.451	NA*	NA*	NA*
Fluorene		100	500	1000	NA*	NA*	0.249	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachloro-1,3-butadiene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachlorobenzene		1.2	6	12	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachlorocyclopentadiene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Hexachloroethane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	NA*	NA*	0.101	ND	ND	NA*	NA*	ND	0.209	NA*	NA*	NA*
Isophorone					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
N-Nitroso-di-n-propylamine					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
N-Nitrosodiphenylamine					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB-13 B	SB-13 C	SB-13 D BLACK LAYER	SB-14 BO	SB-14 C	SB-15 C	SB-15 O	SB-18 C	SB-18 O1	SB-34 BO	SB-34 C	SB-34 D BLACK LAYER
	Depth				1'-2'	25'-30'	7'-9'	3'-5'	15'-20'	15'-20'	0-2'	15'-20'	0-2'	1'-2'	28'-30'	7'-9'
	Sample Date				7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial												
Naphthalene		100	500	1000	NA*	NA*	0.336	ND	ND	NA*	NA*	0.136	0.143	NA*	NA*	NA*
Nitrobenzene					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Pentachlorophenol		6.7	6.7	55	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Phenanthrene		100	500	1000	NA*	NA*	0.883	ND	ND	NA*	NA*	ND	0.286	NA*	NA*	NA*
Phenol		100	500	1000	NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
Pyrene		100	500	1000	NA*	NA*	0.537	0.0863	ND	NA*	NA*	ND	0.825	NA*	NA*	NA*
bis(2-Chloroethoxy)methane					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
bis(2-Chloroethyl) ether					NA*	NA*	ND	ND	ND	NA*	NA*	ND	ND	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate					NA*	NA*	ND	ND	ND	NA*	NA*	ND	0.344	NA*	NA*	NA*
TPH																
Total Petroleum Hydrocarbons					NA*	NA*	381	140	268	NA*	NA*	167	723	NA*	NA*	NA*

- Notes:
- (1) Standards based on Chromium, hexavalent.
 - (2) Standards based on Xylene (mixed).
 - (3) Groundwater standards only provided for those metals for which SPLP analyses were completed
 - (4) 'ND' = Not Detected
 - (5) All results in ppm
 - (6) Results exceeding Groundwater A Standard's are RED
 - (7) Results exceeding residential SCOs are RED
 - (8) Results exceeding commercial SCOs are BLUE
 - (9) Results exceeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID				SB-10B	SB-10C	SB-10C DUP	SB-27 DO	SB-27 DO2	SB-27B	SB-27C	SB-31 D	SB-31B	SB-31C	SB-31C DUP	SB-32A DUP	SB-32A	SB-32B	SB-32C	SB-35 BO	SB-35 CO2	SB-35 D
	Depth				1'-3'	28'-30'	28'-30'	4'-5'	18'-20'	2'-3'	26'-27'	19'-20'	1'-3'	30'-35'	30'-35'	0-2"	0-2"	2"-2'	25'-30'	2'-4'	26'-27'	5'-10'
	Sample Date				7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/20/2017	7/21/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																		
Metals																						
Aluminum					15500	8870	8060	NA*	NA*	15000	8780	NA*	11700	7550	7060	NA*	12000	9510	7950	9240	7760	9410
Antimony					ND	ND	ND	NA*	NA*	ND	ND	NA*	ND	ND	ND	NA*	ND	ND	ND	ND	ND	ND
Arsenic		16	16	16	13.2	3.7	3.8	NA*	NA*	8.1	3.4	NA*	17	4.1	2.4	NA*	15.1	11.5	3.6	11.8	3.9	6.7
Barium		400	400	10000	249	62.9	41.4	NA*	NA*	116	39.4	NA*	286	35.1	32.3	NA*	358	150	47.6	133	57.7	84.7
Beryllium		72	590	2700	0.36	0.19 J	0.12 J	NA*	NA*	0.52	0.065 J	NA*	0.5	0.037 J	0.077 J	NA*	8.4	0.65	0.11 J	ND	0.13 J	ND
Cadmium		4.3	9.3	60	0.92	0.15 J	0.16 J	NA*	NA*	0.49	0.19	NA*	0.91	0.25	0.10 J	NA*	2.4	1.4	0.14 J	1	0.15 J	0.84
Calcium					41300	4990	4260	NA*	NA*	7770	1250	NA*	32900	3290	3210	NA*	8110	9360	4680	2980	1640	3510
Chromium (1)		110	140	800	16.7	7.9	7	NA*	NA*	13.9	5.6	NA*	21.1	3.8	4.5	NA*	75.8	21.9	6.5	16.7	7.5	4.8
Cobalt					10.8	7.8	7.2	NA*	NA*	11.5	6.6	NA*	8.7	7.5	6.2	NA*	20.9	10.4	6.9	12.1	6.2	11.2
Copper		270	270	10000	111	12.6	10.1	NA*	NA*	32.4	9.9	NA*	115	12.8	7.9	NA*	569	389	13.8	87.1	12.2	45.4
Iron					43900	17700	16300	NA*	NA*	30500	19100	NA*	41400	35500	15200	NA*	60000	40600	20900	61200	17700	56400
Lead		400	1000	3900	373	8.9	6.9	NA*	NA*	17	5.7	NA*	521	47.9	5.1	NA*	1030	387	30.9	198	9.1	128
Magnesium					5640	4650	4150	NA*	NA*	6810	5240	NA*	3830	3830	3970	NA*	4290	3860	4130	2460	3670	2430
Manganese		2000	10000	10000	1040	247	146	NA*	NA*	776	309	NA*	576	427	280	NA*	666	495	361	747	200	654
Nickel		310	310	10000	32.4	17.9	15.7	NA*	NA*	25.9	15.2	NA*	22	15.8	13.3	NA*	122	36.3	14.7	24.8	13.4	19.3
Potassium					2780	1460	1520	NA*	NA*	1950	830	NA*	2260	1400	1240	NA*	2570	1880	1440	1480	1270	1720
Selenium		180	1500	6800	1.1	0.37 J	0.39 J	NA*	NA*	0.41 J	ND	NA*	1.8	ND	ND	NA*	1.6	1.2	ND	1.1	ND	1.1
Silver		180	1500	6800	3.9	1.9	1.8	NA*	NA*	3.4	2.3	NA*	4.2	3.2	1.7	NA*	6.3	3.8	1.9	7	2.2	6.3
Sodium					1290	ND	ND	NA*	NA*	ND	ND	NA*	325 J	ND	ND	NA*	ND	ND	ND	ND	ND	ND
Thallium					0.21 J	ND	ND	NA*	NA*	ND	ND	NA*	ND	0.31 J	ND	NA*	0.44 J	ND	ND	ND	ND	ND
Vanadium					25.6	17.4	16.4	NA*	NA*	22	12	NA*	27.5	15.6	11.7	NA*	27.7	24.8	14.2	30.8	13.3	21.8
Zinc		10000	10000	10000	289	54.7	50.6	NA*	NA*	82.7	47.7	NA*	405	41.8	43.9	NA*	1820	438	51.8	179	43.1	104
Mercury		0.81	2.8	5.7	2.6	ND	ND	NA*	NA*	0.066	0.052	NA*	1.5	0.042	ND	NA*	2.5	0.93	0.052	0.65	ND	0.49
Metals, SPLP																						
Arsenic	0.025				NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	0.029
Barium	1				NA*	0.0079 J	NA*	NA*	NA*	NA*	NA*	NA*	0.037 J	NA*	NA*	0.021 J	0.022 J	0.013 J	0.0067 J	0.054 J	NA*	0.010 J
Cadmium	0.005				NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	0.00070 J	ND	ND	NA*	ND
Chromium	0.05				NA*	0.0043 J	NA*	NA*	NA*	NA*	NA*	NA*	0.011	NA*	NA*	0.0091 J	0.0087 J	0.0050 J	0.0026 J	0.03	NA*	0.0042 J
Lead	0.025				NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	0.15	NA*	NA*	0.091	0.087	0.018	ND	0.035	NA*	0.0046 J
Selenium	0.01				NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Silver	0.05				NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Mercury	0.0007				NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	0.00064	NA*	NA*	0.00035	0.00037	0.00024	ND	0.00028	NA*	ND
Pesticides																						
4,4'-DDD		13	92	180	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
4,4'-DDE		8.9	62	120	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
4,4'-DDT		7.9	47	94	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	0.0203	NA*	NA*	ND	0.0054	ND	ND	ND	NA*	ND
Aldrin		0.097	0.68	1.4	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Dieldrin		0.2	1.4	2.8	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endosulfan I		24	200	920	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endosulfan II		24	200	920	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	0.0192	ND	ND	ND	ND	NA*	ND
Endosulfan sulfate		24	200	920	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endrin		11	89	410	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Endrin aldehyde					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	0.0157	ND	ND	ND	ND	NA*	ND
Endrin ketone					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	0.0044	ND	ND	ND	NA*	ND
Heptachlor		2.1	15	29	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Heptachlor epoxide					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
Methoxychlor					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	0.0693	NA*	NA*	0.0434	ND	ND	ND	ND	NA*	ND
Toxaphene					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
alpha-BHC		0.48	3.4	6.8	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	0.0028	ND	ND	ND	ND	NA*	ND
alpha-Chlordane		4.2	24	47	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
beta-BHC		0.36	3	14	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
delta-BHC		100	500	1000	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
gamma-BHC (Lindane)		1.3	9.2	23	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
gamma-Chlordane					NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND

TABLE 13. Soil Analytical Results

	Sample ID					SB-10B	SB-10C	SB-10C DUP	SB-27 DO	SB-27 DO2	SB-27B	SB-27C	SB-31 D	SB-31B	SB-31C	SB-31C DUP	SB-32A DUP	SB-32A	SB-32B	SB-32C	SB-35 BO	SB-35 CO2	SB-35 D
	Depth					1'-3'	28'-30'	28'-30'	4'-5'	18'-20'	2'-3'	26'-27'	19'-20'	1'-3'	30'-35'	30'-35'	0-2"	0-2"	2"-2'	25'-30'	2'-4'	26'-27'	5'-10'
	Sample Date					7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/20/2017	7/21/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																			
PCBs																							
PCB-1016 (Aroclor 1016)		1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1221 (Aroclor 1221)		1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1232 (Aroclor 1232)		1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1242 (Aroclor 1242)		1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1248 (Aroclor 1248)		1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1254 (Aroclor 1254)		1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
PCB-1260 (Aroclor 1260)		1	1	25	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND
VOCs																							
1,1,1-Trichloroethane		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1,2,2-Tetrachloroethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1,2-Trichloroethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1,2-Trichlorotrifluoroethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1-Dichloroethane		26	240	480	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,1-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2,4-Trichlorobenzene					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dibromo-3-chloropropane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dibromoethane (EDB)					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dichlorobenzene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dichloroethane		3.1	30	60	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,2-Dichloropropane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,3-Dichlorobenzene		49	280	560	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
1,4-Dichlorobenzene		13	130	250	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Butanone (MEK)		100	500	1000	ND	ND	ND	0.0584	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0513	NA*	ND
2-Hexanone					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Methyl-2-pentanone (MIBK)					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Acetone		100	500	1000	0.0076	ND	ND	0.258	0.0629		NA*	NA*	0.0103	NA*	NA*	NA*	NA*	ND	0.0025	0.0138	0.158	NA*	ND
Benzene		4.8	44	89	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0014 J	NA*	ND
Bromodichloromethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Bromoform					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Bromomethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Carbon disulfide					ND	ND	ND	ND	ND	ND	NA*	NA*	0.0017 J	NA*	NA*	NA*	NA*	ND	ND	ND	0.0019 J	NA*	ND
Carbon tetrachloride		2.4	22	44	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chlorobenzene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chloroethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chloroform		49	350	700	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Chloromethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Cyclohexane					ND	1.34	3.4	0.0026 J	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	0.372
Dibromochloromethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Dichlorodifluoromethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Ethylbenzene		41	390	780	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0025	NA*	0.408
Isopropylbenzene (Cumene)					ND	4.18	2.57	0.0049	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0022 J	NA*	0.235 J
Methyl acetate					ND	0.902	1.85	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	0.503
Methyl-tert-butyl ether		100	500	1000	ND	ND	ND	0.0071	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Methylcyclohexane					ND	6.91	12.1	0.0125	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0106	NA*	1.27
Methylene Chloride		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Styrene					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Tetrachloroethene		19	150	300	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Toluene		100	500	1000	ND	ND	ND	ND	0.0011 J	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0019 J	NA*	0.16 J
Trichloroethene		21	200	400	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Trichlorofluoromethane					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Vinyl chloride		0.9	13	27	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Xylene (Total) (2)		100	500	1000	ND	ND	ND	0.0019 J	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	0.0062	NA*	0.802
cis-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
cis-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
trans-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND

TABLE 13. Soil Analytical Results

	Sample ID					SB-10B	SB-10C	SB-10C DUP	SB-27 DO	SB-27 DO2	SB-27B	SB-27C	SB-31 D	SB-31B	SB-31C	SB-31C DUP	SB-32A DUP	SB-32A	SB-32B	SB-32C	SB-35 BO	SB-35 CO2	SB-35 D
	Depth					1'-3'	28'-30'	28'-30'	4'-5'	18'-20'	2'-3'	26'-27'	19'-20'	1'-3'	30'-35'	30'-35'	0-2"	0-2"	2"-2'	25'-30'	2'-4'	26'-27'	5'-10'
	Sample Date					7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/20/2017	7/21/2017	7/20/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																			
SVOCs																							
1,2,4-Trichlorobenzene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,2'-Oxybis(1-chloropropane)						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4,5-Trichlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4,6-Trichlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dichlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dimethylphenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dinitrophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,4-Dinitrotoluene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2,6-Dinitrotoluene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Chloronaphthalene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Chlorophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Methylnaphthalene						0.0807	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.15	ND	ND	0.628	NA*	3.26
2-Methylphenol(o-Cresol)		100	500	1000		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Nitroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
2-Nitrophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
3&4-Methylphenol(m&p Cresol)		100	500	1000		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
3,3'-Dichlorobenzidine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
3-Nitroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4,6-Dinitro-2-methylphenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Bromophenylphenyl ether						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Chloro-3-methylphenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Chloroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Chlorophenylphenyl ether						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Nitroaniline						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
4-Nitrophenol						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Acenaphthene		100	500	1000		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.0956	ND	ND	0.325	NA*	ND
Acenaphthylene		100	500	1000		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.137	ND	ND	0.374	NA*	ND
Acetophenone						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Anthracene		100	500	1000		ND	0.89	1.92	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.347	0.106	ND	0.933	NA*	0.275
Atrazine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Benzaldehyde						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.178	ND	ND	ND	NA*	ND
Benzo(a)anthracene		1	5.6	11		0.254	ND	0.164	NA*	NA*	NA*	NA*	NA*	0.113	NA*	NA*	NA*	1.69	0.456	ND	2.37	NA*	ND
Benzo(a)pyrene		1	1	1.1		0.268	ND	ND	NA*	NA*	NA*	NA*	NA*	0.103	NA*	NA*	NA*	1.74	0.446	ND	2.04	NA*	ND
Benzo(b)fluoranthene		1	5.6	11		0.479	ND	ND	NA*	NA*	NA*	NA*	NA*	0.201	NA*	NA*	NA*	2.49	0.617	ND	3.21	NA*	0.101
Benzo(g,h,i)perylene		100	500	1000		0.162	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.822	0.268	ND	0.616	NA*	ND
Benzo(k)fluoranthene		3.9	56	110		0.252	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	1.14	0.333	ND	1.5	NA*	ND
Biphenyl (Diphenyl)						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	0.117	NA*	ND
Butylbenzylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.261	ND	ND	ND	NA*	ND
Caprolactam						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Carbazole						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.121	ND	ND	0.397	NA*	ND
Chrysene		3.9	56	110		0.353	ND	0.411	NA*	NA*	NA*	NA*	NA*	0.187	NA*	NA*	NA*	1.86	0.527	ND	2.21	NA*	0.0983
Di-n-butylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Di-n-octylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Dibenz(a,h)anthracene		0.33	0.56	1.1		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.25	0.0873	ND	0.21	NA*	ND
Dibenzofuran		59	350	1000		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	0.328	NA*	ND
Diethylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Dimethylphthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Fluoranthene		100	500	1000		0.406	ND	0.612	NA*	NA*	NA*	NA*	NA*	0.154	NA*	NA*	NA*	2.92	0.8	ND	4.26	NA*	0.183
Fluorene		100	500	1000		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.102	ND	ND	0.587	NA*	1.31
Hexachloro-1,3-butadiene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Hexachlorobenzene		1.2	6	12		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Hexachlorocyclopentadiene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Hexachloroethane						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Indeno(1,2,3-cd)pyrene		0.5	5.6	11		0.107	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.884	0.26	ND	0.697	NA*	ND
Isophorone						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
N-Nitroso-di-n-propylamine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
N-Nitrosodiphenylamine						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Naphthalene		100	500	1000		ND	ND	6.24	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.128	ND	ND	0.391	NA*	1.2
Nitrobenzene						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Pentachlorophenol		6.7	6.7	55		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Phenanthrene		100	500	1000		0.433	4.84	7.69	NA*	NA*	NA*	NA*	NA*	0.182	NA*	NA*	NA*	1.72	0.521	ND	4.8	NA*	3.72
Phenol		100	500	1000		ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
Pyrene		100	500	1000		0.849	1.58	2.02	NA*	NA*	NA*	NA*	NA*	0.183	NA*	NA*	NA*	3.59	0.889	ND	3.86	NA*	0.313
bis(2-Chloroethoxy)methane						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
bis(2-Chloroethyl) ether						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	ND	ND	ND	ND	NA*	ND
bis(2-Ethylhexyl)phthalate						ND	ND	ND	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	NA*	0.111	ND	ND	0.0939	NA*	ND
TPH																							
Total Petroleum Hydrocarbons						197	7490	2860	269	116	NA*	NA*	353	NA*	NA*	NA*	NA*	182	177	269	873	NA*	1390

Notes:

- (1) Standards based on Chromium, hexavalent.
- (2) Standards based on Xylene (mixed).
- (3) Groundwater standards only provided for those metals for which SPLP analyses were completed
- (4) All units in ppm
- (5) 'ND' = Not Detected

- (6) Results exceeding Groundwater A Standard's are RED
- (7) Results exceeding residential SCOs are RED
- (8) Results exceeding commercial SCOs are BLUE
- (9) Results exceeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID				SB-19A	SB-19BO	SB-19C	SB-21A	SB-21BO	SB-21C	SB-24A	SB-24A DUP	SB-24BO	SB-24C	SB-6A	SB-6BO	SB-6C
	Depth				0-2"	2"-2'	25'-30'	0-2"	2-2	25'-30'	0-2"	0-2"	2"-2'	29'-30'	0-2"	2"-2'	25'-30'
	Sample Date				7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
Contaminants	Part 703 Groundwater A Standard (2)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial													
Metals																	
Aluminum					12600	12000	7950	12600	8240	4220	11800	11500	14000	6900	11900	9850	7040
Antimony					3.2 J	3.5 J	ND	5.7	1.3 J	2.6 J	ND	ND	ND	ND	ND	ND	ND
Arsenic		16	16	16	17.4	19	4.6	8	18.8	14.6	16.7	13.7	11.6	5	12.8	9.3	3.3
Barium		400	400	10000	395	360	41.8	252	206	59.8	166	148	105	43.6	273	123	36.1
Beryllium		72	590	2700	1.6	0.57	0.13 J	0.51	0.39	ND	ND	ND	ND	0.11 J	0.39	0.25 J	0.10 J
Cadmium		4.3	9.3	60	2.3	2.6	0.27	0.52	1.4	1.3	2	1.8	1.4	0.15	1.5	0.54	0.12 J
Calcium					6280	5270	2670	4640	3620	1660	19200	21200	23700	1190	8640	6470	4790
Chromium (1)		110	140	800	33	23.2	4.9	7.7	11	64.5	35.4	36.5	41.7	2.8	32.2	9.1	4.8
Cobalt					16.8	11.4	5.7	12.3	8.2	7.1	9.4	10.1	10.7	6.4	11.8	9.5	5.2
Copper		270	270	10000	327	361	21	48.2	163	53.8	91.5	78.7	68.6	17.8	129	65.2	8.5
Iron					59700	55000	17200	34000	30900	69600	40700	36300	37600	29800	39700	29200	15900
Lead		400	1000	3900	1330	1340	39.7	175	1670	740	477	407	254	48.2	637	222	11.3
Magnesium					3610	2720	3240	5190	2060	1620	4360	4880	4700	3750	5070	4470	3280
Manganese		2000	10000	10000	613	499	270	1010	496	268	472	471	565	392	745	719	162
Nickel		310	310	10000	79.8	38.2	13.9	25.2	24.2	19.3	39.8	41.3	37.2	15.1	33	23.2	12.5
Potassium					2310	2120	1050	1750	1740	1130	2310	2070	1890	1180	2490	1870	1230
Selenium		180	1500	6800	2.8	2.3	0.52 J	0.52 J	2.7	3.9	3.7	3.4	1.1	0.28 J	0.88	0.61	ND
Silver		180	1500	6800	7	4.6	1.6	2.3	2.8	4.9	3.9	3.5	3.1	2.7	3.9	2.7	1.6
Sodium					317	258 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium					0.67	0.55 J	ND	1.2	0.72	0.34 J	ND	ND	ND	0.29 J	0.36 J	0.6	D
Vanadium					31	54.7	13.6	19.9	30.9	13.9	91.4	91.7	67.6	11.3	38.6	23.8	12.9
Zinc		10000	10000	10000	1090	922	96.1	368	364	478	432	403	313	43.1	470	174	40.3
Mercury		0.81	2.8	5.7	5.9	14.1	0.024 J	0.36	0.9	0.34	0.44	0.4	0.24	0.46	4.5	1.6	ND
SVOCs																	
1,2,4-Trichlorobenzene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4,5-Trichlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4,6-Trichlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dichlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dimethylphenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrotoluene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2,6-Dinitrotoluene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Chloronaphthalene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Chlorophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylnaphthalene					0.134	0.118	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitrophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
3,3'-Dichlorobenzidine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
3-Nitroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Bromophenylphenyl ether					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloro-3-methylphenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Chlorophenylphenyl ether					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitroaniline					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitrophenol					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthene		100	500	1000	0.0804	0.202	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthylene		100	500	1000	0.0936	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Acetophenone					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Anthracene		100	500	1000	0.267	0.623	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Atrazine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzaldehyde					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(a)anthracene		1	5.6	11	1.43	2.21	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1.1	1.47	2.09	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(b)fluoranthene		1	5.6	11	2.3	3.22	0.0881	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	500	1000	0.661	0.77	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(k)fluoranthene		3.9	56	110	0.861	1.84	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Biphenyl (Diphenyl)					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Butylbenzylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB-19A	SB-19BO	SB-19C	SB-21A	SB-21BO	SB-21C	SB-24A	SB-24A DUP	SB-24BO	SB-24C	SB-6A	SB-6BO	SB-6C
	Depth				0-2"	2"-2'	25'-30'	0-2"	2-2	25'-30'	0-2"	0-2"	2"-2'	29'-30'	0-2"	2"-2'	25'-30'
	Sample Date				7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
Contaminants	Part 703 Groundwater A Standard (2)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial													
Caprolactam					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Carbazole					0.0992	0.254	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Chrysene		3.9	56	110	1.68	2.39	0.082	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-butylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-octylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.56	1.1	0.206	0.216	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Dibenzofuran		59	350	1000	ND	0.156	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Diethylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Dimethylphthalate					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Fluoranthene		100	500	1000	2.29	3.7	0.118	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Fluorene		100	500	1000	0.0824	0.24	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloro-1,3-butadiene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorobenzene		1.2	6	12	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorocyclopentadiene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloroethane					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	0.741	0.735	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Isophorone					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitroso-di-n-propylamine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitrosodiphenylamine					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Naphthalene		100	500	1000	0.228	0.144	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Nitrobenzene					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Pentachlorophenol		6.7	6.7	55	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Phenanthrene		100	500	1000	1.29	3.14	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Phenol		100	500	1000	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
Pyrene		100	500	1000	2.84	4.34	0.107	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethoxy)methane					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethyl) ether					ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate					0.118	0.145	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*

