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Figure 6 (EM61) and Figures 7 and 8 (EM31)

**Legend**

**EM-61 and EM-31 Survey Areas**

**SurveyType**

- EM-31 (approx 147,600 sq ft)
- EM-61 (approx 60,850 sq ft)

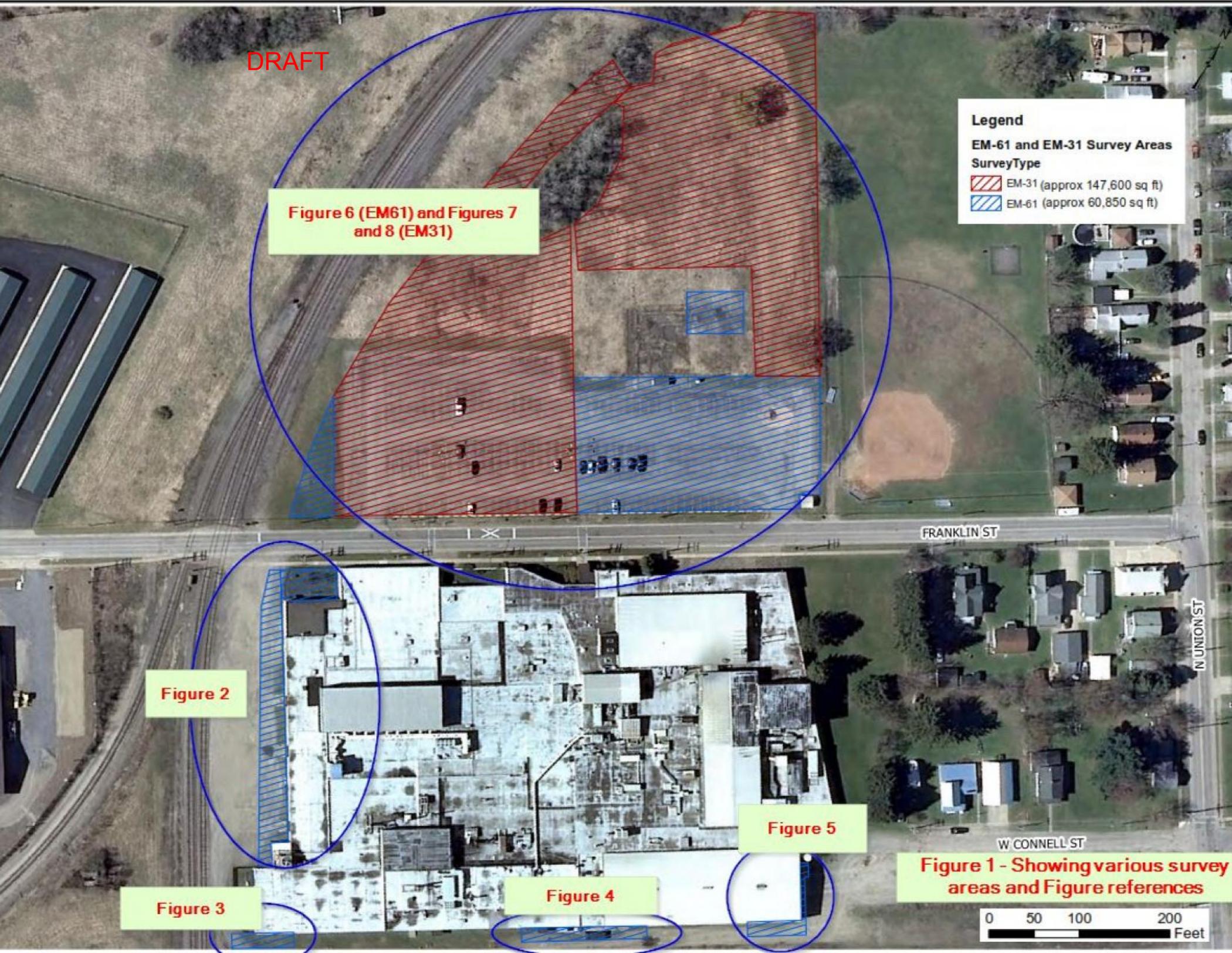
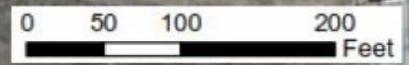
Figure 2