Notes:

- (1) Standards based on Chromium, hexavalent.
- (2) Groundwater standards only provided for those metals for which SPLP analyses were completed
- (3) All results in ppm
- (4) 'ND' = Not Detected
- (5) Results exceeding Groundwater A Standard's are RED
- (6) Results exceeding residential SCOs are RED
- (7) Results exceeding commercial SCOs are BLUE
- (8) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID				SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
	Depth				2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
	Sample Date				7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial										
Metals														
Aluminum					12600	7020	8390	4390	5780	7220	9400	11000	9970	5160
Antimony					ND	ND	4.8	4.7	0.95 J	3.9 J	ND	ND	ND	ND
Arsenic		16	16	16	11	4.1	14.6	45.1	7.5	16	4.5	9.4	10.2	56.6
Barium		400	400	10000	414	48.3	295	231	75	153	97.9	197	261	24.7
Beryllium		72	590	2700	0.48	0.12 J	0.47	0.042 J	0.19 J	0.76	0.20 J	0.29 J	0.32	ND
Cadmium		4.3	9.3	60	0.74	0.15	0.97	0.58	0.2	0.43	0.25	1.2	1.5	1.3
Calcium					9530	1420	3680	2220	4960	1880	2600	16200	24000	1250
Chromium (1)		110	140	800	9.9	3.8	15	17.8	8.9	8.6	5.7	25.6	66.8	77.6
Cobalt					12.3	5.8	9.7	5.9	9.6	9.1	10.1	11.3	10.8	30.9
Copper		270	270	10000	51	12.1	146	85.1	59.5	91.2	14.7	81.9	107	49.7
Iron					39400	16800	31300	44900	14600	27800	28000	35700	30800	102000
Lead		400	1000	3900	240	16.9	1090	524	197	1010	29.3	454	751	6.8
Magnesium					6930	3330	1820	957	2170	359	5840	6570	5890	2360
Manganese		2000	10000	10000	698	545	357	152	156	212	890	578	583	290
Nickel		310	310	10000	30.1	13.7	26.6	18.8	16	28	17.7	54.4	50.4	72.9
Potassium					1980	973	1740	2460	1090	1310	1270	2170	2100	1020
Selenium		180	1500	6800	0.76	0.45 J	2.3	11	1	1.9	0.46 J	1.2	1.5	1.9
Silver		180	1500	6800	3.1	1.6	3	3.6	1.4	2.5	1.9	2.7	2.8	7.5
Sodium					ND	ND	ND	ND	ND	ND	ND	ND	495	ND
Thallium					0.68	0.55 J	0.43 J	7.5	ND	ND	0.91	0.49 J	0.54 J	ND
Vanadium					24.6	12.8	37.7	29.9	20.5	26.3	13.8	102	99.8	8.9
Zinc		10000	10000	10000	311	50	576	254	124	224	51.8	324	404	33.9
Mercury		0.81	2.8	5.7	0.51	ND	1.4	1.6	0.18	0.53	ND	0.67	0.73	0.016 J
Metals, SPLP														
Arsenic	0.025				ND	ND	ND	0.0098 J	ND	NA*	NA*	ND	ND	ND
Barium	1				0.010 J	0.015 J	0.0075 J	0.0096 J	0.011 J	NA*	NA*	0.0093 J	0.031 J	0.020 J
Cadmium	0.005				ND	ND	0.00020 J	0.000081 J	ND	NA*	NA*	ND	ND	0.00013 J
Chromium	0.05				0.0031 J	0.0044 J	0.0020 J	0.0030 J	0.0018 J	NA*	NA*	0.0040 J	0.0098 J	0.0038 J
Lead	0.025				0.0086	0.019	0.038	0.031	0.0039 J	NA*	NA*	0.019 J	0.098	0.033
Selenium	0.01				ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Silver	0.05				ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Mercury	0.0007				ND	ND	ND	0.0021	ND	NA*	NA*	ND	0.00025	ND
Pesticides														
4,4'-DDD		13	92	180	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4,4'-DDE		8.9	62	120	ND	ND	ND	ND	ND	NA*	NA*	0.0062	ND	ND
4,4'-DDT		7.9	47	94	ND	ND	ND	ND	ND	NA*	NA*	0.0307	0.0165	ND
Aldrin		0.097	0.68	1.4	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dieldrin		0.2	1.4	2.8	ND	ND	ND	0.0091	ND	NA*	NA*	0.0048	ND	ND
Endosulfan I		24	200	920	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Endosulfan II		24	200	920	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Endosulfan sulfate		24	200	920	ND	ND	ND	ND	ND	NA*	NA*	ND	0.0149	ND
Endrin		11	89	410	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Endrin aldehyde					ND	ND	ND	ND	ND	NA*	NA*	ND	0.0075	ND
Endrin ketone					ND	ND	ND	0.0091	ND	NA*	NA*	ND	0.0237	ND
Heptachlor		2.1	15	29	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Heptachlor epoxide					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Methoxychlor					ND	ND	ND	ND	ND	NA*	NA*	ND	0.118	ND
Toxaphene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
alpha-BHC		0.48	3.4	6.8	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
	Depth				2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
	Sample Date				7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial										
alpha-Chlordane		4.2	24	47	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
beta-BHC		0.36	3	14	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
delta-BHC		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
gamma-BHC (Lindane)		1.3	9.2	23	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
gamma-Chlordane					ND	ND	ND	ND	ND	NA*	NA*	ND	0.0046	ND
PCBs														
PCB-1016 (Aroclor 1016)		1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1221 (Aroclor 1221)		1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1232 (Aroclor 1232)		1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1242 (Aroclor 1242)		1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1248 (Aroclor 1248)		1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
PCB-1254 (Aroclor 1254)		1	1	25	ND	ND	ND	ND	ND	NA*	NA*	ND	0.059	ND
PCB-1260 (Aroclor 1260)		1	1	25	ND	ND	ND	ND	ND	NA*	NA*	0.0982	0.0746	ND
VOCs														
1,1,1-Trichloroethane		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1,2,2-Tetrachloroethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1,2-Trichloroethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1,2-Trichlorotrifluoroethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1-Dichloroethane		26	240	480	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,1-Dichloroethene		100	500	10000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2,4-Trichlorobenzene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dibromo-3-chloropropane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dibromoethane (EDB)					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dichlorobenzene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dichloroethane		3.1	30	60	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,2-Dichloropropane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,3-Dichlorobenzene		49	280	560	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
1,4-Dichlorobenzene		13	130	250	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Butanone (MEK)		100	500	1000	ND	ND	ND	0.143 J	ND	NA*	NA*	ND	ND	ND
2-Hexanone					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Methyl-2-pentanone (MIBK)					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Acetone		100	500	1000	0.0064	0.0229	ND	ND	0.0393	NA*	NA*	0.0025 J	ND	ND
Benzene		4.8	44	89	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Bromodichloromethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Bromoform					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Bromomethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Carbon disulfide					ND	ND	ND	ND	0.0033	NA*	NA*	ND	ND	ND
Carbon tetrachloride		2.4	22	44	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chlorobenzene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chloroethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chloroform		49	350	700	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Chloromethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Cyclohexane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dibromochloromethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dichlorodifluoromethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Ethylbenzene		41	390	780	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Isopropylbenzene (Cumene)					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Methyl acetate					ND	ND	ND	0.228	ND	NA*	NA*	ND	ND	ND
Methyl-tert-butyl ether		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Methylcyclohexane					ND	ND	ND	0.111 J	ND	NA*	NA*	ND	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
	Depth				2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
	Sample Date				7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial										
Methylene Chloride		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.0016 J	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
	Depth				2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
	Sample Date				7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial										
Styrene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Tetrachloroethene		19	150	300	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Toluene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Trichloroethene		21	200	400	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Trichlorofluoromethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Vinyl chloride		0.9	13	27	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Xylene (Total) (2)		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
cis-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
cis-1,3-Dichloropropene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
trans-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
SVOCs														
1,2,4-Trichlorobenzene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,2'-Oxybis(1-chloropropane)					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4,5-Trichlorophenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4,6-Trichlorophenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dichlorophenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dimethylphenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dinitrophenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,4-Dinitrotoluene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2,6-Dinitrotoluene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Chloronaphthalene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Chlorophenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Methylnaphthalene					ND	ND	0.304	0.118	ND	NA*	NA*	0.129	0.407	ND
2-Methylphenol(o-Cresol)		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Nitroaniline					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
2-Nitrophenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
3&4-Methylphenol(m&p Cresol)		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	0.0809	ND
3,3'-Dichlorobenzidine					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
3-Nitroaniline					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4,6-Dinitro-2-methylphenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Bromophenylphenyl ether					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Chloro-3-methylphenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Chloroaniline					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Chlorophenylphenyl ether					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Nitroaniline					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
4-Nitrophenol					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Acenaphthene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.12	0.529	ND
Acenaphthylene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.111	0.899	ND
Acetophenone					ND	ND	ND	0.109	ND	NA*	NA*	ND	ND	ND
Anthracene		100	500	1000	0.0873	ND	0.116	ND	0.12	NA*	NA*	0.317	2.32	ND
Atrazine					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Benzaldehyde					ND	ND	ND	0.372	ND	NA*	NA*	0.251	ND	ND
Benzo(a)anthracene		1	5.6	11	0.381	ND	0.416	ND	0.311	NA*	NA*	0.856	5.84	ND
Benzo(a)pyrene		1	1	1.1	0.409	ND	0.462	0.138	0.265	NA*	NA*	0.834	6.09	ND
Benzo(b)fluoranthene		1	5.6	11	0.581	0.0575 J	0.719	0.347	0.281	NA*	NA*	1.17	9.21	ND
Benzo(g,h,i)perylene		100	500	1000	0.258	ND	0.221	0.144	0.155	NA*	NA*	0.423	3.99	ND
Benzo(k)fluoranthene		3.9	56	110	0.301	ND	0.291	ND	0.125	NA*	NA*	0.519	6.31	ND
Biphenyl (Diphenyl)					ND	ND	ND	ND	ND	NA*	NA*	ND	0.149	ND
Butylbenzylphthalate					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Caprolactam					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				SB-16BO	SB-16C	SB-17A	SB-17BO	SB-17C	SB-25BO	SB-25C	SB-26A MS/MSD	SB-26BO	SB-26C
	Depth				2"-2'	28'-30'	0-2"	2"-2'	28'-30'	2"-2'	25'-30'	0-2"	2"-2'	28'-30'
	Sample Date				7/25/2017	7/25/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial										
Carbazole					ND	ND	ND	ND	ND	NA*	NA*	0.183	1.3	ND
Chrysene		3.9	56	110	0.413	ND	0.547	0.825	0.28	NA*	NA*	0.977	7.21	ND
Di-n-butylphthalate					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Di-n-octylphthalate					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dibenz(a,h)anthracene		0.33	0.56	1.1	ND	ND	ND	ND	ND	NA*	NA*	0.134	1.04	ND
Dibenzofuran		59	350	1000	ND	ND	ND	ND	ND	NA*	NA*	0.0951	0.75	ND
Diethylphthalate					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Dimethylphthalate					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Fluoranthene		100	500	1000	0.65	0.128	1.1	0.373	0.753	NA*	NA*	1.79	14	0.141
Fluorene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	0.11	0.938	ND
Hexachloro-1,3-butadiene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Hexachlorobenzene		1.2	6	12	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Hexachlorocyclopentadiene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Hexachloroethane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	0.265	ND	0.199	0.0882	0.134	NA*	NA*	0.361	3.84	ND
Isophorone					0.276	ND	0.755	0.581	ND	NA*	NA*	ND	ND	ND
N-Nitroso-di-n-propylamine					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
N-Nitrosodiphenylamine					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Naphthalene		100	500	1000	ND	ND	0.225	0.0924	ND	NA*	NA*	0.141	0.983	ND
Nitrobenzene					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Pentachlorophenol		6.7	6.7	55	ND	ND	D	ND	ND	NA*	NA*	ND	ND	ND
Phenanthrene		100	500	1000	0.379	0.104	0.471	0.208	0.337	NA*	NA*	1.42	11.5	0.155
Phenol		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
Pyrene		100	500	1000	0.698	0.0952	0.748	0.262	0.49	NA*	NA*	1.61	13	0.105
bis(2-Chloroethoxy)methane					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
bis(2-Chloroethyl) ether					ND	ND	ND	ND	ND	NA*	NA*	ND	ND	ND
bis(2-Ethylhexyl)phthalate					ND	ND	0.0883 J	0.116	ND	NA*	NA*	0.122	0.122	ND
TPH														
Total Petroleum Hydrocarbons					ND	232	252	284	221	NA*	NA*	253	596	403

- Notes:
- (1) Standards based on Chromium, hexavalent.
 - (2) Standards based on Xylene (mixed).
 - (3) Groundwater standards only provided for those metals for which SPLP analyses were completed
 - (4) 'ND' = Not Detected
 - (5) All results in ppm
 - (6) Results exceeding Groundwater A Standard's are RED
 - (7) Results exceeding residential SCOs are RED
 - (8) Results exceeding commercial SCOs are BLUE
 - (9) Results exceeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID				SB-11B DUP	SB-11A	SB-11B	SB-11C	SB-11D	SB-12 BO	SB-12C	SB-12D	SB-22A	SB-22B	SB-22C	SB-22D	SB-30 B	SB-30 C	SB-30 D	SB-8A	SB-8B	SB-8C	SB-9B	SB-9C	SB-9D
	Depth				2'-2'	0-2"	2'-2'	30'-32'	30'-36'	2'-2'	25'-30'	8'-10'	0-2"	2'-2'	25'-30'	25'-27'	2'-2'	25'-30'	18'-20'	0-2"	2'-2'	28'-30'	2'-2'	25'-30'	7'-8'
	Sample Date				7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/25/2017	7/25/2017	7/25/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																					
Metals																									
Aluminum					10400	10600	8670	9620	NA*	7440	9370	NA*	7630	8250	8270	NA*	7760	5480	NA*	27100	12000	6680	9850	7010	NA*
Antimony					ND	0.58 J	ND	ND	NA*	3.8 J	ND	NA*	3.3	ND	ND	NA*	16.2	ND	NA*	4	7.1	ND	ND	ND	NA*
Arsenic		16	16	16	10.6	8.1	12.5	6.5	NA*	16	6.9	NA*	29.9	19.4	5.4	NA*	11.9	4.1	NA*	13.2	18.3	8.4	8.6	3.4	NA*
Barium		400	400	10000	158	133	138	73.9	NA*	309	45.5	NA*	315	263	45.5	NA*	242	22.6	NA*	409	368	101	145	30.4	NA*
Beryllium		72	590	2700	0.37	0.22 J	0.32	0.36	NA*	0.17 J	0.17 J	NA*	0.18 J	0.26 J	0.13 J	NA*	0.61	ND	NA*	0.72	1.4	ND	0.54	0.080 J	NA*
Cadmium		4.3	9.3	60	1.1	1.3	1.1	0.15 J	NA*	1.9	0.17 J	NA*	3	2.3	0.16	NA*	1.2	0.051 J	NA*	1.6	1.8	0.38	0.39	0.070 J	NA*
Calcium					18600	21600	13700	3970	NA*	36300	4500	NA*	6970	8360	1390	NA*	3160	1670	NA*	10100	12200	3100	2560	1300	NA*
Chromium (1)		110	140	800	20.5	25.5	18.2	10.7	NA*	23.7	11	NA*	36.1	52.4	9.2	NA*	18.1	5.4	NA*	65.6	51.7	11	12.8	6.1	NA*
Cobalt					9.1	8.9	8.9	7.6	NA*	7.8	8.6	NA*	12.1	11.5	6.2	NA*	8.2	4.4	NA*	15.8	14.2	6.4	8.3	4.4	NA*
Copper		270	270	10000	84.6	64.9	186	18.2	NA*	1740	17.3	NA*	216	226	153	NA*	150	5.1	NA*	143	282	35.6	294	6.4	NA*
Iron					26800	21400	27500	19100	NA*	44900	20600	NA*	108000	62100	19600	NA*	24200	12000	NA*	54800	41900	27300	22700	14100	NA*
Lead		400	1000	3900	369	456	469	70.7	NA*	2200	7.7	NA*	1150	963	28.1	NA*	1060	3.6	NA*	1260	1230	481	116	3.8	NA*
Magnesium					4720	5630	3250	3650	NA*	1650	4770	NA*	2410	2770	3790	NA*	2020	2470	NA*	2930	3630	2780	3100	3300	NA*
Manganese		2000	10000	10000	459	567	478	249	NA*	366	193	NA*	613	566	199	NA*	349	109	NA*	1480	580	231	326	108	NA*
Nickel		310	310	10000	25.4	23.5	21.2	15.4	NA*	23.2	18	NA*	44.6	30.1	15.2	NA*	29.2	9	NA*	38.5	63.5	13.8	23.3	9.9	NA*
Potassium					1700	2000	1570	1370	NA*	2340	1380	NA*	1870	1920	1100	NA*	1560	861	NA*	4080	2370	1090	1500	874	NA*
Selenium		180	1500	6800	0.76	0.59 J	0.46 J	0.40 J	NA*	1.8	1	NA*	1.7	1.6	0.50 J	NA*	1	ND	NA*	1.6	1.8	1.4	0.83	0.42 J	NA*
Silver		180	1500	6800	ND	0.19 J	0.25 J	ND	NA*	0.54 J	ND	NA*	15.9	ND	0.16 J	NA*	0.45 J	ND	NA*	0.12 J	0.49 J	ND	ND	ND	NA*
Sodium					ND	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	ND	ND	NA*
Thallium					ND	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	NA*	ND	ND	NA*	ND	ND	ND	ND	ND	NA*
Vanadium					27.6	33.2	25	20.7	NA*	22.9	18.7	NA*	22.3	29.6	16.5	NA*	25.6	10.6	NA*	54.6	31.3	12.1	26.5	10.3	NA*
Zinc		10000	10000	10000	315	385	310	59.9	NA*	873	47.9	NA*	615	823	78.6	NA*	432	29.3	NA*	645	897	193	177	32.5	NA*
Mercury		0.81	2.8	5.7	0.84	0.52	1.1	ND	NA*	19.3	0.048	NA*	4.6	2	0.059	NA*	1.1	ND	NA*	1.6	8.5	0.51	1	ND	NA*
Metals, SPLP																									
Arsenic		0.025			ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Barium		1			0.014 J	0.012 J	0.016 J	0.0089 J	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.012 J	0.022 J	0.024 J	NA*	NA*	NA*
Cadmium		0.005			0.00021 J	0.00014 J	0.00021 J	0.00013 J	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.00024 J	0.00019 J	0.000086 J	NA*	NA*	NA*
Chromium		0.05			0.0053 J	0.0035 J	0.0046 J	0.0028 J	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.0049 J	0.0079 J	0.0043 J	NA*	NA*	NA*
Lead		0.025			0.061	0.022	0.068	0.0058	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.044	0.064	0.062	NA*	NA*	NA*
Selenium		0.01			ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Silver		0.05			ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Mercury		0.0007			ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.00049	0.00022	NA*	NA*	NA*
Pesticides																									
4,4'-DDD		13	92	180	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4,4'-DDE		8.9	62	120	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
4,4'-DDT		7.9	47	94	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Aldrin		0.097	0.68	1.4	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Dieldrin		0.2	1.4	2.8	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endosulfan I		24	200	920	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endosulfan II		24	200	920	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endosulfan sulfate		24	200	920	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	NA*	NA*	NA*
Endrin		11	89	410	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA						

TABLE 13. Soil Analytical Results

	Sample ID				SB-11B DUP	SB-11A	SB-11B	SB-11C	SB-11D	SB-12 BO	SB-12C	SB-12D	SB-22A	SB-22B	SB-22C	SB-22D	SB-30 B	SB-30 C	SB-30 D	SB-8A	SB-8B	SB-8C	SB-9B	SB-9C	SB-9D
	Depth				2'-2'	0-2"	2'-2'	30'-32'	30'-36'	2'-2'	25'-30'	8'-10'	0-2"	2'-2'	25'-30'	25'-27'	2'-2'	25'-30'	18'-20'	0-2"	2'-2"	28'-30'	2'-2'	25'-30'	7'-8'
	Sample Date				7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/25/2017	7/25/2017	7/25/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																					
Methylene Chloride		100	500	1000	0.0019 J	0.0015 J	0.0018 J	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	0.0015 J	0.0019 J	ND	NA*	NA*	0.0014 J
Styrene					ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Tetrachloroethene		19	150	300	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Toluene		100	500	1000	ND	ND	ND	ND	0.0014 J	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	0.0498 J	ND	ND	ND	NA*	NA*	0.0012 J
Trichloroethene		21	200	400	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Trichlorofluoromethane					ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Vinyl chloride		0.9	13	27	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
Xylene (Total) (2)		100	500	1000	ND	ND	ND	ND	0.0078	NA*	NA*	ND	NA*	NA*	NA*	0.0643 J	NA*	NA*	0.641	ND	ND	0.147 J	NA*	NA*	0.0019 J
cis-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
cis-1,3-Dichloropropene					ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
trans-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	NA*	NA*	ND	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	ND	ND	NA*	NA*	ND
SVOCS																									
1,2,4-Trichlorobenzene					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,4,5-Trichlorophenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,4,6-Trichlorophenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,4-Dichlorophenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,4-Dimethylphenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,4-Dinitrophenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,4-Dinitrotoluene					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2,6-Dinitrotoluene					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2-Chloronaphthalene					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2-Chlorophenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2-Methylnaphthalene					0.135	0.0821	ND	0.158	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.0939	ND	ND	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		100	500	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2-Nitroaniline					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
2-Nitrophenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		100	500	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
3,3'-Dichlorobenzidine					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
3-Nitroaniline					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
4-Bromophenyphenyl ether					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
4-Chloro-3-methylphenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
4-Chloroaniline					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
4-Chlorophenyphenyl ether					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
4-Nitroaniline					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
4-Nitrophenol					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Acenaphthene		100	500	1000	ND	ND	ND	0.913	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.27	ND	ND	NA*	NA*	NA*
Acenaphthylene		100	500	1000	0.0996	0.0891	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Acetophenone					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Anthracene		100	500	1000	0.243	0.202	0.129	0.714	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.115	0.587	ND	ND	NA*	NA*	NA*
Atrazine					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Benzaldehyde					ND	0.152	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Benzo(a)anthracene		1	5.6	11	0.831	1.43	0.595	0.221	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.64	1.48	ND	ND	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1.1		1.1	0.689	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.723	1.33	ND	ND	NA*	NA*	NA*
Benzo(b)fluoranthene		1	5.6	11	1.7	2.71	0.964	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	1.02	1.81	ND	ND	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	500	1000	0.517	0.728	0.434	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.334	0.549	ND	ND	NA*	NA*	NA*
Benzo(k)fluoranthene		3.9	56	110	0.755	1.33	0.396	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.476	0.942	ND	ND	NA*	NA*	NA*
Biphenyl (Diphenyl)					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Butylbenzylphthalate					ND	0.16	0.109	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Caprolactam					ND	ND	0.306	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Carbazole					0.158	0.152	0.0976	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.292	ND	ND	NA*	NA*	NA*
Chrysene		3.9	56	110	1.26	1.68	0.72	0.65	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.733	1.59	ND	ND	NA*	NA*	NA*
Di-n-butylphthalate					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Di-n-octylphthalate					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.56	1.1	0.144	0.23	0.111	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.112	0.163	ND	ND	NA*	NA*	NA*
Dibenzofuran		59	350	1000	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.253	ND	ND	NA*	NA*	NA*
Diethylphthalate					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Dimethylphthalate					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Fluoranthene		100	500	1000	2.24	2.59	1.37	0.395	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	1.45	3.54	ND	ND	NA*	NA*	NA*
Fluorene		100	500	1000	ND	ND	ND	1.23	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	0.295	ND	ND	NA*	NA*	NA*
Hexachloro-1,3-butadiene					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Hexachlorobenzene		1.2	6	12	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Hexachlorocyclopentadiene					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Hexachloroethane					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	0.48	0.683	0.446	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	0.4	0.64	ND	ND	NA*	NA*	NA*
Isophorone					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
N-Nitroso-di-n-propylamine					ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	NA*	ND	ND	ND	ND	NA*	NA*	NA*
N-Nitrosodiphenylamine					ND	ND	ND	ND	NA*	NA*															

Notes:

- (1) Standards based on Chromium, hexavalent.
- (2) Standards based on Xylene (mixed).
- (3) Groundwater standards only provided for those metals for which SPLP analyses were completed.
- (4) All results in ppm
- (5) ND* = Not Detected
- (6) Results exceeding Groundwater A Standard's are **RED**
- (7) Results exceeding residential SCOs are **RED**
- (8) Results exceeding commercial SCOs are **BLUE**
- (9) Results exceeding industrial SCOs are **GREEN**

TABLE 13. Soil Analytical Results

	Sample ID				SB-1BO	SB-1C	SB-20A	SB-20BO	SB-20C	SB-23BO	SB-23C	SB-33BO	SB-4BO	SB-4C	SB-5A	SB-5BO	SB-5C	SB-7BO	SB-7BO DUP	SB-7C
	Depth				2"-2'	25'-30'	0-2"	2"-3'	25'-30'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	0-2"	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'
	Sample Date				7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/26/2017	7/26/2017	7/26/2017	7/27/2017	7/27/2017	7/27/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																
Metals																				
Aluminum					14100	6070	12400	11300	6850	12800	8680	13600	10500	8310	8760	8530	6170	11600	12400	7590
Antimony					ND	ND	ND	ND	ND	ND	ND	11.3	ND	ND	ND	505	ND	ND	0.26 J	ND
Arsenic		16	16	16	13.8	6.1	19.1	19.7	5.7	13.9	5.6	16	17.9	7.7	12.1	42.6	6.5	23.5	19.2	4.6
Barium		400	400	10000	196	26.2	257	300	49	192	45.7	274	476	43.2	182	1740	60.1	308	408	31.4
Beryllium		72	590	2700	0.34	0.12 J	0.59	0.67	0.24 J	0.29	ND	0.86	0.55	0.27 J	0.44	ND	0.21 J	0.39	0.24 J	0.22 J
Cadmium		4.3	9.3	60	0.65	0.057 J	1.1	1.3	0.14 J	0.9	0.21	0.5	1.9	0.26	0.8	6.6	0.17	1.6	1.1	0.13 J
Calcium					77800	2610	3490	6340	6230	36600	14600	122000	29000	6170	2960	20900	3100	15700	35200	5440
Chromium (1)		110	140	800	12.2	5.4	20	18.6	7.4	13	9.5	4.9	26.2	11.2	17.2	28.5	6.9	20.5	13	7.8
Cobalt					8.3	5.8	13.9	10.1	6.8	8.8	5	5.4	9.9	7.5	9.8	9.6	5.6	10.2	8.2	6.7
Copper		270	270	10000	37.5	10.4	242	185	30	63.7	13.5	1990	302	18.1	98	556	32.4	357	724	9.9
Iron					25700	15400	42800	33900	14800	34000	21000	28800	36400	16100	34500	109000	16000	60100	36300	16300
Lead		400	1000	3900	476	15.7	746	1310	124	332	50.3	673	1290	26.9	521	6520	158	1820	867	16.8
Magnesium					8880	3120	4630	3090	3670	8450	3300	7140	3990	4900	3220	2590	2680	4360	4790	4450
Manganese		2000	10000	10000	605	298	830	476	322	943	585	2190	1930	285	531	1500	381	719	964	423
Nickel		310	310	10000	18.7	11.9	49	24.1	13.2	41.1	10.5	9.6	27	14.5	24.1	33	12.7	25	16.8	14.6
Potassium					2340	1020	2360	2290	1100	2860	1260	2360	2620	1350	1610	3960	948	2720	2530	1260
Selenium		180	1500	6800	0.35 J	0.35 J	1.6	2.2	0.51 J	1.1	ND	ND	2.6	0.36 J	1.2	7	0.38 J	2.5	2.1	ND
Silver		180	1500	6800	1.3	0.91	2.6	2.3	0.88	1.8	1.2	1.5	3.1	0.99	2.2	5.3	1	3.7	2.4	0.96
Sodium					781	ND	ND	ND	ND	277	ND	986	246 J	ND	ND	ND	ND	ND	569	ND
Thallium					ND	ND	0.30 J	ND	ND	ND	ND	ND	0.52 J	ND	ND	0.68	ND	0.29 J	ND	ND
Vanadium					33	12.3	34.5	32.1	13.9	28.5	17.8	16.7	24.1	15.2	18.5	20.8	12.7	23.9	22.6	13
Zinc		10000	10000	10000	267	39.5	569	612	79	274	45	104	948	86.1	384	2990	92.7	518	540	61.9
Mercury		0.81	2.8	5.7	0.89	0.096	6.7	25.1	0.23	0.57	0.031 J	1	2.3	0.95	2.1	2.1	0.32	5	39.4	0.033 J
Metals, SPLP																				
Arsenic	0.025				NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Barium	1				NA*	NA*	NA*	NA*	NA*	0.016 J	NA*	NA*	0.022 J	0.017 J	NA*	NA*	NA*	NA*	NA*	NA*
Cadmium	0.005				NA*	NA*	NA*	NA*	NA*	0.00010 J	NA*	NA*	0.00027 J	0.00020 J	NA*	NA*	NA*	NA*	NA*	NA*
Chromium	0.05				NA*	NA*	NA*	NA*	NA*	0.0053 J	NA*	NA*	0.027	0.0067 J	NA*	NA*	NA*	NA*	NA*	NA*
Lead	0.025				NA*	NA*	NA*	NA*	NA*	0.017	NA*	NA*	0.12	0.035	NA*	NA*	NA*	NA*	NA*	NA*
Selenium	0.01				NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Silver	0.05				NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Mercury	0.0007				NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pesticides																				
4,4'-DDD		13	92	180	NA*	NA*	NA*	NA*	NA*	0.004	NA*	NA*	0.0117	0.0062	NA*	NA*	NA*	NA*	NA*	NA*
4,4'-DDE		8.9	62	120	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4,4'-DDT		7.9	47	94	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Aldrin		0.097	0.68	1.4	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dieldrin		0.2	1.4	2.8	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endosulfan I		24	200	920	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endosulfan II		24	200	920	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endosulfan sulfate		24	200	920	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endrin		11	89	410	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endrin aldehyde					NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	0.0041	ND	NA*	NA*	NA*	NA*	NA*	NA*
Endrin ketone					NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	0.008	ND	NA*	NA*	NA*	NA*	NA*	NA*
Heptachlor		2.1	15	29	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Heptachlor epoxide					NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methoxychlor					NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Toxaphene					NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
alpha-BHC		0.48	3.4	6.8	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
alpha-Chlordane		4.2	24	47	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
beta-BHC		0.36	3	14	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
delta-BHC		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
gamma-BHC (Lindane)		1.3	9.2	23	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
gamma-Chlordane					NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	0.0037	NA*	NA*	NA*	NA*	NA*	NA*
PCBs																				
PCB-1016 (Aroclor 1016)		1	1	25	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1221 (Aroclor 1221)		1	1	25	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1232 (Aroclor 1232)		1	1	25	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1242 (Aroclor 1242)		1	1	25	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1248 (Aroclor 1248)		1	1	25	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1254 (Aroclor 1254)		1	1	25	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
PCB-1260 (Aroclor 1260)		1	1	25	NA*	NA*	NA*	NA*	NA*	ND	NA*	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB-1BO	SB-1C	SB-20A	SB-20BO	SB-20C	SB-23BO	SB-23C	SB-33BO	SB-4BO	SB-4C	SB-5A	SB-5BO	SB-5C	SB-7BO	SB-7BO DUP	SB-7C
	Depth				2"-2'	25'-30'	0-2"	2"-3'	25'-30'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	0-2"	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'
	Sample Date				7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/26/2017	7/26/2017	7/26/2017	7/27/2017	7/27/2017	7/27/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																
VOCs																				
1,1,1-Trichloroethane		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1,2,2-Tetrachloroethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichloroethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichlorotrifluoroethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethane		26	240	480	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethene		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2,4-Trichlorobenzene					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dibromo-3-chloropropane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dibromoethane (EDB)					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dichlorobenzene		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dichloroethane		3.1	30	60	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,2-Dichloropropane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,3-Dichlorobenzene		49	280	560	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
1,4-Dichlorobenzene		13	130	250	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Butanone (MEK)		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Hexanone					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Methyl-2-pentanone (MIBK)					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acetone		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzene		4.8	44	89	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Bromodichloromethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Bromoform					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Bromomethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Carbon disulfide					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Carbon tetrachloride		2.4	22	44	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chlorobenzene		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chloroethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chloroform		49	350	700	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chloromethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Cyclohexane					NA*	NA*	NA*	NA*	NA*	ND	9.74	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dibromochloromethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dichlorodifluoromethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Ethylbenzene		41	390	780	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Isopropylbenzene (Cumene)					NA*	NA*	NA*	NA*	NA*	ND	1.2	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methyl acetate					NA*	NA*	NA*	NA*	NA*	0.0082	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methyl-tert-butyl ether		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methylcyclohexane					NA*	NA*	NA*	NA*	NA*	ND	30.2	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Methylene Chloride		100	500	1000	NA*	NA*	NA*	NA*	NA*	0.0024 J	ND	NA*	0.0023 J	0.0014 J	NA*	NA*	NA*	NA*	NA*	NA*
Styrene					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Tetrachloroethene		19	150	300	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Toluene		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Trichloroethene		21	200	400	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Trichlorofluoromethane					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Vinyl chloride		0.9	13	27	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Xylene (Total) (2)		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
cis-1,2-Dichloroethene		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
cis-1,3-Dichloropropene					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
trans-1,2-Dichloroethene		100	500	1000	NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
trans-1,3-Dichloropropene					NA*	NA*	NA*	NA*	NA*	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB-1BO	SB-1C	SB-20A	SB-20BO	SB-20C	SB-23BO	SB-23C	SB-33BO	SB-4BO	SB-4C	SB-5A	SB-5BO	SB-5C	SB-7BO	SB-7BO DUP	SB-7C
	Depth				2"-2'	25'-30'	0-2"	2"-3'	25'-30'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	0-2"	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'
	Sample Date				7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/26/2017	7/26/2017	7/26/2017	7/27/2017	7/27/2017	7/27/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																
SVOCs																				
1,2,4-Trichlorobenzene					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,2'-Oxybis(1-chloropropane)					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4,5-Trichlorophenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4,6-Trichlorophenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dichlorophenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dimethylphenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dinitrophenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,4-Dinitrotoluene					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2,6-Dinitrotoluene					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Chloronaphthalene					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Chlorophenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Methylnaphthalene					NA*	NA*	0.109	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Methylphenol(o-Cresol)		100	500	1000	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Nitroaniline					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
2-Nitrophenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
3&4-Methylphenol(m&p Cresol)		100	500	1000	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
3,3'-Dichlorobenzidine					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
3-Nitroaniline					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4,6-Dinitro-2-methylphenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Bromophenylphenyl ether					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Chloro-3-methylphenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Chloroaniline					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Chlorophenylphenyl ether					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Nitroaniline					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
4-Nitrophenol					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Acenaphthene		100	500	1000	NA*	NA*	ND	0.12	ND	ND	2.7	NA*	0.183	0.129	NA*	NA*	NA*	NA*	NA*	ND
Acenaphthylene		100	500	1000	NA*	NA*	0.113	0.0973	ND	ND	ND	NA*	0.112	ND	NA*	NA*	NA*	NA*	NA*	ND
Acetophenone					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Anthracene		100	500	1000	NA*	NA*	0.195	0.369	ND	0.13	1.2	NA*	0.481	0.234	NA*	NA*	NA*	NA*	NA*	0.948
Atrazine					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Benzaldehyde					NA*	NA*	0.146	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Benzo(a)anthracene		1	5.6	11	NA*	NA*	0.499	1.76	0.147	0.573	ND	NA*	1.83	0.417	NA*	NA*	NA*	NA*	NA*	0.185
Benzo(a)pyrene		1	1	1.1	NA*	NA*	0.589	1.71	0.124	0.578	ND	NA*	1.9	0.324	NA*	NA*	NA*	NA*	NA*	ND
Benzo(b)fluoranthene		1	5.6	11	NA*	NA*	1.09	2.65	0.15	0.934	ND	NA*	2.77	0.422	NA*	NA*	NA*	NA*	NA*	ND
Benzo(g,h,i)perylene		100	500	1000	NA*	NA*	0.235	0.543	ND	0.156	ND	NA*	0.746	0.153	NA*	NA*	NA*	NA*	NA*	ND
Benzo(k)fluoranthene		3.9	56	110	NA*	NA*	0.485	1.34	0.07 J	0.495	ND	NA*	1.16	0.191	NA*	NA*	NA*	NA*	NA*	ND
Biphenyl (Diphenyl)					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Butylbenzylphthalate					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Caprolactam					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Carbazole					NA*	NA*	0.109	0.14	ND	ND	ND	NA*	0.148	ND	NA*	NA*	NA*	NA*	NA*	ND
Chrysene		3.9	56	110	NA*	NA*	0.773	1.78	0.145	0.593	ND	NA*	1.89	0.4	NA*	NA*	NA*	NA*	NA*	0.488
Di-n-butylphthalate					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Di-n-octylphthalate					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Dibenz(a,h)anthracene		0.33	0.56	1.1	NA*	NA*	ND	0.18	ND	ND	ND	NA*	0.194	ND	NA*	NA*	NA*	NA*	NA*	ND
Dibenzofuran		59	350	1000	NA*	NA*	ND	0.0911	ND	ND	ND	NA*	0.0849	ND	NA*	NA*	NA*	NA*	NA*	ND
Diethylphthalate					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Dimethylphthalate					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Fluoranthene		100	500	1000	NA*	NA*	1.38	3.27	0.294	0.973	0.797	NA*	3.26	0.969	NA*	NA*	NA*	NA*	NA*	0.615
Fluorene		100	500	1000	NA*	NA*	ND	0.121	ND	ND	4.18	NA*	0.2	0.135	NA*	NA*	NA*	NA*	NA*	3.93
Hexachloro-1,3-butadiene					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Hexachlorobenzene		1.2	6	12	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Hexachlorocyclopentadiene					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Hexachloroethane					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	NA*	NA*	0.197	0.674	ND	0.201	ND	NA*	0.795	0.163	NA*	NA*	NA*	NA*	NA*	ND
Isophorone					NA*	NA*	ND	ND	ND	0.158	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
N-Nitroso-di-n-propylamine					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
N-Nitrosodiphenylamine					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Naphthalene		100	500	1000	NA*	NA*	0.0953	0.104	ND	ND	0.938	NA*	0.0912	ND	NA*	NA*	NA*	NA*	NA*	ND
Nitrobenzene					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Pentachlorophenol		6.7	6.7	55	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Phenanthrene		100	500	1000	NA*	NA*	1.07	1.82	0.19	0.519	6.32	NA*	2.83	0.628	NA*	NA*	NA*	NA*	NA*	6.35
Phenol		100	500	1000	NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
Pyrene		100	500	1000	NA*	NA*	1.55	4.22	0.251	1.17	1.38	NA*	5.17	0.793	NA*	NA*	NA*	NA*	NA*	1.33
bis(2-Chloroethoxy)methane					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
bis(2-Chloroethyl) ether					NA*	NA*	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	ND
bis(2-Ethylhexyl)phthalate					NA*	NA*	0.119	0.0771	ND	ND	ND	NA*	0.0922	ND	NA*	NA*	NA*	NA*	NA*	ND
TPH																				
Total Petroleum Hydrocarbons					NA*	NA*	NA*	NA*	NA*	5630	7970	NA*	410	1090	NA*	NA*	NA*	NA*	NA*	NA*

Notes:

(1) Standards based on Chromium, hexavalent.

(6) Results exceeding Groundwater A Standard's are RED

TABLE 13. Soil Analytical Results

	Sample ID				SB-1BO	SB-1C	SB-20A	SB-20BO	SB-20C	SB-23BO	SB-23C	SB-33BO	SB-4BO	SB-4C	SB-5A	SB-5BO	SB-5C	SB-7BO	SB-7BO DUP	SB-7C
	Depth				2"-2'	25'-30'	0-2"	2"-3'	25'-30'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	0-2"	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'
	Sample Date				7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/26/2017	7/26/2017	7/26/2017	7/27/2017	7/27/2017	7/27/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																

(2) Standards based on Xylene (mixed).