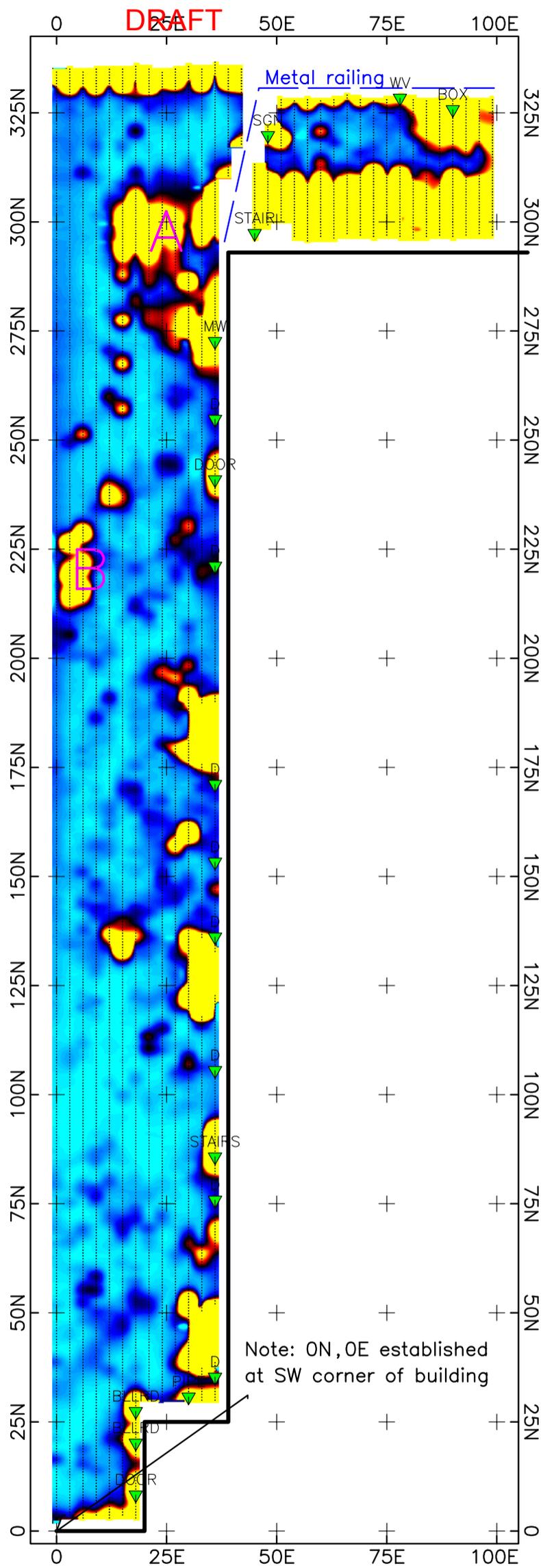
Figure 3

Figure 4

Figure 5

Figure 1 - Showing various survey areas and Figure references





Geophysical Anomaly discussed in report

Grid North

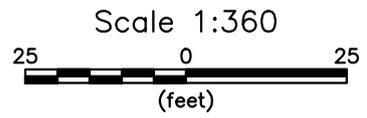
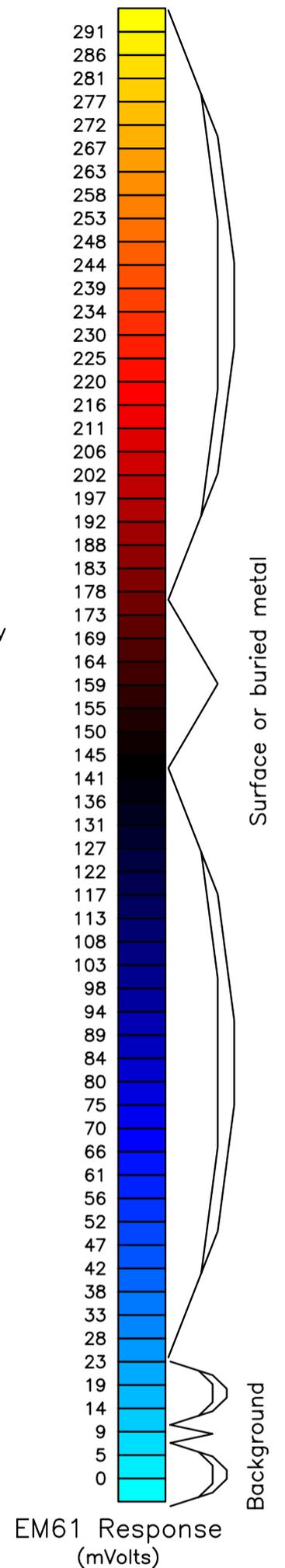
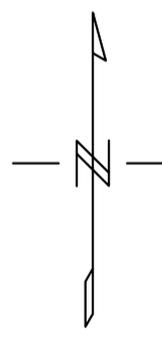
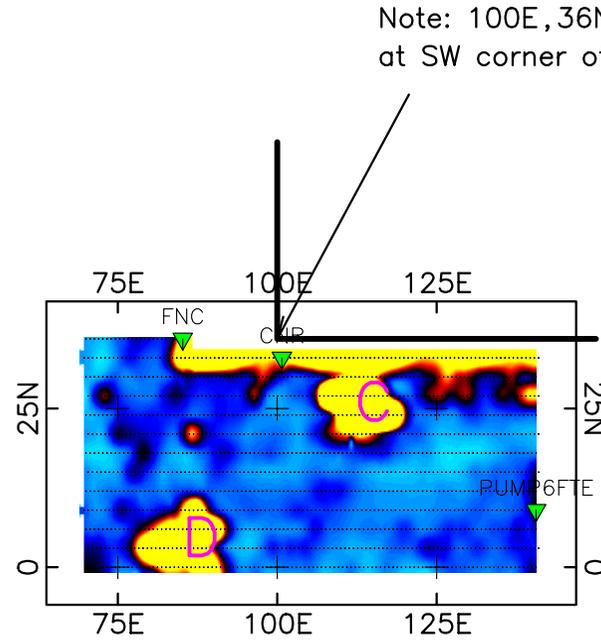
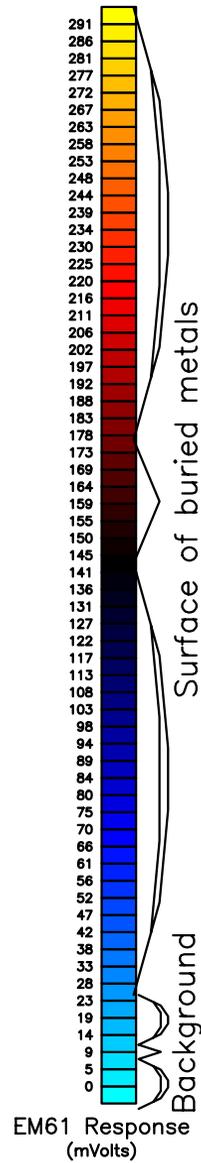
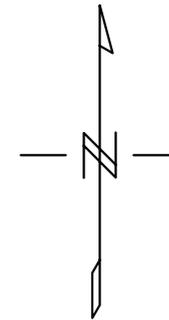


Figure 2  
 Geophysical Survey Results  
 Color Contours of EM61 Data (mVolts)  
 Area 1 (NW Corner Site Building)  
 211 and 202 Franklin St  
 Olean, NY  
 Day Environmental  
 Amec (716) 998-6973

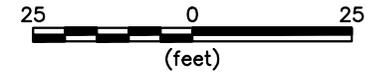
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Grid North



Scale 1:360



A Geophysical Anomaly discussed in report

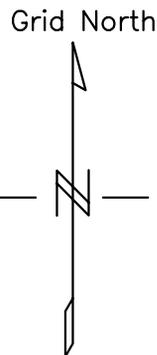
Figure 3

Geophysical Survey Results  
Color Contours of EM61 Data  
(mVolts)