(3) Groundwater standards only provided for those metals for which SPLP analyses were completed

(4) All results in ppm

(5) 'ND' = Not Detected

(7) Results exceeding residential SCOs are RED

(8) Results exceeding commercial SCOs are BLUE

(9) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID				SB-28 BO	SB-28 C	SB-29 BO	SB-29 BO DUP	SB-29 C	SB-3 BO	SB-36 BO	SB-36C	SB-3C	SB-3D	SB2 BO	SB2A	SB2C	SB33-C	SB33-D	SB4A
	Depth				2"-2'	28'-30'	2"-2'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	25'-30'	5'-10'	2"-2'	0-2"	25'-30'	25'-30'	25'-30'	0-2"
	Sample Date				7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/27/2017	7/27/2017	7/28/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																
Metals																				
Aluminum					12300	7250	9460	8440	8320	13000	17900	8670	6720	NA*	11500	10200	8020	9340	NA*	12900
Antimony					ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	ND
Arsenic		16	16	16	8.4	3	12.2	12.9	3.9	20.9	8.3	4.9	3.1	NA*	12.3	3.8	4.7	9.2	NA*	3.3
Barium		400	400	10000	169	40	154	109	49.6	198	211	52.5	32.8	NA*	423	186	52	64	NA*	362
Beryllium		72	590	2700	0.54	0.19 J	0.31	0.22 J	0.25 J	0.37	0.54	0.25 J	0.14 J	NA*	0.62	0.94	0.23 J	0.26 J	NA*	0.81
Cadmium		4.3	9.3	60	0.31	0.033 J	2.1	1.2	0.16 J	0.79	0.39	0.11 J	0.091 J	NA*	1.4	0.41	0.22	0.26	NA*	0.33
Calcium					7770	1450	5000	3790	5650	13800	30700	6420	3730	NA*	18600	29400	2670	5110	NA*	8120
Chromium (1)		110	140	800	8.2	3.8	6.2	3.5	7.9	11.3	7	7.8	5	NA*	15.7	9.9	6	7	NA*	11.7
Cobalt					10.1	5.3	8.8	8.7	6.2	10.1	10.4	8	5.4	NA*	9.1	11.1	6	8.7	NA*	12.7
Copper		270	270	10000	46.7	6.6	216	265	14.6	135	119	16.4	8.9	NA*	126	36.2	19.7	26.4	NA*	24.1
Iron					26000	13400	39200	47100	14300	29800	20100	18500	12900	NA*	25600	22500	17600	23100	NA*	27900
Lead		400	1000	3900	246	4.5	388	560	17.6	1080	575	16.5	10.5	NA*	1370	52.3	40.3	86.9	NA*	21.5
Magnesium					6030	2840	3910	3470	3940	5240	6230	4310	3460	NA*	4000	6220	3000	4400	NA*	6230
Manganese		2000	10000	10000	684	167	503	311	316	606	491	294	178	NA*	517	947	291	574	NA*	1020
Nickel		310	310	10000	23.4	11.4	21	24.7	13.5	23.8	20.4	15.7	11.5	NA*	47.3	27.5	13.1	17.2	NA*	25.7
Potassium					2440	1300	2150	1910	1540	2780	1860	1400	1220	NA*	2780	1970	1480	1500	NA*	2160
Selenium		180	1500	6800	0.41 J	ND	2.4	1.9	0.38 J	2.8	1.4	0.49 J	ND	NA*	1.6	0.67	0.37 J	0.49 J	NA*	0.28 J
Silver		180	1500	6800	1.8	0.94	3.2	3.4	1.2	2.4	1.6	1.2	0.94	NA*	2.5	1.8	1.5	1.4	NA*	2.1
Sodium					ND	ND	227 J	ND	ND	ND	ND	ND	ND	NA*	690	ND	ND	ND	NA*	ND
Thallium					0.77	ND	0.26 J	ND	ND	0.37 J	ND	ND	ND	NA*	0.28 J	0.44 J	ND	0.58	NA*	0.57
Vanadium					21.5	12	19.5	19.3	14.4	27.2	22	16.4	12.6	NA*	26	8.7	12.8	15.7	NA*	12.2
Zinc		10000	10000	10000	138	40.7	973	830	47.2	452	260	53.5	39.5	NA*	823	161	71.2	102	NA*	82
Mercury		0.81	2.8	5.7	0.31	0.014 J	0.58	0.34	0.34	1.5	0.55	0.1	0.071	NA*	5.9	0.099	0.035 J	0.32	NA*	0.069
Metals, SPLP																				
Arsenic	0.025				ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	NA*	ND	NA*
Barium	1				0.011 J	0.0073 J	0.018 J	0.014 J	0.012 J	0.014 J	NA*	0.015 J	0.0055 J	NA*	0.021 J	NA*	NA*	NA*	0.018 J	NA*
Cadmium	0.005				0.00013 J	0.000087 J	ND	0.00018 J	0.00034 J	NA*	0.00012 J	ND	ND	NA*	0.00015 J	NA*	NA*	NA*	0.00029 J	NA*
Chromium	0.05				0.0051 J	0.0031 J	0.0046 J	0.0041 J	0.0044 J	0.0033 J	NA*	0.0058 J	ND	NA*	0.0058 J	NA*	NA*	NA*	0.0043 J	NA*
Lead	0.025				0.0098	0.0092	0.034	0.039	0.0064	0.042	NA*	0.011	ND	NA*	0.07	NA*	NA*	NA*	0.028	NA*
Selenium	0.01				ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	ND	NA*
Silver	0.05				ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	ND	NA*
Mercury	0.0007				ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	0.0002	NA*	NA*	NA*	ND	NA*
Pesticides																				
4,4'-DDD		13	92	180	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
4,4'-DDE		8.9	62	120	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
4,4'-DDT		7.9	47	94	ND	ND	ND	ND	ND	0.0098	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Aldrin	0.097		0.68	1.4	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Dieldrin	0.2		1.4	2.8	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endosulfan I	24		200	920	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endosulfan II	24		200	920	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endosulfan sulfate	24		200	920	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endrin	11		89	410	ND	ND	ND	ND	ND	0.0049	NA*	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endrin aldehyde					ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Endrin ketone					ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Heptachlor	2.1		15	29	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Heptachlor epoxide					ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Methoxychlor					ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
Toxaphene					ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
alpha-BHC	0.48		3.4	6.8	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
alpha-Chlordane	4.2		24	47	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
beta-BHC	0.36		3	14	ND	ND	ND	0.0026	ND	NA*	ND	0.004	0.004	NA*	0.0031	NA*	NA*	ND	ND	NA*
delta-BHC	100		500	1000	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
gamma-BHC (Lindane)	1.3		9.2	23	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
gamma-Chlordane					ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCBs																				
PCB-1016 (Aroclor 1016)		1	1	25	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1221 (Aroclor 1221)		1	1	25	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1232 (Aroclor 1232)		1	1	25	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1242 (Aroclor 1242)		1	1	25	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1248 (Aroclor 1248)		1	1	25	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1254 (Aroclor 1254)		1	1	25	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*
PCB-1260 (Aroclor 1260)		1	1	25	ND	ND	ND	ND	ND	NA*	ND	ND	ND	NA*	ND	NA*	NA*	ND	ND	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB-28 BO	SB-28 C	SB-29 BO	SB-29 BO DUP	SB-29 C	SB-3 BO	SB-36 BO	SB-36C	SB-3C	SB-3D	SB2 BO	SB2A	SB2C	SB33-C	SB33-D	SB4A
	Depth				2"-2'	28'-30'	2"-2'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	25'-30'	5'-10'	2"-2'	0-2"	25'-30'	25'-30'	25'-30'	0-2"
	Sample Date				7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/27/2017	7/27/2017	7/28/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																
VOCs																				
1,1,1-Trichloroethane		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1,2,2-Tetrachloroethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichloroethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1,2-Trichlorotrifluoroethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethane		26	240	480	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,1-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2,4-Trichlorobenzene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dibromo-3-chloropropane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dibromoethane (EDB)					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dichlorobenzene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dichloroethane		3.1	30	60	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,2-Dichloropropane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,3-Dichlorobenzene		49	280	560	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
1,4-Dichlorobenzene		13	130	250	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
2-Butanone (MEK)		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	0.0301	0.0093	0.212 J	ND	NA*	NA*	NA*	NA*	NA*
2-Hexanone					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
4-Methyl-2-pentanone (MIBK)					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Acetone		100	500	1000	ND	ND	ND	ND	0.0175	ND	NA*	0.169	0.032	ND	ND	NA*	NA*	NA*	NA*	NA*
Benzene		4.8	44	89	ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.476	ND	NA*	NA*	NA*	NA*	NA*
Bromodichloromethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Bromoform					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Bromomethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Carbon disulfide					ND	ND	ND	ND	ND	ND	NA*	ND	0.0018 J	0.178 J	ND	NA*	NA*	NA*	NA*	NA*
Carbon tetrachloride		2.4	22	44	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chlorobenzene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chloroethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chloroform		49	350	700	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Chloromethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Cyclohexane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Dibromochloromethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Dichlorodifluoromethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Ethylbenzene		41	390	780	ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.407	ND	NA*	NA*	NA*	NA*	NA*
Isopropylbenzene (Cumene)					ND	0.129 J	ND	ND	ND	ND	NA*	0.0014 J	ND	0.91	ND	NA*	NA*	NA*	NA*	NA*
Methyl acetate					ND	0.167	ND	ND	ND	ND	NA*	ND	ND	1.01	ND	NA*	NA*	NA*	NA*	NA*
Methyl-tert-butyl ether		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Methylcyclohexane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.228	ND	NA*	NA*	NA*	NA*	NA*
Methylene Chloride		100	500	1000	0.0013 J	ND	0.0017 J	0.0017 J	0.0027	0.0024 J	NA*	0.0023	0.0021 J	ND	0.0034 J	NA*	NA*	NA*	NA*	NA*
Styrene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Tetrachloroethene		19	150	300	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Toluene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	0.258	ND	NA*	NA*	NA*	NA*	NA*
Trichloroethene		21	200	400	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Trichlorofluoromethane					ND	ND	ND	ND	0.0022 J	ND	NA*	0.0019 J	0.0014 J	ND	0.0026 J	NA*	NA*	NA*	NA*	NA*
Vinyl chloride		0.9	13	27	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
Xylene (Total) (2)		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	1.42	ND	NA*	NA*	NA*	NA*	NA*
cis-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
cis-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
trans-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	ND	ND	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB-28 BO	SB-28 C	SB-29 BO	SB-29 BO DUP	SB-29 C	SB-3 BO	SB-36 BO	SB-36C	SB-3C	SB-3D	SB2 BO	SB2A	SB2C	SB33-C	SB33-D	SB4A
	Depth				2"-2'	28'-30'	2"-2'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	25'-30'	5'-10'	2"-2'	0-2"	25'-30'	25'-30'	25'-30'	0-2"
	Sample Date				7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/27/2017	7/27/2017	7/28/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																
SVOCs																				
1,2,4-Trichlorobenzene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4,5-Trichlorophenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4,6-Trichlorophenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dichlorophenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dimethylphenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrophenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrotoluene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2,6-Dinitrotoluene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Chloronaphthalene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Chlorophenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Methylnaphthalene					ND	ND	0.193	ND	ND	0.431	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Nitroaniline					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
2-Nitrophenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
3,3'-Dichlorobenzidine					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
3-Nitroaniline					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Bromophenylphenyl ether					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Chloro-3-methylphenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Chloroaniline					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Chlorophenylphenyl ether					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Nitroaniline					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
4-Nitrophenol					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Acenaphthene		100	500	1000	ND	ND	0.135	ND	ND	0.186	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Acenaphthylene		100	500	1000	ND	ND	ND	ND	ND	0.352	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Acetophenone					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Anthracene		100	500	1000	ND	ND	0.0804	ND	ND	0.342	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Atrazine					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzaldehyde					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	0.0854	NA*	NA*	NA*	NA*	NA*
Benzo(a)anthracene		1	5.6	11	0.0967	ND	0.115	0.112	ND	1.04	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1.1	0.086	ND	0.123	0.112	ND	1.37	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(b)fluoranthene		1	5.6	11	0.134	ND	0.153	0.127	ND	1.59	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	500	1000	ND	ND	0.127	0.0907	ND	1.02	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Benzo(k)fluoranthene		3.9	56	110	ND	ND	0.0998	0.0648 J	ND	0.727	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Biphenyl (Diphenyl)					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Butylbenzylphthalate					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Caprolactam					ND	ND	ND	ND	ND	0.111	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Carbazole					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Chrysene		3.9	56	110	0.111	ND	0.152	0.134	ND	1.61	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Di-n-butylphthalate					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Di-n-octylphthalate					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.56	1.1	ND	ND	ND	ND	ND	0.305	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Dibenzofuran		59	350	1000	ND	ND	ND	ND	ND	0.109	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Diethylphthalate					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Dimethylphthalate					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Fluoranthene		100	500	1000	0.206	ND	0.203	0.218	0.103	2.28	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Fluorene		100	500	1000	ND	ND	0.134	ND	ND	0.23	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachloro-1,3-butadiene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachlorobenzene		1.2	6	12	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachlorocyclopentadiene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Hexachloroethane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	ND	ND	0.104	ND	ND	0.841	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Isophorone					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
N-Nitroso-di-n-propylamine					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
N-Nitrosodiphenylamine					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Naphthalene		100	500	1000	ND	ND	0.187	ND	ND	1.15	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Nitrobenzene					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Pentachlorophenol		6.7	6.7	55	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Phenanthrene		100	500	1000	0.146	ND	0.203	0.121	ND	2.08	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Phenol		100	500	1000	ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
Pyrene		100	500	1000	0.159	ND	0.117	0.212	ND	2.27	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethoxy)methane					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethyl) ether					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate					ND	ND	ND	ND	ND	ND	NA*	ND	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*
TPH																				
Total Petroleum Hydrocarbons					128	179	213	321	475	247	NA*	206	383	6870	315	NA*	NA*	NA*	NA*	NA*

Notes:

- (5) 'ND' = Not Detected
- (1) Standards based on Chromium, hexavalent.
- (6) Results exceeding Groundwater A Standard's are RED

TABLE 13. Soil Analytical Results

	Sample ID				SB-28 BO	SB-28 C	SB-29 BO	SB-29 BO DUP	SB-29 C	SB-3 BO	SB-36 BO	SB-36C	SB-3C	SB-3D	SB2 BO	SB2A	SB2C	SB33-C	SB33-D	SB4A
	Depth				2"-2'	28'-30'	2"-2'	2"-2'	25'-30'	2"-2'	2"-2'	25'-30'	25'-30'	5'-10'	2"-2'	0-2"	25'-30'	25'-30'	25'-30'	0-2"
	Sample Date				7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/27/2017	7/27/2017	7/28/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																

(2) Standards based on Xylene (mixed).

(3) Groundwater standards only provided for those metals for which SPLP analyses were completed

(4) All results in ppm

(7) Results exceeding residential SCOs are RED

(8) Results exceeding commercial SCOs are BLUE

(9) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID				SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 BO2	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
	Depth				25'-30'	2''-2'	25'-30'	25'-30'	2''-2'	25'-30'	0-2''	25'-30'	2''-2'
	Sample Date				7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
Metals													
Aluminum					5660	NA*	7130	6920	NA*	NA*	NA*	NA*	NA*
Antimony					ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*
Arsenic		16	16	16	3.4	NA*	4.2	3.3	NA*	NA*	NA*	NA*	NA*
Barium		400	400	10000	19.7	NA*	37.4	35	NA*	NA*	NA*	NA*	NA*
Beryllium		72	590	2700	0.11 J	NA*	0.13 J	0.10 J	NA*	NA*	NA*	NA*	NA*
Cadmium		4.3	9.3	60	0.037 J	NA*	0.11 J	0.071 J	NA*	NA*	NA*	NA*	NA*
Calcium					1180	NA*	4540	2020	NA*	NA*	NA*	NA*	NA*
Chromium (1)		110	140	800	2.4	NA*	4.3	3.7	NA*	NA*	NA*	NA*	NA*
Cobalt					5	NA*	7.2	6.1	NA*	NA*	NA*	NA*	NA*
Copper		270	270	10000	8.5	NA*	9.8	11.7	NA*	NA*	NA*	NA*	NA*
Iron					13900	NA*	17900	19300	NA*	NA*	NA*	NA*	NA*
Lead		400	1000	3900	4.8	NA*	5.9	15.8	NA*	NA*	NA*	NA*	NA*
Magnesium					3060	NA*	4320	3580	NA*	NA*	NA*	NA*	NA*
Manganese		2000	10000	10000	137	NA*	178	204	NA*	NA*	NA*	NA*	NA*
Nickel		310	310	10000	11.1	NA*	15.1	13.9	NA*	NA*	NA*	NA*	NA*
Potassium					696	NA*	922	848	NA*	NA*	NA*	NA*	NA*
Selenium		180	1500	6800	ND	NA*	0.44 J	0.58 J	NA*	NA*	NA*	NA*	NA*
Silver		180	1500	6800	0.95	NA*	1.2	1.4	NA*	NA*	NA*	NA*	NA*
Sodium					ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*
Thallium					ND	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*
Vanadium					8.6	NA*	14.8	12.1	NA*	NA*	NA*	NA*	NA*
Zinc		10000	10000	10000	35.4	NA*	46.7	48.2	NA*	NA*	NA*	NA*	NA*
Mercury		0.81	2.8	5.7	0.017 J	NA*	ND	0.021 J	NA*	NA*	NA*	NA*	NA*
Metals, SPLP													
Arsenic	0.025				ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1				0.038 J	0.075 J	0.046 J	0.054 J	0.077 J	0.038 J	0.025 J	0.0074 J	0.016 J
Cadmium	0.005				ND	0.00018 J	ND	ND	0.000063 J	ND	0.00012 J	ND	ND
Chromium	0.05				0.0051 J	0.01	0.0021 J	0.0034 J	0.0069 J	0.0029 J	0.0062 J	0.0021 J	0.0038 J
Lead	0.025				0.0030 J	0.057	0.0020 J	0.0032 J	0.041	0.01	0.083	0.0075	0.058
Selenium	0.01				ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.05				ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.0007				ND	0.00029	ND	ND	0.00043	ND	0.00095	ND	0.0024
Pesticides													
4,4'-DDD		13	92	180	NA*	ND	ND	NA*	0.0127	ND	ND	ND	0.0404
4,4'-DDE		8.9	62	120	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0138
4,4'-DDT		7.9	47	94	NA*	ND	ND	NA*	0.0084	ND	ND	ND	0.0053
Aldrin		0.097	0.68	1.4	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Dieldrin		0.2	1.4	2.8	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Endosulfan I		24	200	920	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0049
Endosulfan II		24	200	920	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0068
Endosulfan sulfate		24	200	920	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0107
Endrin		11	89	410	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Endrin aldehyde					NA*	ND	ND	NA*	ND	ND	ND	ND	0.0075
Endrin ketone					NA*	ND	ND	NA*	ND	ND	ND	ND	0.0246

TABLE 13. Soil Analytical Results

	Sample ID				SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 B02	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
	Depth				25'-30'	2''-2'	25'-30'	25'-30'	2''-2'	25'-30'	0-2''	25'-30'	2''-2'
	Sample Date				7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
Heptachlor		2.1	15	29	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Heptachlor epoxide					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methoxychlor					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Toxaphene					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
alpha-BHC		0.48	3.4	6.8	NA*	ND	ND	NA*	ND	ND	ND	ND	0.0069
alpha-Chlordane		4.2	24	47	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
beta-BHC		0.36	3	14	NA*	ND	ND	NA*	ND	ND	ND	ND	0.008
delta-BHC		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
gamma-BHC (Lindane)		1.3	9.2	23	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
gamma-Chlordane					NA*	ND	ND	NA*	ND	ND	ND	ND	0.0061
PCBs													
PCB-1016 (Aroclor 1016)		1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1221 (Aroclor 1221)		1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1232 (Aroclor 1232)		1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1242 (Aroclor 1242)		1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1248 (Aroclor 1248)		1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1254 (Aroclor 1254)		1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
PCB-1260 (Aroclor 1260)		1	1	25	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
VOCs													
1,1,1-Trichloroethane		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1,2-Trichloroethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1-Dichloroethane		26	240	480	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,1-Dichloroethene		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dichloroethane		3.1	30	60	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,2-Dichloropropane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		49	280	560	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		13	130	250	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
2-Butanone (MEK)		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	0.0111	ND
2-Hexanone					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Acetone		100	500	1000	NA*	ND	ND	NA*	ND	0.0217	ND	ND	0.0112
Benzene		4.8	44	89	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Bromodichloromethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Bromoform					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Bromomethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Carbon disulfide					NA*	ND	0.0076	NA*	ND	ND	ND	0.0111	ND
Carbon tetrachloride		2.4	22	44	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Chlorobenzene		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Chloroethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 BO2	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
	Depth				25'-30'	2"-2'	25'-30'	25'-30'	2"-2'	25'-30'	0-2"	25'-30'	2"-2'
	Sample Date				7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
Chloroform		49	350	700	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Chloromethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Cyclohexane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Dibromochloromethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Dichlorodifluoromethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Ethylbenzene		41	390	780	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methyl acetate					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methyl-tert-butyl ether		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Methylcyclohexane					NA*	ND	0.0105	NA*	ND	ND	ND	ND	ND
Methylene Chloride		100	500	1000	NA*	0.0012 J	ND	NA*	0.0016 J	0.0014 J	0.0014 J	0.0022 J	0.0018 J
Styrene					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Tetrachloroethene		19	150	300	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Toluene		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Trichloroethene		21	200	400	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Trichlorofluoromethane					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Vinyl chloride		0.9	13	27	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
Xylene (Total) (2)		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		100	500	1000	NA*	ND	ND	NA*	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene					NA*	ND	ND	NA*	ND	ND	ND	ND	ND
SVOCs													
1,2,4-Trichlorobenzene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,2'-Oxybis(1-chloropropane)					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4,5-Trichlorophenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4,6-Trichlorophenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dichlorophenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dimethylphenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrophenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,4-Dinitrotoluene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2,6-Dinitrotoluene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Chloronaphthalene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Chlorophenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylnaphthalene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Methylphenol(o-Cresol)		100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitroaniline					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
2-Nitrophenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
3&4-Methylphenol(m&p Cresol)		100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
3,3'-Dichlorobenzidine					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
3-Nitroaniline					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4,6-Dinitro-2-methylphenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Bromophenylphenyl ether					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloro-3-methylphenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Chloroaniline					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*

TABLE 13. Soil Analytical Results

	Sample ID				SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 BO2	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
	Depth				25'-30'	2"-2'	25'-30'	25'-30'	2"-2'	25'-30'	0-2"	25'-30'	2"-2'
	Sample Date				7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
4-Chlorophenylphenyl ether					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitroaniline					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
4-Nitrophenol					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthene		100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acenaphthylene		100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Acetophenone					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Anthracene		100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Atrazine					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzaldehyde					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(a)anthracene		1	5.6	11	NA*	0.106	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(a)pyrene		1	1	1.1	NA*	0.0957	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(b)fluoranthene		1	5.6	11	NA*	0.132	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(g,h,i)perylene		100	500	1000	NA*	0.131	ND	NA*	NA*	NA*	NA*	NA*	NA*
Benzo(k)fluoranthene		3.9	56	110	NA*	0.055 J	ND	NA*	NA*	NA*	NA*	NA*	NA*
Biphenyl (Diphenyl)					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Butylbenzylphthalate					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Caprolactam					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Carbazole					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chrysene		3.9	56	110	NA*	0.133	ND	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-butylphthalate					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Di-n-octylphthalate					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dibenz(a,h)anthracene		0.33	0.56	1.1	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dibenzofuran		59	350	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Diethylphthalate					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Dimethylphthalate					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Fluoranthene		100	500	1000	NA*	0.246	ND	NA*	NA*	NA*	NA*	NA*	NA*
Fluorene		100	500	1000	NA*	0.0928	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloro-1,3-butadiene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorobenzene		1.2	6	12	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachlorocyclopentadiene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Hexachloroethane					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	NA*	0.106	ND	NA*	NA*	NA*	NA*	NA*	NA*
Isophorone					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitroso-di-n-propylamine					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
N-Nitrosodiphenylamine					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Naphthalene		100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Nitrobenzene					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pentachlorophenol		6.7	6.7	55	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Phenanthrene		100	500	1000	NA*	0.257	ND	NA*	NA*	NA*	NA*	NA*	NA*
Phenol		100	500	1000	NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pyrene		100	500	1000	NA*	0.31	ND	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethoxy)methane					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Chloroethyl) ether					NA*	ND	ND	NA*	NA*	NA*	NA*	NA*	NA*
bis(2-Ethylhexyl)phthalate					NA*	ND	0.547	NA*	NA*	NA*	NA*	NA*	NA*
TPH													

TABLE 13. Soil Analytical Results

	Sample ID				SB 14 CO	SB 15 B02	SB 15 CO	SB 18 CO	SB 19 B02	SB 19 CO	SB 20 A0	SB 20 C0	SB 20B02
	Depth				25'-30'	2"-2'	25'-30'	25'-30'	2"-2'	25'-30'	0-2"	25'-30'	2"-2'
	Sample Date				7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
Total Petroleum Hydrocarbons					NA*	178	647	NA*	316	275	244	ND	815

Notes:

- (1) Standards based on Chromium, hexavalent.

(2) Standards based on Xylene (mixed).

(3) Groundwater standards only provided for those metals for which SPLP analyses were completed

(4) All results in ppm

(5) 'ND' = Not Detected

(6) Results exceeding Groundwater A Standard's are RED
- (7) Results exceeding residential SCOs are RED

(8) Results exceeding commercial SCOs are BLUE

(9) Results exceeeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID				BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
	Description				0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
	Sample Date				8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
Metals													
Aluminum					7070	6580	9920	8260	9770	8610	10300	11200	10500
Antimony					5	0.23 J	3.2 J	ND	0.78 J	2.6 J	ND	ND	ND
Arsenic		16	16	16	12.3	15.9	18	22.6	10.8	11.8	10.5	14.1	11.6
Barium		400	400	10000	208	818	279	150	163	200	154	153	144
Beryllium		72	590	2700	0.47	0.55	0.43	0.45	0.38	0.34	0.44	0.72	0.42
Cadmium		4.3	9.3	60	0.8	1.1	2.2	0.84	1.3	1.2	1	1.1	0.98
Calcium					7130	11200	12400	11600	14000	23000	37800	8940	13900
Chromium (1)		110	140	800	11.8	12.6	15.9	11	21.9	24.8	9.6	10.8	9.5
Cobalt					6.5	8.1	9.8	8.4	9.3	9.1	30.2	22.1	20
Copper		270	270	10000	166	139	101	57.7	73.7	382	47.3	63.3	55.6
Iron					14000	15000	41000	19800	31100	29700	33500	36200	34600
Lead		400	1000	3900	802	989	982	2300	514	24800	306	348	311
Magnesium					1260	1530	4500	3300	5080	3610	5020	4770	4540
Manganese		2000	10000	10000	255	276	596	645	535	575	842	698	644
Nickel		310	310	10000	18.1	17.7	25.1	19.3	23.7	21.8	45.4	40.6	27.9
Potassium					1400	1360	1990	1830	2180	7010	1390	1360	1260
Selenium		180	1500	6800	1.7	3	2.3	2.4	1.4	1.3	0.47 J	0.85	0.76
Silver		180	1500	6800	2.2	2.1	4.4	3.8	3.2	4.3	2.9	3.3	3.1
Sodium						ND	ND	ND	ND	192 J	ND	ND	ND
Thallium					ND	ND	0.24 J	0.62	ND	ND	0.30 J	0.31 J	0.23 J
Vanadium					31.2	29.3	24.5	23.3	23.1	25.6	16.5	18.9	17.3
Zinc		10000	10000	10000	327	442	635	314	352	427	248	250	216
Mercury		0.81	2.8	5.7	1.9	1.4	ND	2.8	1.5	1.7	1.8	1.5	1.3
Metals, SPLP													
Arsenic	0.025				0.0073 J	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1				0.075 J	0.068 J	0.072 J	0.092 J	0.13 J	0.13 J	0.085 J	0.087 J	0.098 J
Cadmium	0.005				ND	0.00011 J	0.000080 J	ND	ND	0.000060 J	ND	0.000066 J	ND
Chromium	0.05				0.0036 J	0.0075 J	0.0035 J	0.0053 J	0.0088 J	0.0098 J	0.0034 J	0.0045 J	0.0064 J
Lead	0.025				0.14	0.044	0.047	0.11	0.079	0.11	0.038	0.024	0.035
Selenium	0.01				ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.05				ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.0007				0.00024	ND	0.00044	0.00023	ND	0.00044	ND	ND	0.00024
Pesticides													
4,4'-DDD		13	92	180	ND	ND	ND	0.0094	ND	0.0037	ND	ND	0.0143
4,4'-DDE		8.9	62	120	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT		7.9	47	94	ND	ND	0.0053	ND	ND	0.0083	ND	ND	0.011
Aldrin		0.097	0.68	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin		0.2	1.4	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I		24	200	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		24	200	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		24	200	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin		11	89	410	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde					0.0086	ND	ND	ND	ND	ND	ND	ND	0.0286
Endrin ketone					ND	ND	0.008	0.0078	ND	0.0061	ND	ND	0.0113
Heptachlor		2.1	15	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide					ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor					ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene					ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC		0.48	3.4	6.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane		4.2	24	47	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC		0.36	3	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)		1.3	9.2	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane					ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
	Description				0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
	Sample Date				8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
PCBs													
PCB-1016 (Aroclor 1016)		1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221 (Aroclor 1221)		1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232 (Aroclor 1232)		1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242 (Aroclor 1242)		1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248 (Aroclor 1248)		1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254 (Aroclor 1254)		1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260 (Aroclor 1260)		1	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs													
1,1,1-Trichloroethane		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		26	240	480	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane					ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)					ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		3.1	30	60	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane					ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		49	280	560	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		13	130	250	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone					ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)					ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		4.8	44	89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform					ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide					ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		2.4	22	44	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		49	350	700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		41	390	780	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)					ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate					ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride		100	500	1000	0.0031 J	0.003 J	0.0022 J	ND	0.0026 J	0.0021 J	0.0018 J	ND	0.0014 J
Styrene					ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		19	150	300	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		21	200	400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride		0.9	13	27	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total) (2)		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene					ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
	Description				0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
	Sample Date				8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
SVOCs													
1,2,4-Trichlorobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene					ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene					ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene					ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene					0.0856	ND	0.0855	0.204	ND	0.0835	ND	ND	ND
2-Methylphenol(o-Cresol)		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline					ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine					ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline					ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether					ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline					ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenylphenyl ether					ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline					ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol					ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		100	500	1000	0.206	ND	0.182	0.618	ND	ND	ND	ND	ND
Acenaphthylene		100	500	1000	0.492	0.117	0.0788	0.568	ND	0.107	ND	ND	ND
Acetophenone					ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		100	500	1000	2.62	0.301	0.469	2.46	ND	0.132	ND	ND	ND
Atrazine					ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde					0.135	0.144	0.119	0.135	ND	ND	ND	ND	ND
Benzo(a)anthracene		1	5.6	11	5.95	1.11	2.1	7.41	0.215	0.778	0.183	0.274	0.249
Benzo(a)pyrene		1	1	1.1	5.36	1.18	1.91	5.43	0.228	0.771	0.201	0.27	0.285
Benzo(b)fluoranthene		1	5.6	11	11.1	1.95	3.33	6.64	0.313	1.21	0.333	0.417	0.404
Benzo(g,h,i)perylene		100	500	1000	1.97	0.447	0.631	1.83	0.175	0.307	0.117	0.146	0.16
Benzo(k)fluoranthene		3.9	56	110	3.67	0.879	1.14	3.08	0.133	0.578	0.118	0.21	0.239
Biphenyl (Diphenyl)					ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate					ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam					ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole					0.681	0.109	0.145	0.392	ND	ND	ND	ND	ND
Chrysene		3.9	56	110	6.04	1.24	2.09	7.25	0.245	0.844	0.201	0.307	0.298
Di-n-butylphthalate					ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate					ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene		0.33	0.56	1.1	0.674	0.161	0.222	0.631	ND	0.0989	ND	ND	ND
Dibenzofuran		59	350	1000	0.447	ND	0.112	0.381	ND	ND	ND	ND	ND
Diethylphthalate					ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate					ND	ND	ND	ND	0.219	ND	ND	ND	ND
Fluoranthene		100	500	1000	22.2	2.06	3.38	14.1	0.394	1.04	0.285	0.452	0.442
Fluorene		100	500	1000	0.98	0.0805	0.146	0.678	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene					ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene		1.2	6	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene					ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane					ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		0.5	5.6	11	2.34	0.497	0.699	2.02	0.152	0.307	0.0905	0.135	0.153
Isophorone					ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine					ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 13. Soil Analytical Results

	Sample ID				BS-1A	BS-1B	BS-2A	BS-2B	BS-3A	BS-3B	BS-4A	BS-4B	BS-4B DUP
	Description				0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	6"-2'
	Sample Date				8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/3/2017
Contaminants	Part 703 Groundwater A Standard (3)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial									
N-Nitrosodiphenylamine					ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		100	500	1000	0.213	0.188	0.199	0.328	ND	0.395	0.0904	0.0959	0.095
Nitrobenzene					ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol		6.7	6.7	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		100	500	1000	19.2	1.19	2.02	9.01	0.181	0.543	0.182	0.354	0.282
Phenol		100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		100	500	1000	18	2.73	4.75	13.5	0.391	1.57	0.46	0.706	0.49
bis(2-Chloroethoxy)methane					ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether					ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate					0.106	ND	ND	0.106	ND	ND	ND	ND	ND
TPH													
Total Petroleum Hydrocarbons													
					167	211	189	ND	219	143	151	421	228

Notes:

- (1) Standards based on Chromium, hexavalent.
- (2) Standards based on Xylene (mixed).
- (3) Groundwater standards only provided for those metals for which SPLP analyses were completed
- (4) All results in ppm
- (5) 'ND' = Not Detected
- (6) Results exceeding Groundwater A Standard's are RED
- (7) Results exceeding residential SCOs are RED
- (8) Results exceeding commercial SCOs are BLUE
- (9) Results exceeding industrial SCOs are GREEN

TABLE 13. Soil Analytical Results

	Sample ID					BS-5A	BS-5B	BS-6A	BS-6B	BS-7A	BS-7B	BS-8A	BS-8B	BS-9A	BS-9B	SB15A	SB19AO	SB23AO	SB24AO	SB33AO	SB7AO	SE-10	SE-6	SE-7	SE-8	SE-9 DUP	SE-9
	Depth					0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
	Sample Date					8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	
Contaminants	Part 703 Groundwater A Standard (3)	Class C SGV (10)	6 NYCRR-375.6.8(b) Residential	6 NYCRR-375.6.8(b) Commercial	6 NYCRR-375.6.8(b) Industrial																						
Metals																											
Aluminum						8510	8500	9230	11000	8560	9160	9280	8210	11200	13100	8410	NA*	17400	NA*	12300	9210	6610	9520	6690	7180	6120	7490
Antimony						ND	ND	ND	0.84 J	ND	ND	ND	ND	ND	ND	3.4 J	NA*	0.53 J	NA*	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	33	16	16	16	16	9.2	9.3	9.1	14.6	7	7.1	7.5	6.8	12.3	10.7	14.7	NA*	9.3	NA*	11.4	7.8	4.7	7.7	5.8	5	4.6	5.7
Barium		400	400	10000	10000	178	139	190	290	78.3	85.2	107	97.3	143	168	297	NA*	189	NA*	116	98.1	46.6	87	72	57.6	50.5	60.6
Beryllium		72	590	2700	2700	0.43	0.35	1.1	1.2	0.36	0.41	0.41	0.34	1	0.67	0.98	NA*	1.1	NA*	1.7	0.36	0.26 J	0.44	0.30 J	0.28 J	0.23 J	0.30 J
Cadmium	5	4.3	9.3	60	60	1.5	1.2	1.1	1.5	0.95	1.5	0.95	0.68	1.6	2.2	1.6	NA*	0.89	NA*	0.35	0.57	0.45	0.66	0.61	0.49	0.43	0.54
Calcium						24000	10700	8570	9590	19900	19700	17700	9150	27700	45200	9850	NA*	66900	NA*	55600	11300	16500	22200	15900	23100	18800	20200
Chromium (1)	110	110	140	800	800	18.8	16.5	28.8	36.2	15.5	13.3	24.6	18.6	16.9	8.9	40.3	NA*	5.2	NA*	4.3	7.8	9.6	12	13	10.3	8.4	10.2
Cobalt						8.5	7.8	16.7	16.3	8.7	10.7	9.5	7	8.5	6.6	24.6	NA*	5.4	NA*	2.9 J	9	7.1	9.6	7.2	7.6	6.3	7.8
Copper	150	270	270	10000	10000	71.9	79.2	143	180	32.7	51.8	38	39.4	60.6	58.6	393	NA*	26.5	NA*	14.7	37.7	20.2	35.2	42.9	22.8	20.2	24.8
Iron						20700	21200	21400	28200	18100	19200	19200	16600	38100	17300	44400	NA*	18100	NA*	7390	19700	14700	20400	14900	15800	13900	16700
Lead	130	400	1000	3900	3900	284	318	436	813	37	71	69.7	107	242	308	722	NA*	112	NA*	34.9	76.5	16.7	43.3	142	20.2	15	22.8
Magnesium						5510	4930	3410	4000	6050	5540	6050	3690	6070	5740	3140	NA*	6970	NA*	11200	5140	7090	6670	5300	7390	5930	7460
Manganese		2000	10000	10000	10000	551	564	455	560	531	549	673	496	780	1130	505	NA*	2150	NA*	803	463	331	685	350	395	350	411
Nickel	49	310	310	10000	10000	21.8	21.4	61.4	57.5	20.1	35.4	21.9	18.1	30.1	13.6	125	NA*	10.7	NA*	7.5	23.4	15.4	21.7	16.4	16.7	13.8	17.2
Potassium						1830	1380	1650	1980	1590	1670	1750	1340	1800	2050	1580	NA*	2320	NA*	1130	1460	1030	1550	1150	1160	1010	1200
Selenium		180	1500	6800	6800	1.9	1.2	1.7	1.7	0.53 J	0.95	0.72	0.69	1.5	0.52 J	1.5	NA*	0.89	NA*	ND	0.45 J	ND	ND	ND	ND	ND	ND
Silver	2.2	180	1500	6800	6800	2.1	2.1	2.2	2.9	1.5	1.6	1.7	1.5	2.3	1.6	3.7	NA*	1.4	NA*	ND	1.9	1.3	1.8	1.3	1.4	1.2	1.4
Sodium						ND	ND	ND	ND	ND	ND	ND	ND	314 J	1630	ND	NA*	1740	NA*	1030	ND	ND	ND	ND	ND	ND	ND
Thallium						0.56 J	0.65	0.52 J	0.60 J	0.57 J	0.50 J	0.87	0.67	0.46 J	0.55 J	0.49 J	NA*	0.81	NA*	ND	0.31 J	ND	0.89	0.32 J	ND	0.44 J	0.44 J
Vanadium						18.8	18.3	19.5	28.6	17.3	17.6	19.2	17.6	25	24.6	20.1	NA*	23.3	NA*	10.3	19.7	14	20	14.9	15.9	13.3	16.2
Zinc	460	10000	10000	10000	10000	451	335	522	669	173	363	184	159	472	3200	800	NA*	209	NA*	95.5	162	81	106	141	83	70.9	112
Mercury	1	0.81		2.8	5.7	1	1.7	1.3	2.6	0.11	0.11	0.23	0.46	0.64	0.61	3	NA*	0.23	NA*	0.069	0.14	0.12	0.12	0.65	0.050 J	0.035 J	0.044 J
Metals, SPLP																											
Arsenic	0.025					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Barium	1					0.086 J	0.10 J	0.094 J	0.088 J	0.099 J	0.10 J	0.095 J	0.11 J	0.078 J	0.072 J	NA*	0.077 J	NA*	0.078 J	NA*	0.13 J	NA*	NA*	NA*	NA*	NA*	NA*
Cadmium	0.005					ND	ND	ND	0.00015 J	0.00010 J	0.00027 J	ND	0.000097 J	0.000086 J	ND	NA*	0.00011 J	NA*	0.000084 J	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Chromium	0.05					0.0030 J	0.0064 J	0.0036 J	0.0051 J	0.0039 J	0.0037 J	0.0052 J	0.0075 J	0.0033 J	0.0044 J	NA*	0.0080 J	NA*	0.0028 J	NA*	0.0052 J	NA*	NA*	NA*	NA*	NA*	NA*
Lead	0.025					0.018	0.044	0.026	0.062	ND	ND	ND	0.011	0.0061	0.027	NA*	0.085	NA*	0.017	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Selenium	0.01					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Silver	0.05					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Mercury	0.0007					ND	0.00026	ND	0.00029	ND	ND	ND	ND	ND	ND	NA*	0.00067	NA*	ND	NA*	ND	NA*	NA*	NA*	NA*	NA*	NA*
Pesticides																											
4,4'-DDD			13	92	180	0.0053	0.0043	0.0042	0.0533	ND	ND	ND	ND	0.0044	0.0123	NA*	0.023	NA*	0.0079	NA*	0.0041	ND	ND	ND	ND	ND	ND
4,4'-DDE			8.9	62	120	ND	ND	ND	ND	ND	ND																

TABLE 13. Soil Analytical Results

	Sample ID					BS-5A	BS-5B	BS-6A	BS-6B	BS-7A	BS-7B	BS-8A	BS-8B	BS-9A	BS-9B	SB15A	SB19AO	SB23AO	SB24AO	SB33AO	SB7AO	SE-10	SE-6	SE-7	SE-8	SE-9 DUP	SE-9
	Depth					0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-6"	6"-2'	0-2"	0-2"	0-2"	0-2"	0-2"	0-2"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
	Sample Date					8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	8/8/2017	
Contaminants	Part 703 Groundwater A Standard (3)	Class C SGV (10)	6 NYCRR- 375.6.8(b) Residential	6 NYCRR- 375.6.8(b) Commercial	6 NYCRR- 375.6.8(b) Industrial																						
Methylcyclohexane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride			100	500	1000	0.0023 J	0.0015 J	0.0019 J	0.0019 J	0.0021 J	0.0023 J	0.0021 J	0.0017 J	0.002 J	0.0016 J	NA*	0.002 J	NA*	0.0022 J	NA*	0.0015 J	0.0019 J	0.0018 J	0.0021 J	0.0018 J	0.0022 J	ND
Styrene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		57000	19	150	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Toluene		4500	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		8600	21	200	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride			0.9	13	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Xylene (Total) (2)		5200	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene			100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		11000	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	ND	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
SVOCs																											
1,2,4-Trichlorobenzene		55000				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol						ND	ND	0.0812	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene						ND	ND	0.0765	0.1	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.604	NA*	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol(o-Cresol)			100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol(m&p Cresol)			100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Bromophenylphenyl ether						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenylphenyl ether						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Acenaphthene			100	500	1000	ND	ND	ND	0.199	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	0.699	NA*	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene			100	500	1000	ND	ND	0.0754	ND	ND	ND	ND	ND	0.111	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Acetophenone						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA*	NA*	NA*	ND	NA*	ND	ND	ND	ND	ND	ND	ND
Anthracene			100	500	1000	0.2	0.13	0.109	0.666																		

Table 14. Pore Water Analytical Results

Contaminants	Part 703 Groundwater A Standard	Part 703 Surface Water Class C Aquatic, Chronic Standard	WP-1
Total Metals			
Aluminum			525
Antimony	3		ND
Arsenic	25		ND
Barium	1000		140 J
Beryllium			ND
Cadmium	5		ND
Calcium			66100
Chromium	50		2.6 J
Cobalt			ND
Copper	200		2.6 J
Lead	25		3.5 J
Iron	300		3460
Magnesium			7280
Manganese	300		812
Nickel	100		ND
Potassium			2470 J
Selenium	10		ND
Silver	50		ND
Sodium	20000		22300
Thallium			ND
Vanadium			1.3 J
Zinc			7.8 J
Mercury	0.7		ND
Dissolved Metals			
Aluminum, Dissolved		100	ND
Antimony, Dissolved	3		ND
Arsenic, Dissolved	25	150	ND
Barium, Dissolved	1000		102 J
Beryllium, Dissolved		1100	ND
Cadmium, Dissolved	5	3.5	ND
Calcium, Dissolved			65500
Chromium, Dissolved	50	11	ND
Cobalt, Dissolved		5	ND
Copper, Dissolved	200	15.7	ND
Iron, Dissolved	300		30.3 J
Lead, Dissolved	25	2.4	1.4 J
Magnesium, Dissolved			7130
Manganese, Dissolved	300		12.4
Nickel, Dissolved	100	90.8	ND
Potassium, Dissolved			1670 J
Selenium, Dissolved	10	4.6	ND
Silver, Dissolved	50	0.1	ND
Sodium, Dissolved	20000		22000
Thallium, Dissolved		8	ND
Vanadium, Dissolved		14	ND
Zinc, Dissolved		144.5	ND
Mercury, Dissolved	0.7	0.77	ND
Pesticides			
4,4'-DDD	0.3		ND
4,4'-DDE	0.2		ND
4,4'-DDT	0.2		ND
Aldrin	ND		ND
Dieldrin	0.004		ND
Endosulfan I		0.009	ND
Endosulfan II			ND
Endosulfan sulfate			ND
Endrin	ND	0.036	ND
Endrin aldehyde	5		ND
Endrin ketone	5		ND
Heptachlor	0.04		ND
Heptachlor epoxide	0.03		ND
Methoxychlor	35	0.03	ND
Toxaphene	0.06	0.005	ND
alpha-BHC	0.01		ND
alpha-Chlordane			ND
beta-BHC	0.04		ND
delta-BHC	0.04		ND
gamma-BHC (Lindane)	0.05		ND
gamma-Chlordane	0.05		ND

Table 14. Pore Water Analytical Results

	Part 703 Groundwater A Standard	Part 703 Surface Water Class C Aquatic, Chronic Standard	WP-1
Contaminants			
PCBs			
PCB-1016 (Aroclor 1016) (1)	0.09		ND
PCB-1221 (Aroclor 1221) (1)	0.09		ND
PCB-1232 (Aroclor 1232) (1)	0.09		ND
PCB-1242 (Aroclor 1242) (1)	0.09		ND
PCB-1248 (Aroclor 1248) (1)	0.09		ND
PCB-1254 (Aroclor 1254) (1)	0.09		ND
PCB-1260 (Aroclor 1260) (1)	0.09		ND
VOCs			
1,1,1-Trichloroethane	5		ND
1,1,2,2-Tetrachloroethane	5		ND
1,1,2-Trichloroethane	1		ND
1,1,2-Trichlorotrifluoroethane	5		ND
1,1-Dichloroethane	5		ND
1,1-Dichloroethene	5		ND
1,2,4-Trichlorobenzene	5		ND
1,2-Dibromo-3-chloropropane	0.04		ND
1,2-Dibromoethane (EDB)	0.0006		ND
1,2-Dichlorobenzene	3		ND
1,2-Dichloroethane	0.6		ND
1,2-Dichloropropane	1		ND
1,3-Dichlorobenzene	3		ND
1,4-Dichlorobenzene	3		ND
2-Butanone (MEK)			ND
2-Hexanone			ND
4-Methyl-2-pentanone (MIBK)			ND
Acetone			12.4
Benzene	1		ND
Bromodichloromethane			ND
Bromoform			ND
Bromomethane	5		ND
Carbon disulfide	60		ND
Carbon tetrachloride	5		ND
Chlorobenzene	5	5	ND
Chloroethane	5		ND
Chloroform	7		ND
Chloromethane	5		ND
Cyclohexane			ND
Dibromochloromethane			ND
Dichlorodifluoromethane	5		ND
Ethylbenzene	5		ND
Isopropylbenzene (Cumene)	5		ND
Methyl acetate			ND
Methyl-tert-butyl ether			ND
Methylcyclohexane			ND
Methylene Chloride	5		ND
Styrene	5		ND
Tetrachloroethene	5		ND
Toluene	5		ND
Trichloroethene	5		ND
Trichlorofluoromethane	5		ND
Vinyl chloride	2		ND
Xylene (Total)	5		ND
cis-1,2-Dichloroethene	5		ND
cis-1,3-Dichloropropene (2)	0.4		ND
trans-1,2-Dichloroethene	5		ND
trans-1,3-Dichloropropene (2)	0.4		ND
SVOCs			
2,2'-Oxybis(1-chloropropane)	5		ND
2,4,5-Trichlorophenol			ND
2,4,6-Trichlorophenol			ND
2,4-Dichlorophenol (3)	1		ND
2,4-Dimethylphenol (3)	1		ND
2,4-Dinitrophenol (3)	1		ND
2,4-Dinitrotoluene	5		ND
2,6-Dinitrotoluene	5		ND
2-Chloronaphthalene			ND
2-Chlorophenol			ND
2-Methylnaphthalene			ND
2-Methylphenol(o-Cresol)			ND
2-Nitroaniline	5		ND
2-Nitrophenol			ND
3&4-Methylphenol(m&p Cresol)			ND

Table 14. Pore Water Analytical Results

Contaminants	Part 703 Groundwater A Standard	Part 703 Surface Water Class C Aquatic, Chronic Standard	WP-1
3,3'-Dichlorobenzidine	5		ND
3-Nitroaniline	5		ND
4,6-Dinitro-2-methylphenol			ND
4-Bromophenylphenyl ether			ND
4-Chloro-3-methylphenol			ND
4-Chloroaniline	5		ND
4-Chlorophenylphenyl ether			ND
4-Nitroaniline	5		ND
4-Nitrophenol			ND
Acenaphthene			ND
Acenaphthylene			ND
Acetophenone			ND
Anthracene			ND
Atrazine	7.5		ND
Benzaldehyde			ND
Benzo(a)anthracene			ND
Benzo(a)pyrene	ND		ND
Benzo(b)fluoranthene			ND
Benzo(g,h,i)perylene			ND
Benzo(k)fluoranthene			ND
Biphenyl (Diphenyl)	5		ND
Butylbenzylphthalate			ND
Caprolactam			ND
Carbazole			ND
Chrysene			ND
Di-n-butylphthalate	50		ND
Di-n-octylphthalate			ND
Dibenz(a,h)anthracene			ND
Dibenzofuran			ND
Diethylphthalate			ND
Dimethylphthalate			ND
Fluoranthene			ND
Fluorene			ND
Hexachloro-1,3-butadiene	0.5	1	ND
Hexachlorobenzene	0.04		ND
Hexachlorocyclopentadiene	5	0.45	ND
Hexachloroethane	5		ND
Indeno(1,2,3-cd)pyrene			ND
Isophorone			ND
N-Nitroso-di-n-propylamine			ND
N-Nitrosodiphenylamine			ND
Naphthalene			ND
Nitrobenzene	0.4		ND
Pentachlorophenol (3)	1		ND
Phenanthrene			ND
Phenol (3)	1		ND
Pyrene			ND
bis(2-Chloroethoxy)methane	5		ND
bis(2-Chloroethyl) ether	1		ND
bis(2-Ethylhexyl)phthalate	5	0.6	ND
TPH			
Total Petroleum Hydrocarbons			ND

TABLE 15. Groundwater Analytical Results

		MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
Analyte	Part 703 Groundwater A Standard	9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Total Metals																				
Aluminum		ND	ND	ND	ND	66J	ND	ND	ND	700	ND	130J	11J	67J	95J	ND	ND	ND	1000	81J
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	ND	ND	5.9	6	1.6	1.4	2.8	35.5	22	0.99J	1.7	10.9	4.1	ND	ND	ND	ND	0.63J	ND
Barium	1000	87.8	89.2	146	119	207	200	172	298	340	171	174	216	287	111	99.3	104	95.2	116.0	94.9
Beryllium		ND	ND	ND	ND	ND	0.043J	ND	ND	0.085J	ND	ND	0.03J	ND	ND	ND	ND	ND	0.037J	ND
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.083J	ND	ND	ND	ND	ND	ND	ND
Calcium		90800	95500	162000	123000	134000	127000	124000	208000	211000	186000	192000	102000	112000	80300	68700	67800	145000	145000	141000
Chromium	50	ND	0.51JB	ND	ND	ND	0.39J	ND	ND	2.4	ND	0.99J	0.66J	ND	1.6	ND	ND	0.40	1.50	ND
Cobalt		0.12J	0.2J	0.35	0.45	0.24J	0.38	0.3	0.43	1.1	0.54	0.87	0.73	1.5	0.13J	0.14J	0.14J	0.25J	0.84	0.26J
Copper	200	0.45J	1	ND	0.38J	0.34J	0.38J	ND	1.5	6.7	0.29J	1	0.37J	0.52J	0.73J	0.65J	0.66J	0.86	2.50	1.1
Iron	300	ND	88	8500	7400	42600	42000	7600	52500	53500	28500	32300	33800	10400	120	57	20J	74	1600	130
Lead	25	0.36J	4.3	0.34J	1.1	1	0.94J	0.3J	0.26J	4.8	0.99J	2.7	0.43J	0.47J	0.44J	ND	ND	ND	0.84J	ND
Magnesium		12300	12900	16100	12000	16500	15000	10000	39300	42500	13100	13700	13500	14400	10900	9600	9400	15400	17400	14900
Manganese	300	ND	1.5	654	507	3330	2780	898	3400	2840	1700	1650	4470	2170	1.7	1.6	1.4	2.2	21.0	8.5
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	2.7	3.7	3.7	5.5	2.7	4.7	2.8	4.5	9.1	4.3	7.5	2.4	4.5	2.2	2.8	2.8	4.0	7.4	4.3
Potassium		3600	3700	10900B	8700	10900	10800	4600B	15300	16100	26600B	25100	9700	8200	3200	3000	2900	6400	7900	6300
Selenium	10	3.2	3.2	ND	ND	ND	ND	ND	ND	ND	ND	3.1J	ND	ND	4.6	3.7	4	ND	0.64J	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20000	16000	16500	19300	17900	27700	27400	22700	262000	271000	40800	38200	17200	24400	13400	14100	13800	53200	62800	51200
Thallium		ND	0.035J	ND	0.036J	ND	0.025J	ND	0.026J	0.035J	ND	ND	ND	0.11J	ND	0.053J	0.042J	ND	0.14J	ND
Vanadium		ND	ND	ND	ND	ND	ND	ND	ND	1.7J	ND	ND	ND	ND	ND	ND	ND	ND	1.2J	ND
Zinc		8.4J	10.8	ND	3.6J	ND	ND	ND	ND	20.2	ND	ND	5.9J	2.9J	ND	5.8J	3.9J	ND	6.2J	ND
Dissolved Metals																				
Aluminum, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62	ND	ND
Antimony, Dissolved	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47J
Arsenic, Dissolved	25	ND	ND	2.8	3.7	1.5	1.3	2.7	35.3	20.1	1.1	1.6	14.5	3.5	ND	ND	ND	0.31J	0.32J	ND
Barium, Dissolved	1000	93.4	82	134	125B	221	215B	169	329	331	178	177	197	264	107	94	95.9	99.6	108.0	100
Beryllium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	0.045J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium, Dissolved	5	ND	ND	ND	0.074JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium, Dissolved		93000	84800	152000	116000	127000	121000	111000	214000	176000	167000	173000	107000	104000	77000	69100	64500	142000	130000	144000
Chromium, Dissolved	50	ND	ND	1.1J	ND	2.7	ND	ND	ND	0.45J	ND	0.54J	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt, Dissolved		0.092J	0.16J	0.34	0.42	0.25J	0.3	0.43	0.45	0.68	0.52	0.77	0.71	1.3	0.061J	0.32	0.13J	0.25J	0.36	0.24J
Copper, Dissolved	200	1.9	1.1	0.71J	0.6JB	ND	0.37JB	0.75J	1.4	3.2	0.38J	0.66J	0.29J	0.37J	1.1	1.4	1	1.1	1.8	0.8J
Iron, Dissolved	300	ND	ND	5500B	4700	40100	41600	6800B	53000	46400	26000B	29600	41600	9100	ND	ND	20J	40J	27J	ND
Lead, Dissolved	25	ND	0.27J	ND	ND	0.7J	0.85JB	ND	ND	ND	0.83J	1.1	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium, Dissolved		12600	11700	15100	11500	15700	14900	9100	39900	36100	11900	12700	14300	13600	10500	9700	9200	16100.0	15400	15400
Manganese, Dissolved	300	ND	0.83J	638	487B	3210	2700B	1060	3430	2820	2020	1630	5080	3050	ND	4.5	1.6	3.7	2.8	1.2
Mercury, Dissolved	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, Dissolved	100	2.8	4.1	3.9	4.4B	2.9	3.4B	5.1	4.4	8.9	4	7.8	4.4	4.2	2.2	3.1	3	3.8	6.6	4
Potassium, Dissolved		3500	3300	10700B	8700	10300	11000	4300B	15800	15400	24600B	26600	10500	7400	2900	2800	2700	7000.0	6400	6200
Selenium, Dissolved	10	3.5	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3	3.4	3.5	ND	0.6J	ND
Silver, Dissolved	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, Dissolved	20000	16300	13800	19300	17600	26200	27400	21400	268000	243000	37800	40900	16300	21800	13000	13400	12500	66400.0	54900	48700
Thallium, Dissolved		ND	ND	ND	ND	ND	ND	ND	0.052J	ND	ND	ND	ND	ND	ND	ND	ND	0.034J	ND	0.019J
Vanadium, Dissolved		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc, Dissolved		10.4	9.7J	ND	4.9J	ND	ND	7.6J	3 J	ND	ND	ND	3.8J	ND	ND	4.5J	3.1J	ND	3.6J	ND
Pesticides																				
4,4'-DDD	0.3	ND	ND	ND	ND	ND	0.0054	0.00057J	ND	ND	ND	0.0011J	ND	ND	0.00024 J	ND	ND	ND	0.0015	ND
4,4'-DDE	0.2	ND	ND	ND	ND	0.00018J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00086	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	0.01	ND	ND	ND	ND	0.00035J	ND	ND	ND	0.0025J	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.04	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	0.04	ND	ND	ND	ND	0.0035	0.0098	ND	0.0043	0.0028J	0.003	0.0047	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 15. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
		9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Endosulfan I		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	0.0016	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ND	ND	0.002	ND	ND	ND	0.0046	ND	0.0072	ND	ND	ND	ND	0.0013	ND	ND	ND	ND	ND	ND
Endrin aldehyde	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0079	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	0.00042J	ND	ND	ND	ND	ND	ND	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCBs																				
PCB-1016 (2)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221 (2)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232 (2)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242 (2)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248 (2)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254 (2)		ND	0.22	ND	0.16	ND	ND	ND	0.85	ND	0.034J	ND	ND	0.093	ND	0.23	0.26	ND	0.17	ND
PCB-1260 (2)		ND	0.23	ND	0.14	ND	0.13	ND	ND	0.45	ND	0.078	ND	0.063	ND	0.22	0.2	ND	0.15	ND
PCB-1262 (2)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1268 (2)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated biphenyls, Total	0.09	ND	0.45	ND	0.3	ND	0.13	ND	0.85	0.45	ND	0.078	ND	0.16	ND	0.45	0.46	ND	0.32	ND
VOCs																				
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	0.0006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9J	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone		3.8	ND	2.9	ND	ND	4	3.6	ND	15	78	14	3.7	ND	3.4	ND	ND	4.4	ND	3.8
Benzene	1	ND	ND	ND	0.19J	6.1	7.9	ND	0.21J	0.53	0.62	0.94	ND	1.2	ND	0.63	0.44J	ND	0.87	ND
Bromodichloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	0.58	0.39J	ND	0.54	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46J	ND	ND	ND	ND	0.31J	ND
cis-1,3-Dichloropropene (3)	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	21	24	ND	13	15	51	58	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 15. Groundwater Analytical Results

Analyte	Part 703 Groundwater A Standard	MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
		9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Isopropylbenzene	5	ND	ND	ND	ND	1.1	0.99	ND	8.7	ND	4.1	3.3	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether		ND	ND	0.3J	0.31J	0.17J	ND	ND	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	ND	ND	24	20	ND	9.5	7.5	62	57	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	0.21J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46J	ND	ND	ND	ND	0.32J	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	0.36J	1	1.1	ND	0.37J	0.53	1.1	1.1	ND	1.3	ND	0.99	0.74J	ND	1	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene (3)	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	5	ND	ND	ND	ND	1.6	1.9	ND	1.1	1.1	2.1	3.2	ND	0.33J	ND	ND	ND	ND	ND	ND
SVOCs																				
2,4,5-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol (1)	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol (1)	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol (1)	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		ND	0.062JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.072J	ND	ND	ND	ND	ND
2-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		ND	ND	ND	ND	ND	2.2J	ND	5 J	2.2J	2.6J	3.4J	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		ND	ND	ND	ND	4.4J	ND	ND	3.4 J	1.1J	0.37J	0.91J	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroisopropyl) ether	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 15. Groundwater Analytical Results

		MW-2		MW-3		MW-4		MW-7	MW-10		MW-11		MW-13		MW-14		MW-14 DUP	UMW-D		UMW-D DUP
Analyte	Part 703 Groundwater A Standard	9/13/17	10/25/17	9/14/17	10/26/17	9/14/17	10/26/17	9/14/17	9/15/17	10/27/17	9/14/17	10/27/17	9/12/17	10/25/17	9/13/17	10/25/17	10/25/17	9/12/17	10/25/17	9/12/17
Dibenz(a,h)anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran		ND	ND	ND	ND	4.8J	1.6J	ND	3.1 J	2.2J	2.2J	3.5J	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate		0.081J	ND	0.082J	0.087J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13J	ND	ND	0.081J	ND	0.084J
Dimethyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		ND	ND	ND	ND	ND	3.4J	ND	7.9 J	4.7J	4.2J	6.4J	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		0.16JB	0.24JB	0.081 JB	0.09JB	ND	ND	0.078 JB	ND	ND	ND	ND	0.092 J B	0.12JB	0.16 JB	0.13JB	0.17JB	0.094J B	0.2JB	0.15JB
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (1)	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	15B	ND	ND	8 J B	3.9J	1.4JB	3.1J	ND	ND	ND	ND	ND	ND	ND	ND
Phenol (1)	1	ND	0.26J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18J	ND	0.29J	0.18J	ND	1.5	ND
Pyrene		ND	ND	ND	ND	7.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH																				
GRO (C6-C10)		ND	ND	ND	ND	390B	290	ND	350B	690	780B	2600	ND	8.3J	ND	5.8J	ND	ND	7.7J	ND
DRO (C10-C28)		ND	ND	ND	ND	9200	5000	ND	69000	3400	3900	20000	ND	ND	ND	ND	ND	ND	ND	ND

(1) Based on total phenols standard
(2) See total standard
(3) cis and trans-1,3-dichloropropene standard is total
(4) All results in ppb.

Table 16. Soil Vapor Analytical Results

Analyses	Detection Limit	NYSDOH Sub-Slab Screening Value ($\mu\text{g}/\text{m}^3$) ^a	SV1	SV2	SV3	SV3 DUP	SV4	SV5	SV6	SV7	SV8	AA-01
1,1,1-Trichloroethane	0.82	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.82		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.61		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.59	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.74		5.3	7.5	4.3	4.5	ND	ND	ND	ND	3.2	1.1
1,2-Dibromoethane	1.2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.9		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.61		ND	0.73	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.69		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.74		1.1	1.5	0.88	0.98	2.3	1.6	2.3	ND	0.79	ND
1,3-butadiene	0.33		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.9		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.9		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	1.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2,4-trimethylpentane	0.7		ND	ND	0.75	0.98	ND	0.7	ND	ND	ND	ND
4-ethyltoluene	0.74		1	1.7	1	1	2.5	1.9	2.9	ND	0.84	ND
Acetone	0.71		47	58	54	46	560	81	840	500	100	39
Allyl chloride	0.47		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.48		0.73	1.3	1	1	9.6	1.1	13	15	0.93	0.45J
Benzyl chloride	0.86		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.58		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.47		0.56	0.87	1	1.1	19	0.81	72	5.4	1.5	ND
Carbon tetrachloride	0.94	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63J
Chlorobenzene	0.69		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.73		ND	1.4	0.63J	0.59J	1.8	ND	0.93	1.5	ND	ND
Chloromethane	0.31		1.3	1.7	2.9	1.4	ND	ND	ND	ND	ND	1.3
cis-1,2-Dichloroethene	0.59	6	ND	ND	0.4J	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.68		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	0.52		0.62	1.8	0.96	0.76	8.3J	0.55	15	3.6	ND	ND
Dibromochloromethane	1.3		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl acetate	0.54		1.1	2	1.2	1.2	ND	0.83	17	ND	1.2	ND
Ethylbenzene	0.65		4	16	5.9	5.8	9	6.4	15	33	2.9	ND
Freon 11	0.84		1.7	1.9	1.7	1.7	2.1	1.7	3.4	ND	1.6	2
Freon 113	1.1		ND	ND	ND	ND	0.92J	0.77J	ND	ND	0.84J	0.77J
Freon 114	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 12	0.74		2.7	3.1	2.9	2.8	ND	2.6	ND	1.6	ND	3.2
Heptane	0.61		16	31	5.9	5.9	18	2.3	34	22	ND	0.45J
Hexachloro-1,3-butadiene	1.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	0.53		1.1	1.4	1.4	1.6	23	0.95	50	46	0.88	0.56
Isopropyl alcohol	0.37		3.6	3.3	3.2	1.8	9.3	1.3	5	ND	1.7	1.8
m&p-Xylene	1.3		13	36	15	14	27	17	37	76	6.9	0.52J
Methyl Butyl Ketone	1.2		1.8	4.5	4.9	3.9	11J	18J	32	ND	8.5	ND
Methyl Ethyl Ketone	0.88		11J	19	20	17	75	75	130	66	25	1.9
Methyl Isobutyl Ketone	1.2		4	ND	2.3	1.6	2	0.61J	2.7	ND	ND	ND
Methyl tert-butyl ether	0.54		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.52	100	3.8	2.7	1.7	2.4	5.3	2.5	4.1	4.2	5.1	5.7
o-Xylene	0.65		5.7	14	6.3	6.1	13	7.3	17	24	3.4	ND
Propylene	0.26		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.64		4.6	22	9.4	9.4	16	14	26	ND	5.3	ND
Tetrachloroethylene	1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	0.44		0.35J	0.83	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	0.57		120	160	55	56	51	20	49	35	9.8J	1.2
trans-1,2-Dichloroethene	0.59		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.68		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.81	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	0.53		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Bromide	0.66		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.38	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

^a = The lowest sub-slab vapor concentration from the relevant NYSDOH decision matrix is used here for initial comparison purposes only.

APPENDIX F
HUMAN HEALTH EXPOSURE ASSESSMENT
(HHEA)



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A Woman Owned Business Enterprise (WBE)

HUMAN HEALTH EXPOSURE ASSESSMENT (HHEA)

**South Island Apartments Site
1 Osgood Avenue/Center Island,
Town of Green Island, Albany County, New York
BCP Site # C401074**

November 2017

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Envirospec Engineering Project E17-1600

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1.0 INTRODUCTION

A Qualitative Human Health Exposure Assessment was completed based on the data collected during the Remedial Investigation (RI). The assessment was completed based on the final remedy and development plan for the site, which will include an engineered cover for the site. The cover system will include a retaining wall, building foundations, at least two feet of clean fill and an asphalt cover. The details of the human health exposure assessment are discussed in the following sections.

2.0 CONTAMINANTS OF CONCERN

The primary contaminants of concern (COCs) at this site based on historical data and the 2017 RI investigation are metals, specifically lead, mercury, and arsenic, and SVOCs. There were isolated exceedances in groundwater for some VOCs, one location with PCBs, and three locations with low levels of pesticides. During the second sampling round, exceedances for total PCBs were observed in seven (7) wells. Total PCBs, however, were also detected at a similar level in the field equipment blank. This indicates possible contamination of equipment from the lab. Alternatively, the low levels could be attributed to the quality of the Hudson River, as PCBs were not a contaminant of concern across the site. Table 1 provides a list of compounds, including whether exceedances were detected above groundwater standards, RRSCOs, and/or CSCOs.

Table 1. Summary of Compounds Detected

Analyte	Exceedance(s) of Part 703 Groundwater Standard	Exceedance(s) of RRSCO	Exceedance(s) of CSCO
Metals			
Arsenic	Yes	Yes	Yes
Barium	No	Yes	Yes
Cadmium	No	Yes	No
Copper	No	Yes	Yes
Lead	No	Yes	Yes
Manganese	Yes	Yes	No
Mercury	No	Yes	Yes
SVOCs			
Benzo(a)anthracene	No	Yes	Yes



Benzo(a)pyrene	No	Yes	Yes
Benzo(b)fluoranthene	No	Yes	Yes
Benzo(k)fluoranthene	No	Yes	No
Chrysene	No	Yes	No
Dibenz(a,h)anthracene	No	Yes	Yes
Indeno(1,2,3-cd)pyrene	No	Yes	No
VOCs			
Benzene	Yes	No	No
Isopropylbenzene	Yes	No	No
SVOCs			
Phenol	Yes	No	No
PCBs and Pesticides			
Aldrin	Yes	No	No
Endrin	Yes	No	No
Total PCBs	Yes	No	No

Wells in the former loading rack area of the site are also impacted by Light Non-Aqueous Phase Liquid (LNAPL). Drawing R-6 in the RI Report shows the result of the data collected with the oil-water interface probe during the RI. The thicknesses of LNAPL for impacted wells are also summarized in Table 2.

Table 2. LNAPL thickness in well locations

Well	Thickness of LNAPL layer (ft)
MW-4	0.01
MW-5	1.23
MW-8	0.1
MW-9	0.1
MW-10	0.1
MW-11	0.1
MW-12	0.05
MW-16	0.05
MW-17	0.2
MW-18	0.45
MW-20	0.1



MW-21	0.1
MW-22	3.7
MW-23	1
MW-24	0.35
MW-25	2.1
MW-26	0.85
MW-27	0.2
MW-28	1.2

3.0 CHEMICAL FATE AND TRANSPORT

Based on the RI investigation, the primary concerns at this site in evaluating chemical fate and transport are metals, SVOCs, VOCs, and LNAPL. PCBs and pesticides are not considered a concern as they were not detected in soil above residential cleanup standards and are not considered to be associated with the fill at the site. Although VOCs were not detected above cleanup standards, they are evaluated here due to the former use of the site as a petroleum terminal. Each of these contaminant groups are discussed in the following sections.

3.1 Metals

Exceedances of RRSCOs and CSCOs for metals are primarily found in surface and subsurface soils with very few encountered in the deeper soil samples collected at the groundwater interface. There were no exceedances of groundwater standards for lead or mercury in the onsite monitoring wells sampled during the RI. The data collected to date does not indicate that migration of metals to groundwater is a significant transport pathway at this site, and contamination appears to be confined to the shallow soils.

3.2 SVOCs

Exceedances of RRSCOs and CSCOs for SVOCs are observed in surface and shallow subsurface soils. No exceedances were observed in soils sampled at the groundwater interface, and only one very low level exceedance of phenol was observed in one well during the second groundwater sampling event. Based on these results, SVOCs appear to be associated with fill material with no significant migration to other environmental media observed.

3.3 VOCs

No exceedances of soil cleanup objectives were observed for VOCs. Two groundwater exceedances were observed in the former loading rack area, one for benzene and one for isopropylbenzene. One location outside of the former loading rack area (MW-13) also showed an



exceedance for benzene in groundwater during the second sampling round. Both of these compounds are likely associated with historical usage of this area of the site. Soil vapor sampling across the site indicated the presence of BTEX (shown in Drawing R-7), which indicates that volatilization of BTEX from subsurface media is a complete migration pathway at this site.

3.4 PCBs and Pesticides

No exceedances of soil cleanup objectives were observed for PCBs or pesticides at this site. During the first groundwater sampling round, one exceedance of total PCBs and one exceedance for endrin were observed in MW-10, which is located near the loading rack area. During the second groundwater sampling round, seven (7) locations showed exceedances for total PCBs, three (3) locations showed exceedances for endrin, and one (1) location showed an exceedance for aldrin.

These detections are not consistent with soil data collected at this site. The PCB exceedances are likely due to the proximity to the Hudson River and intrusion of Hudson River water into groundwater due to tidal influences. There are no other indications at this site that PCBs are a contaminant of concern. The exceedances of aldrin and endrin were very low and did not correlate to soil data.

3.5 LNAPL

As shown in Table 2 and Drawing R-6, some wells onsite show a significant amount of LNAPL based on measurements completed with the oil-water interface probe and visual observations. The presence of LNAPL is further supported by elevated TPH data in soil samples near the former loading area and near MW-5.

There was no indication of LNAPL seeps in the Hudson River near the former loading rack area based on the sediment pore water sample data, so migration of LNAPL offsite does not appear to be a significant transport pathway. Some elevated TPH readings were also observed in soil borings in the former containment area of the site, including SB-3.

4.0 EXPOSURE PATHWAYS AND ROUTES OF EXPOSURE

The potential exposure pathways and routes of exposure are summarized in Table 3 and discussed for each exposure medium in the following sections. The conclusions regarding the potential for exposure are based on the development plan for the site where an engineered cover system will be installed across the entire site, including the banks. A Site Management Plan (SMP) will be developed and implemented long term that will address ground intrusive activities



following completion of remedial activities.

4.1 Surface Soil

The potential exposure routes considered for surface soils include dermal exposure, incidental ingestion, and inhalation of particulates. However, given that an engineered cover system will be installed across the site in all areas where contaminated surface soils could be exposed, the surface soils would not be contaminated after development and the exposure routes would not be relevant.

4.2 Subsurface Soil

The potential exposure routes considered for subsurface soils include dermal exposure, incidental ingestion, and inhalation of particulates.

4.2.1 Dermal Exposure

Potential dermal exposure to subsurface soils would be limited to onsite workers involved in ground-intrusive activities. This risk would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and use of appropriate decontamination procedures.

4.2.2 Incidental Ingestion

Potential incidental ingestion of subsurface soils would be limited to onsite workers involved in ground-intrusive activities. This risk would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and use of appropriate decontamination procedures.

4.2.3 Inhalation of Particulates

There is a potential for inhalation of particulates from contaminated subsurface soils during ground-intrusive activities. This risk would be addressed through air monitoring during any excavation or other ground-intrusive work and implementation of dust mitigation approaches, such as the usage of water trucks, as necessary.

4.3 Groundwater

The potential exposure routes for groundwater considered in this assessment include ingestion, dermal contact, and inhalation exposure. The primary areas of concern for groundwater would be the former loading rack area and along the roadway extending north from the former loading



rack to MW-5.

4.3.1 Ingestion of Groundwater

Groundwater at this site is not being used as a drinking water source. There is no plan to install private wells on the property and an environmental easement will be placed on the site prohibiting groundwater use. There is a potential risk for incidental ingestion of groundwater during ground-intrusive activities if deep excavations are completed (greater than a depth of approximately 22 ft bgs) or if groundwater were actively being pumped from the subsurface. These risks would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and the use of appropriate decontamination procedures.

4.3.2 Dermal Contact

The potential risk for direct dermal contact with groundwater at the site would be during active pumping of groundwater from onsite wells or during deep excavations, as discussed in Section 4.3.1. These risks would be minimized through proper training of workers completing the work, the use of proper PPE during work activities, and the use of appropriate decontamination procedures.

4.3.3 Inhalation Exposure

The potential risk for direct dermal contact with groundwater at the site would be during active pumping of groundwater from onsite wells or during deep excavations, as discussed in Section 4.3.1. Based on the results of groundwater monitoring, the areas of primary concern for inhalation risks would be the areas impacted by LNAPL, which are shown in Drawing R-6. These risks would be minimized through proper training of workers completing the work and the use of proper PPE during work activities.

4.4 Air

The exposure route of concern for air is the potential for inhalation due to soil vapor intrusion impacts to onsite buildings. Soil vapor sampling was completed at this site, which indicated the presence of contaminants, such as BTEX, that are consistent with the historical usage of the site. As a proactive measure, mitigation systems will be installed in any onsite buildings. Buildings that have parking garages below grade will be equipped with active ventilation systems in the garages that will minimize exposure to potential contamination from subsurface vapors onsite. Any background contamination present in the parking garages due to the operation of vehicles is outside the scope of this exposure assessment. Buildings to be installed on grade will be designed and constructed with a sub slab depressurization system (SSDS). The SSDS will be an



active system designed to mitigate potential soil vapor intrusion.

Table 3. Summary of Human Health Exposure Assessment.

Exposure Media and Route	Human Exposure Assessment
Direct contact with surface soils and incidental ingestion	People will not come into contact with contaminated surface soils after installation of engineered cover.
Direct contact with subsurface soils and incidental ingestion	Potential risk for contact when ground-intrusive work is completed onsite.
Ingestion of groundwater	Contaminated groundwater is not being used for drinking water or ancillary uses. Private wells will not be installed on the property. Potential of incidental ingestion during handling of groundwater during site activities.
Direct contact with groundwater	Potential risk for contact (via dermal and/or inhalation exposure) only if actively pumping/removing groundwater from onsite wells or during deep excavations. Risk of contact during other ground-intrusive activities would be minimal given range of depth to groundwater of 22 to 32.7 feet bgs.
Inhalation of air (exposures related to soil vapor intrusion)	A mitigation system will be installed in any onsite buildings as a proactive measure. Buildings with parking garages below grade will be equipped with active ventilation systems. Buildings on grade will be constructed with active SSDSs,
Inhalation of particulates	Potential risk during ground-intrusive work. Air monitoring will be completed during excavation and other ground intrusive activities, as necessary.

5.0 RECEPTOR POPULATIONS

Based on the evaluation of the potential exposure pathways and routes at this site, the primary potentially exposed receptor populations include the following:



- Residential exposures, including potential exposure risks due to vapor intrusion and potential inhalation of particulates during ground-intrusive activities
- Onsite workers, including potential exposures during ground-intrusive activities

The planned mitigation of these exposure risks were discussed in Section 4.0 of this exposure assessment.

Other potential receptor populations could include patrons of commercial establishments onsite and people involved in recreational activities. However, the duration of exposure would be significantly shorter than onsite residents and would be mitigated through the same actions as discussed for potential residential exposures.

6.0 SUMMARY AND CONCLUSIONS

The primary COCs at this site are metals, including lead, mercury, and arsenic, and SVOCs. The presence of LNAPL in the loading rack area is also a concern in evaluating potential exposure routes. Given the plan to install an engineered cover of two (2) feet of clean fill across the site and the depth to groundwater of at least 22 feet bgs, potential human exposure risks to contamination at this site would be minimal and limited to potential soil vapor intrusion exposure, which will be addressed through installation of mitigation systems, and potential exposures during onsite ground-intrusive work, which will be addressed through air monitoring and proper training and health and safety procedures.



APPENDIX G
FISH AND WILDLIFE RESOURCE IMPACT
ANALYSIS (FWRIA)



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A Woman Owned Business Enterprise (WBE)

FISH AND WILDLIFE RESOURCE IMPACT ANALYSIS (FWRIA)

**South Island Apartments Site
1 Osgood Avenue/Center Island,
Town of Green Island, Albany County, New York
BCP Site # C401074**

November 2017

Prepared for:
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Envirospec Engineering Project E17-1600

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Figure 3 Rare Species Locations Map



1.0 INTRODUCTION

A Fish and Wildlife Resources Impact Analysis (FWRIA) was completed for the site. Potential exposure pathways and potential impact on nearby resources was evaluated. The supporting information used to complete the analysis and form the conclusions regarding the potential for impacts are addressed in the following sections.

2.0 SITE MAPS

2.1 Topographic Map

The topographic maps of the site are provided in Figures 1 and 2. The maps illustrate areas on the National Wetlands Inventory and other significant habitats and waterways within one-half (1/2) mile of the site.

2.1.1 Habitats supporting rare, threatened or endangered species

According to Environmental Resource Mapper, habitats in the area include riverine, freshwater forested, and shrub wetland areas.

2.1.2 NYS-regulated wetlands

There are no NYS-regulated wetlands. However, there are two areas and a perimeter of a third freshwater forested/ shrub wetlands on the national inventory of wetlands.

2.1.3 Waterways

The primary waterway within one-half mile of the site is the Hudson River, which is Classification C. According to the Environmental Resource Mapper, there is also a Classification D stream and a Classification C stream within the one-half mile distance. The Hudson River is also a significant coastal fish and wildlife habitat area.

2.1.4 State Forests and Nature Preserves

There are no state forests or nature preserves located within one-half mile of the site.

2.2 Covertypes Maps

The covertype maps are provided in Figure 1, 2, and 3 and focus on habitat areas within one-half mile of the site.

2.2.1 Terrestrial Habitats



The site is located in an urban environment. There are trees and shrubs in the area but mostly for privacy/scenery.

2.2.2 Freshwater Habitats

Freshwater habitats within one-half mile of the site include freshwater tidal swamps and wetlands on the national inventory that are not state-regulated.

2.2.3 Rare NYS Ecological Communities

Environmental Resource Mapper indicates that the entire area around the site contains rare ecological communities. Specific plant and animal species expected in this area are discussed in Section 3.0.

3.0 FISH AND WILDLIFE RESOURCES

3.1 Cover Types and Vegetative Species

The soil on the site is essentially bare, with the exception of the bank areas that have trees and understory plants. The soil on site consists mainly of a historic fill material with rocks, broken glass, bricks, debris and gravel. The surrounding area of the site is primarily an urban environment. However, the plant species that could be expected within one-quarter mile of the site, given the proximity to the Hudson River, are summarized below (USFWS 1997):

- Endangered:: Hudson River water nymph, American waterwort, blunt-lobe grape fern
- Threatened: Estuary beggar-ticks, golden seal, and heartleaf plantain
- Rare: Bickell's Sedge, Davis Sedge, Glaucous Sedge, Mock-pennyroyal, Schweinitz's flatsedge, and Weak Stellate Sedge
- Other vegetative species: water milfoil, water celery, water chestnut, common reed, narrow-leaved cattail, pondweeds, bur-reed, red maple, black ash, slippery elm, alders, arrowwood, poison ivy, ferns, knotweeds, and spotted jewelweed

3.2 Fish and Wildlife Species

The types of fish and wildlife species expected within one-quarter mile of the site include the following (USFWS 1997):

- Endangered: Peregrine falcons, shortnosed sturgeon, atlantic sturgeon, Indiana Bat, Karner blue butterfly, and short-eared owl
- Threatened: American bald eagle, Northern Harrier, and Upland sandpiper



- Species of special concern: Spotted turtle, wood turtle, Cooper's hawk, common nighthawk, vesper sparrow
- Other fish and wildlife species: American shad, American eel, beetles, black bass, black crappie, black ducks, blue herring, brown billhead, caddisfly, Canadian geese, Carolina locusts, clams, common carp, coyote, crayfish, gnats, goldfish, herons, mallards, mayflies, midges, mosquitoes, mussels, northern pike, passerine birds, pumpkinseed, raptors, rodents, shore birds, smallmouth bass, snails, spiders, squirrels, striped bass, stoneflies, sunfish, true flies, waterfowl, white catfish, white sucker, yellow perch.

3.3 Observations of Stress

There are potential observations of stress based on limited plant growth and the condition of trees previously present on the banks of the site. This is likely due to the general condition of the fill material, which includes a significant amount of gravel and brick. This material is not conducive to healthy plant growth.

3.4 Fish or Wildlife Consumption Advisories

The Hudson River in the area of the site has a fish consumption advisory related to PCBs. The details of this advisory are as follows (NYSDOH 2017):

- Women under 50 and children under 15 should not eat any fish from the Hudson River.
- Men over 15 and Women over 50 – one meal per month of one of the following species: alewife, blue herring, rock bass, or yellow perch. They should not consume any other species of fish from this section of the Hudson River.

3.5 Ability to Support Fish and Wildlife

The area is known to be able to support fish and wildlife based on field observations of American bald eagles, coyotes, rabbits, raccoons and squirrels in the area. The Hudson River is a known habitat area for aquatic species.

3.6 Use of Resources by Humans

The site area will be developed for mixed commercial and residential use, and hunting will not be occurring on the property. The Hudson River is used for recreational activities and fishing, though there are limitations on fish consumption in this area, as discussed in Section 3.4.

4.0 PATHWAY ANALYSIS

Potential ecological exposure pathways are summarized in Table 1. The table summarizes



whether a pathway could be complete at this site. No conclusions are provided in this table regarding the potential for adverse impacts or the significance of potential exposure.

Table 1. Review of Potential Exposure Pathways.

Medium	Exposure	Route of Exposure	Pathway	Pathway Potentially Complete
Surface Soil	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Surface Soil	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Subsurface Soil	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms	Yes. Ingestion is possible by soil macro-organisms and micro-organisms.
Subsurface Soil	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	Yes. Dermal contact with contaminated soil is possible by soil macro-organisms and micro-organisms.
Bank Surface Soils	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Bank Surface Soils	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	No. The site will have an engineered cover system. Surface soils post development will not be contaminated.
Bank Subsurface Soils	Direct Contact	Ingestion	Ingestion of soils containing contaminants by wildlife and soil organisms.	Yes. Ingestion is possible by soil macro-organisms and micro-organisms.
Bank Subsurface Soils	Direct Contact	Dermal	Dermal contact with soil containing contaminants by wildlife and soil organisms.	Yes. Dermal contact with contaminated soil is possible by soil macro-organisms and micro-organisms.
Sediments	Direct Contact	Ingestion	Ingestion of sediments containing contaminants by wildlife and fish.	Yes. Ingestion of contaminants in sediment by wildlife and fish is possible
Sediments	Direct Contact	Dermal	Dermal contact with sediments containing contaminants by wildlife	Yea. Dermal contact with sediments containing contaminants by wildlife and fish.



Medium	Exposure	Route of Exposure	Pathway	Pathway Potentially Complete
			and fish.	
Plants	Soil to Plants that grow below cover (Bio-concentration)	Ingestion	Plants incorporating contaminants from soil are ingested by wildlife and soil organisms.	Yes. Wildlife and soil organisms may ingest contaminated plant biomass.
Soil Fauna	Soil to Soil Fauna (Bio-concentration)	Ingestion	Soil fauna (e.g. insects, worms, etc.) which have incorporated contaminants from soil are consumed by wildlife.	Yes. Soil fauna having incorporated contaminants from contaminated soil may be ingested by wildlife.
Sediment Fauna	Sediment to Sediment Fauna (Bio-concentration)	Ingestion	Sediment fauna which have incorporated contaminants from the sediment are consumed by wildlife.	Yes. Sediment fauna which have incorporated the contaminants from the sediment may be consumed by terrestrial and aquatic wildlife.
Prey Animals	Plants to Prey Animals (Bio-Magnification) Mercury	Ingestion	Prey animals which have ingested contaminants from land and aquatic plants are consumed by predators.	Yes. Prey animals which have ingested the contaminants from the land and aquatic plants may be consumed by predators.
Prey Animals	Soil Fauna to Prey Animals (Bio-concentration)	Ingestion	Prey animals which have ingested soil fauna containing the contaminants may be consumed by predators.	Yes. Prey animals which have ingested soil fauna containing the contaminants may be consumed by predators.
Prey Animals	Sediment Fauna to Prey Animals (Bio-magnification) Mercury	Ingestion	Prey animals which have ingested sediment fauna containing contaminants are consumed by predators.	Yes. Prey animals which have ingested sediment fauna containing contaminants may be consumed by predators.

Surface soils, both on the main part of the site and the bank, will be covered with at least two (2) feet of clean fill, a retaining wall, building foundations or an asphalt cover. Therefore, direct contact with soils will not be a concern post development.

The potentially complete pathways that could lead to bioaccumulation of contaminants through the terrestrial food chain include the following:

- Ingestion of soil organisms that have consumed contaminants
- Ingestion of plants that have accumulated contaminants through root systems that extend below the two feet of clean fill material.
- Direct ingestion of contaminated sediment.



- Ingestion of sediment fauna that have consumed contaminated sediment
- Predators consuming prey that has ingested contaminants through ingestion of soil organisms, sediment, sediment fauna, and/or plants

The potential for exposure related to these pathways, with the exception of contaminated sediments, would be minimized or eliminated by the installation of the engineered cover across the site. However, soil organisms and some plant root systems can be exposed to soils below two feet into the subsurface, so these pathways cannot be completely eliminated

The potentially complete pathways that could lead to bioaccumulation of contaminants through the aquatic food chain include the following:

- Direct ingestion of contaminated sediments
- Ingestion of sediment fauna that have ingested contaminated sediments
- Predators consuming prey that has ingested contamination through ingestion of sediment and/or sediment fauna

To determine the significance of these pathways, the specific contaminants, their environmental fate, and toxicity need to be considered. These considerations are discussed further in Section 5.0.

5.0 CONTAMINANTS OF ECOLOGICAL CONCERN

To determine the potential contaminants of ecological concern and the likelihood of a potential adverse impact, site data were first compared to relevant standards. The exceedances were then evaluated in the context of the exposure pathways of concern at the site, which were discussed in Section 4, and the toxicity of the contaminants to determine the potential for adverse impacts to fish and wildlife. The results of this evaluation are discussed in the following sections.

5.1 Comparison to Relevant Standards

The data for surface soil, subsurface soil, bank, and sediment samples were compared to the relevant ecological standards. Soil and bank samples were compared to the NYCRR Part 375 SCOs for Protection of Ecological Resources and CP-51 Supplemental SCOs for Protection of Ecological Resources. The results of this comparison are provided in Table 2.

The contaminants at the site are consistent with those found in historical fill. There were no source areas of contamination identified.

Sediment sample results were compared to the SGVs from the NYSDEC *Screening and*



Assessment of Contaminated Sediment (NYSDEC 2014) document. Sediment samples only showed exceedances of SGVs for metals, which are summarized in Table 3. Lead exceeded the Class C SGV (130 mg/kg) at SE-7, where it was detected at 12 mg/kg. The toxic effects of PAHs are expected to be additive, and the sum of the concentrations of PAHs needs to be compared to the SGV of 4 mg/kg. None of the sampling locations exceeded this total value for PAHs.

Table 2. Comparison of soil data to Ecological Soil Cleanup Objectives.

Analyte	Exceeds Ecological SCO in 0 to 6" bank sample(s)?	Exceeds Ecological SCO in 6" to 2' bank sample(s)?	Exceeds Ecological SCO in surface soils sample(s)?	Exceeds Ecological SCO in subsurface soils sample(s)?
Metals				
Aluminum	Yes (2)	Yes (3)	Yes (13)	Yes (18)
Antimony	No	No	No	Yes (2)
Arsenic	Yes (1)	Yes (4)	Yes (8)	Yes (20)
Barium	No	Yes (1)	No	Yes (2)
Cadmium	No	No	No	Yes (1)
Calcium	Yes (7)	Yes (7)	Yes (7)	Yes (18)
Chromium	Yes (9)	Yes (9)	Yes (18)	Yes (36)
Cobalt	Yes (1)	Yes (1)	Yes (2)	No
Copper	Yes (6)	Yes (4)	Yes (11)	Yes (31)
Lead	Yes (8)	Yes (9)	Yes (15)	Yes (33)
Manganese	No	No	Yes (1)	Yes (2)
Mercury	Yes (7)	Yes (8)	Yes (13)	Yes (28)
Nickel	Yes (3)	Yes (3)	Yes (9)	Yes (13)
Selenium	No	No	No	Yes (2)
Silver	Yes (7)	Yes (6)	Yes (12)	Yes (25)
Thallium	No	No	No	Yes (1)
Vanadium	No	No	Yes (3)	Yes (3)
Zinc	Yes (9)	Yes (9)	Yes (16)	Yes (29)
SVOCs				
Benzo(a)pyrene	Yes (1)	Yes (1)	No	Yes (1)
Di-n-butylphthalate	Yes (2)	No	No	No
Pesticides				
4,4'-DDD	Yes (3)	Yes (6)	Yes (3)	Yes (3)



Analyte	Exceeds Ecological SCO in 0 to 6" bank sample(s)?	Exceeds Ecological SCO in 6" to 2' bank sample(s)?	Exceeds Ecological SCO in surface soils sample(s)?	Exceeds Ecological SCO in subsurface soils sample(s)?
4,4'-DDE	No	No	Yes (2)	Yes (1)
4,4'-DDT	Yes (4)	Yes (7)	Yes (5)	Yes (4)
Dieldrin	No	No	Yes (1)	Yes (1)

Table 3. Comparison to Sediment Guidance Values

Analyte	Within Class B SGV Range?	Class C Exceedances
Copper	Yes, 2 locations	No
Lead	Yes, 1 location	Yes, 1 location
Mercury	Yes, 1 location	No
Silver	Yes, 5 locations	No
Zinc	Yes, 1 location	No

5.2 Contaminants Relevant to Exposure Pathways

The contaminants relevant to the potential exposure pathways in each media are discussed in the following sections for soils, bank samples, and sediments.

Table 4. Contaminants Exceeding Standards or Guidance Values

Exposure Medium	Potentially relevant pathways	Contaminants Exceeding Relevant Standards or Guidance Values
Subsurface Soils	- Direct ingestion of contaminants by soil organisms - Dermal contact with contaminants by soil organisms - Accumulation in plants with roots extending below the two (2) foot layer of clean fill - Ingestion of soil organisms by wildlife - Ingestion of plants with roots extending below the two (2) foot layer of clean fill by wildlife - Predators consuming prey that has ingested soil organisms and/or plants	- Metals: aluminum, antimony, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc - SVOCs: Benzo(a)pyrene - Pesticides: 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin
Bank Subsurface Soils	- Direct ingestion of contaminants by soil organisms - Dermal contact with contaminants by soil	- Metals: aluminum, arsenic, barium, calcium, chromium, cobalt, copper, lead, mercury, nickel, silver, and zinc



Exposure Medium	Potentially relevant pathways	Contaminants Exceeding Relevant Standards or Guidance Values
	organisms - Accumulation in plants with roots extending below the two (2) foot layer of clean fill - Ingestion of soil organisms by wildlife - Ingestion of plants with roots extending below the two (2) foot layer of clean fill by wildlife - Predators consuming prey that has ingested soil organisms and/or plants	- SVOCs: Benzo(a)pyrene and di-n-butylphthalate - Pesticides: 4,4'-DDD and 4,4'-DDT
Sediment	- Ingestion of sediments containing contaminants by wildlife and fish. - Dermal contact with sediments containing contaminants by wildlife and fish. - Sediment fauna which have incorporated contaminants from the sediment are consumed by wildlife.	- Metals: Lead

5.2.1 Subsurface Soils

Soils currently at the surface of the site would be covered by at least two (2) feet of clean fill after development or an alternate engineered cover. Therefore, the surface soils after installation of the engineered cover would be clean, and the exceedances observed for surface soils data collected during the RI should only be considered relevant to the subsurface soil exposure pathways, which are summarized in Table 4. The potential contaminants that could be relevant to these pathways are also included in the table. The list of contaminants is based on the exceedances summarized in Table 2 for surface and subsurface sampling data from the RI.

5.2.2 Bank Samples

Soils currently at the surface of the bank would also be covered with at least two (2) feet of clean fill or an alternate engineered cover after development. Therefore, as for the soils across the rest of the site, only the subsurface soil exposure pathways are potentially complete at this site, which are also provided in Table 4. The list of contaminants is based on the exceedances summarized in Table 2 for surface and subsurface bank sampling data from the RI.

5.2.3 Sediment Samples

As discussed in Section 5.1, the Class C SGV for lead was exceeded at one location, and some locations showed metals concentrations within the Class B SGV ranges. Potentially relevant pathways for the sediment at this site are summarized in Table 4.



Direct comparison of sediment concentrations to SGV values has limitations, as discussed in the SGV guidance, and should not be used as the only indicator of the potential for adverse effects. The bioavailability of metals is correlated more to the concentrations in interstitial pore water (NYSDEC 2014).

One pore water sample was collected at this site, and no exceedances of the Class C aquatic chronic NYCRR 703.5 surface water standards were observed.

5.3 Potential Effects on Fish and Wildlife

5.3.1 Metals

An overview of the potential effects of the metals listed in Table 4 on fish and wildlife species is provided in Table 5. Effects in the aquatic food chain are only included for lead because no other metals exceeded the Class C SGV.

As discussed in Section 5.2.3, the potential for adverse effects of metals is dependent on the bioavailability of a given metal. The availability of a given metal in the environment is dependent on many factors, such as speciation, the ability of the metal to form complexes or to sorb strongly to subsurface soils or sediments, pH, and redox conditions. Therefore, the potential for toxic effects to fish and wildlife cannot be solely based on comparison to SCOs. The lead levels at the site are consistent with lead levels found in historic fill. No source area of lead was identified. With the engineered cover, the risk to fish and wildlife will be minimized.

5.3.2 SVOCs

An overview of the potential effects of benzo(a)pyrene and di-n-butylphthalate on fish and wildlife species is provided in Table XX5. Though some bioaccumulation in some aquatic species have been observed for both of these compounds, biomagnification in terrestrial food chains is not expected. Bioaccumulation through aquatic food chains is not relevant to these compounds at this site given the lack of exceedances of SGVs. A limited source area of SVOCS was identified at the site. However, the area was small and levels were not significantly elevated. Based on the low levels and limited area identified, SOVCs are not a significant risk to fish and wildlife.

5.3.3 Pesticides

An overview of potential effects of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin on fish and wildlife species is provided in Table 5. Though DDD, DDE, DDT, and dieldrin are known to bioaccumulate and biomagnify through aquatic food chains, this pathway is not relevant at this



site given that exceedances were only observed in soils. There are some indications of bioavailability of DDD, DDE, and DDT to some plants. Dieldrin is known to biomagnify through terrestrial food chains. No source area of pesticides was identified at the site. The levels found were low and pesticides were not identified as a contaminant of concern for this site. Therefore, the risk to fish and wildlife is minimal.

Table 5. Summary of Potential Effects of Contaminants on fish and wildlife.

Analyte	Potential Effects of Contaminant on Fish and Wildlife	References
Aluminum	Does not bioaccumulate to a significant extent.	ATSDR 2008
Antimony	Can accumulate through plant root systems.	ATSDR 2017
Arsenic	Plants can accumulate, but generally at low levels	ATSDR 2007
Barium	Very little accumulation observed in terrestrial plant species.	ATSDR 2007a
Cadmium	Bioaccumulates terrestrial species and plants. Evidence for biomagnification is inconclusive.	ATSDR 2012
Chromium	Not expected to bioaccumulate or biomagnify significantly through terrestrial food chain.	ATSDR 2012a
Cobalt	Can accumulate in roots of plants, but not likely to translocate from root to the above ground plant to significant extent.	ATSDR 2004
Copper	Little evidence of bioaccumulation in low levels of the terrestrial food chain. Biomagnification in the food chain is not expected.	ATSDR 2004a
Lead	Bioconcentration may occur in aquatic species and terrestrial plants and animals, but biomagnification is not expected.	ATSDR 2007b
Mercury	Can accumulate in plants but the availability of mercury to organisms through terrestrial exposure is inconclusive. Can accumulate in earthworms.	WHO 1989
Nickel	Some accumulation in plants has been observed but biomagnification terrestrial food chains not expected.	ATSDR 2005
Selenium	Uptake by plants may be observed.	ATSDR 2003
Silver	Uptake by plants is low. Biomagnification is not expected.	WHO 2002
Thallium	Some accumulation in plants may be observed.	ATSDR 1992



Analyte	Potential Effects of Contaminant on Fish and Wildlife	References
Vanadium	Some accumulation in terrestrial plant roots, with relatively little in aboveground parts of plants. Human studies suggest that biomagnification is unlikely.	ATSDR 2012b
Zinc	Essential nutrient that occurs in tissues of organisms. Biomagnification is not expected.	ATSDR 2005a
Benzo(a)pyrene	Uptake to plants and subsequent biomagnification is low. May be some accumulation through ingestion of soil or soil organisms in terrestrial food chain.	ATSDR 1995
Di-n-butylphthalate	Biomagnification in terrestrial animals is unlikely given ability to metabolize it.	WHO 1997
4,4'-DDD	Bioavailable to plants.	ATSDR 2002a
4,4'-DDE	Bioavailable to plants.	ATSDR 2002a
4,4'-DDT	Bioavailable to plants. Soil bound DDT is bioavailable to earthworms.	ATSDR 2002a
Dieldrin	Bioconcentrates and biomagnifies in terrestrial food chains.	ATSDR 2002

6.0 SUMMARY AND CONCLUSIONS

Though potentially complete pathways were identified in the FWRIA, there were no source areas of contamination identified at the site during the RI. Levels of metals identified were expected, as the site consists primarily of historical fill material. The final remedy for the site will be an engineered cover system which will eliminate the most probable route of exposure for fish and wildlife. Impacts from source contamination to the Hudson River from the site were not identified, as there were no source areas found. The impacts to the Hudson River are those associated with the historical fill and do not require mitigation. Based on these findings, no additional ecological assessment is needed.

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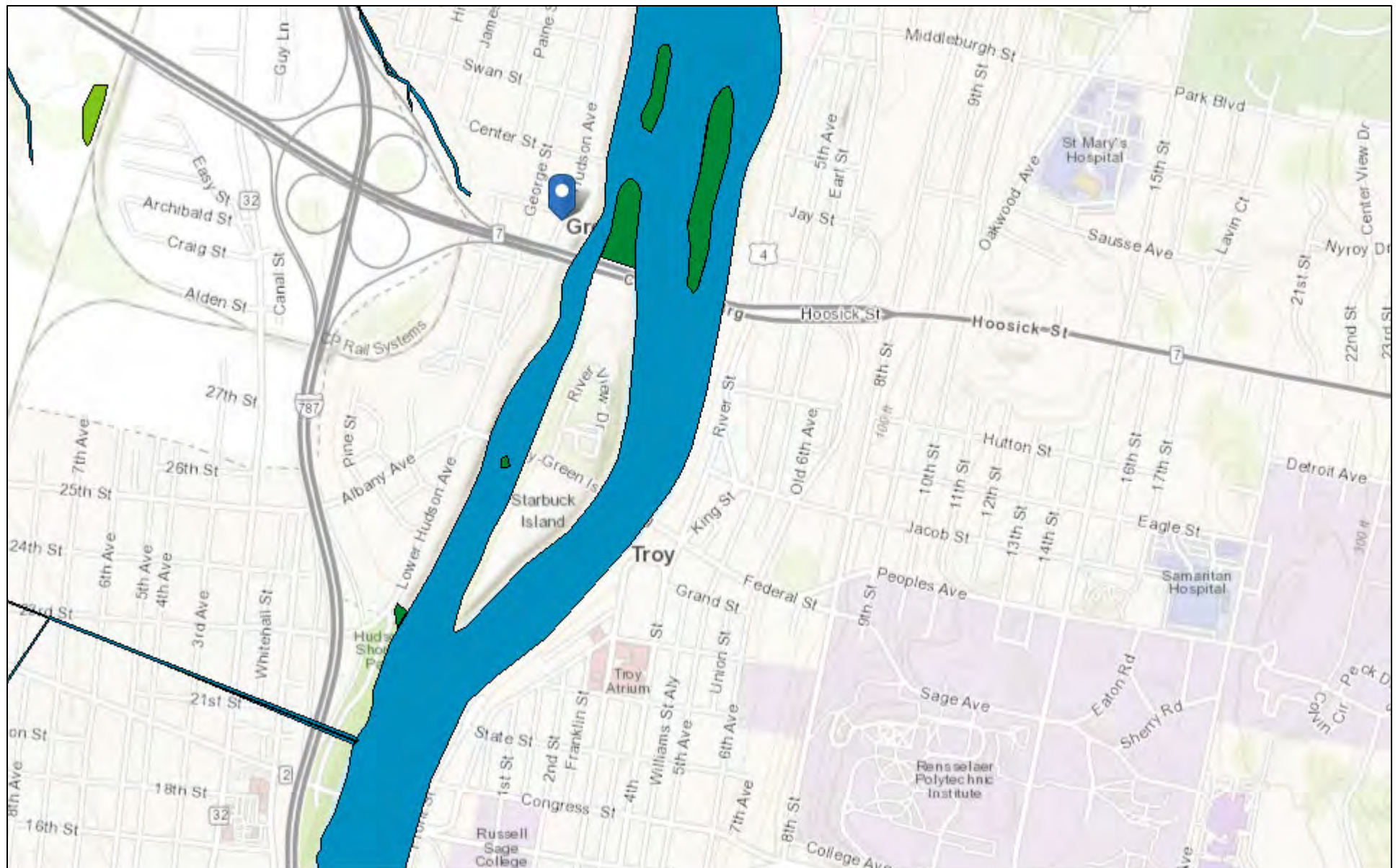
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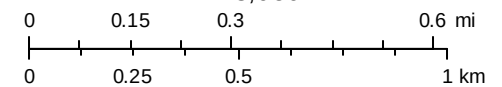


Figure 1 - Environmental Resource Mapper - National Wetlands Inventory



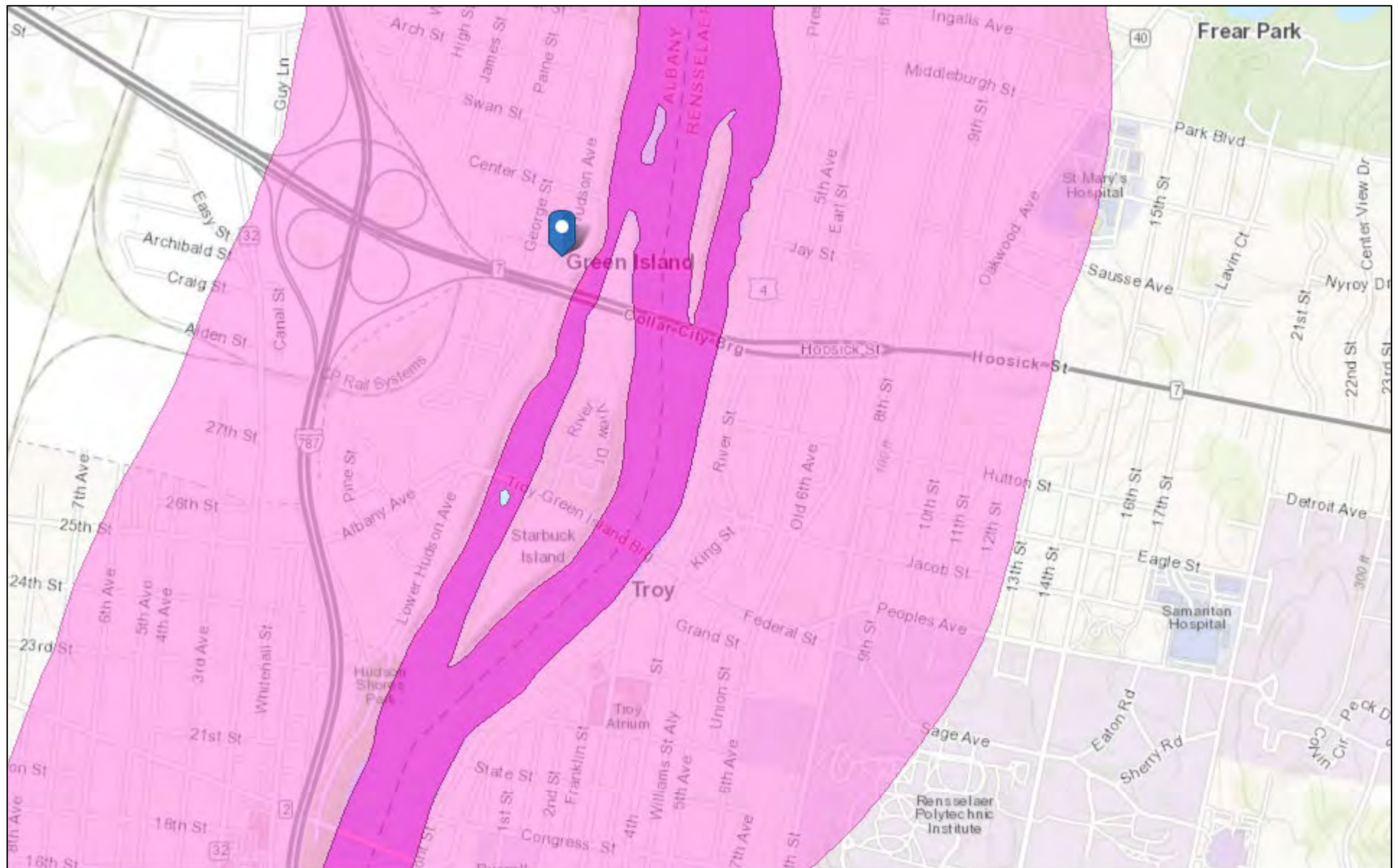
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

1:18,056



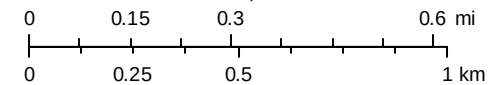
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

Figure 2 - Environmental Resource Mapper - Significant Natural Communities



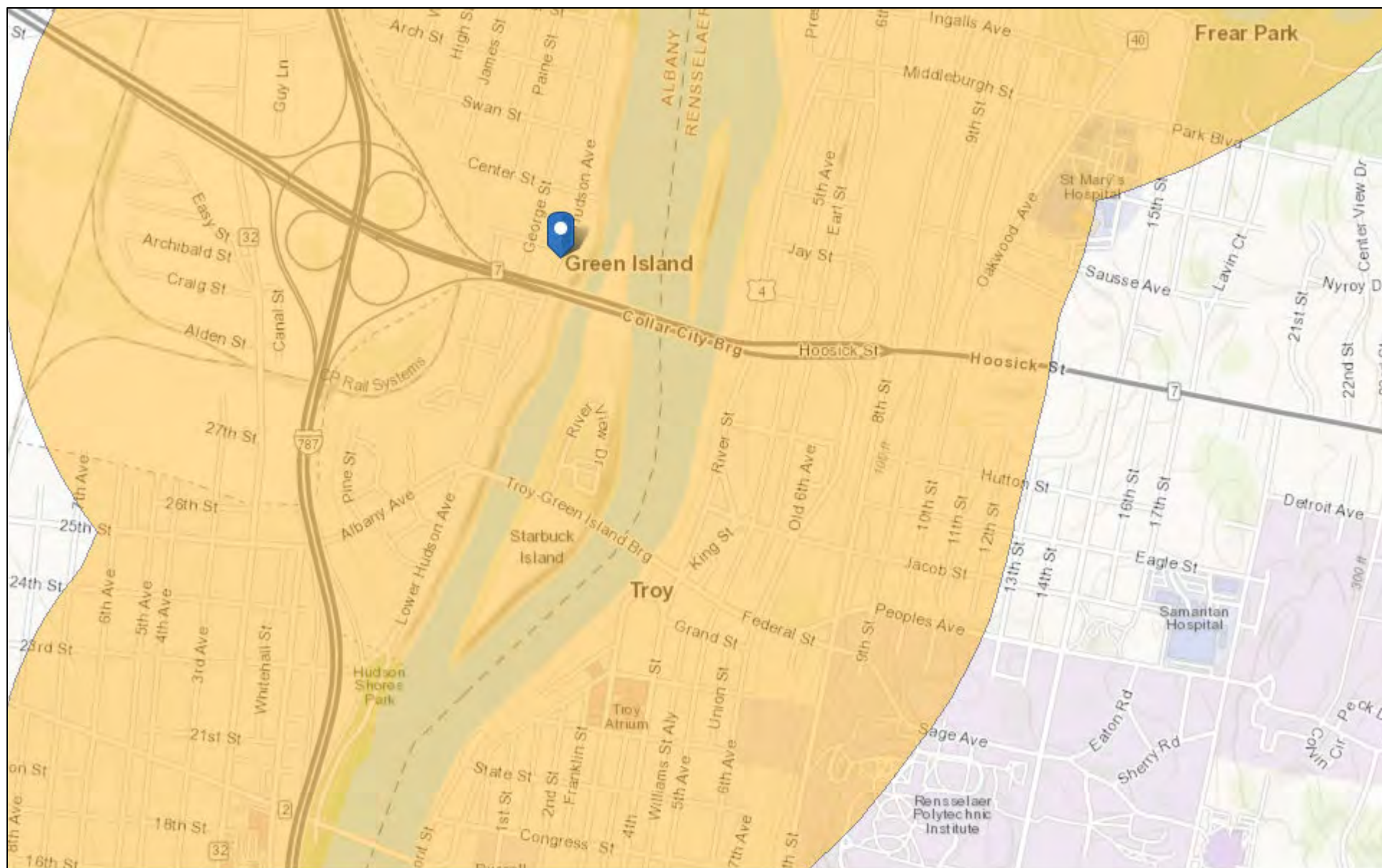
- Significant Natural Communities
- Natural Communities Near This Location

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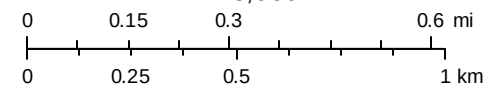


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

Figure 3 - Environmental Resource Mapper - Rare Species Locations



1:18,056



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

APPENDIX H
DATA USABILITY SUMMARY REPORT (DUSR)
(SEPARATE ELECTRONIC FILE)



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