Area 2 (SW Corner Site Building)  
211 and 202 Franklin St  
Olean, NY  
Day Environmental

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Note: 0E, 36N established at base of building below east edge of first window

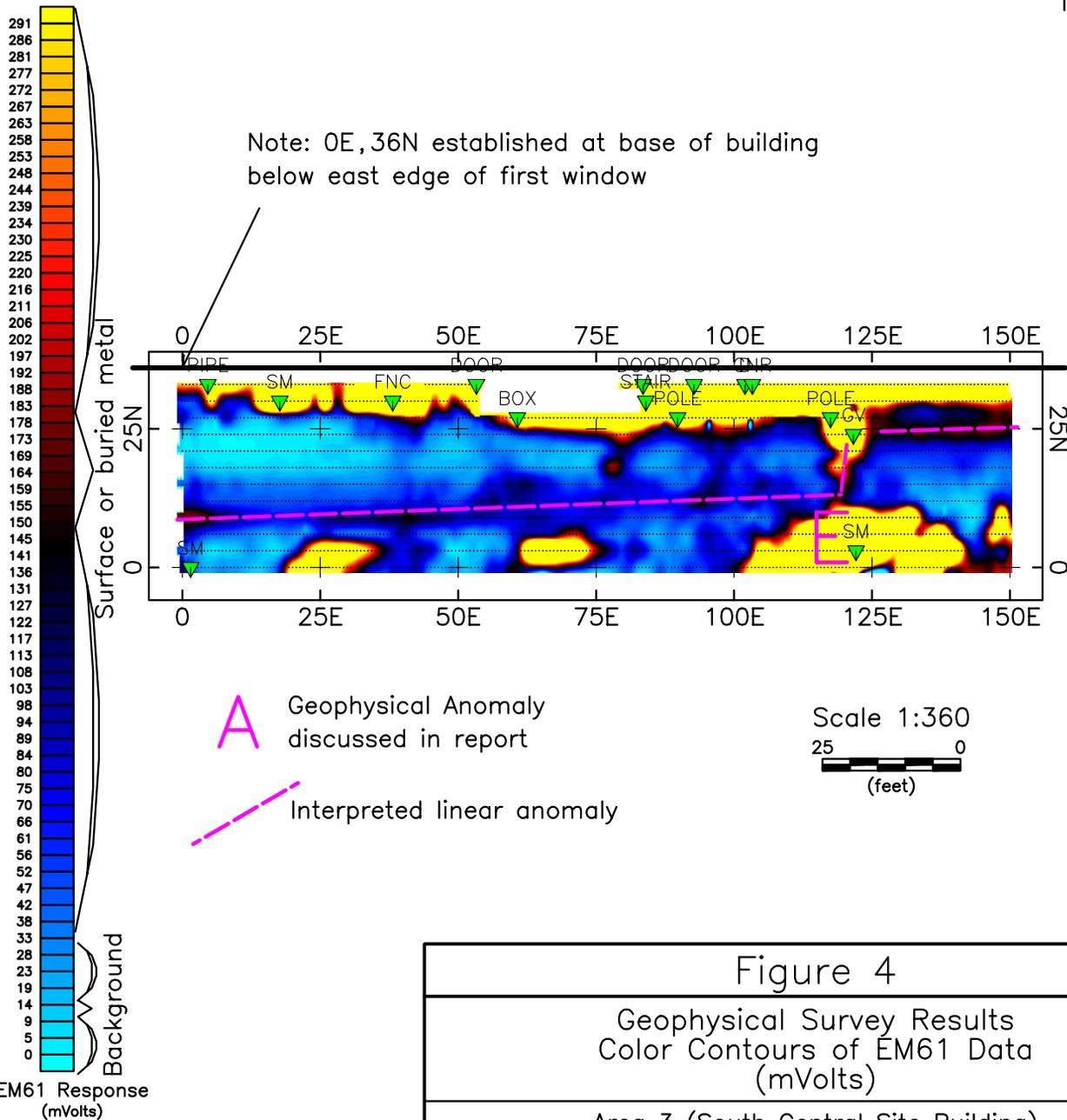


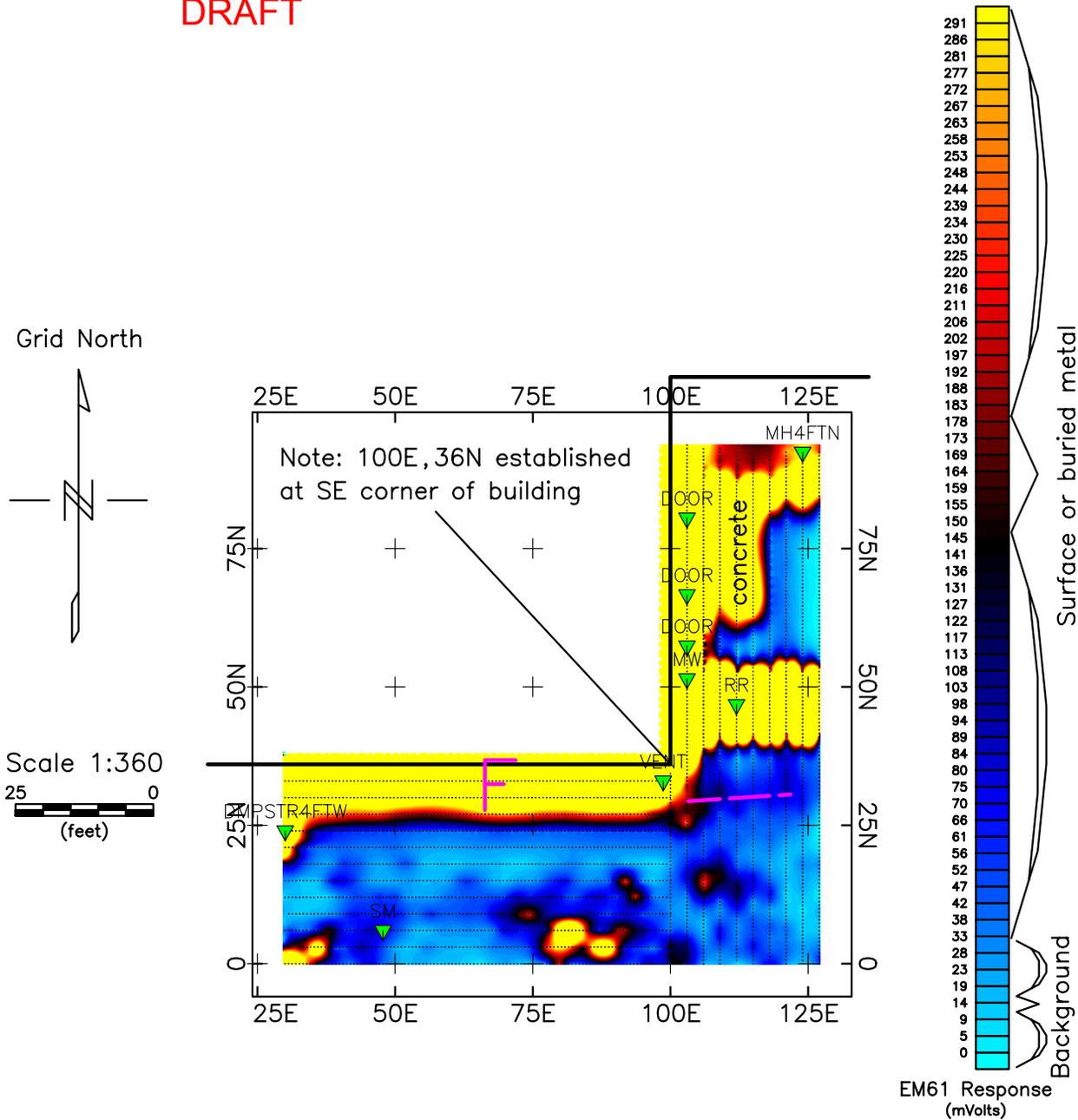
Figure 4

Geophysical Survey Results  
Color Contours of EM61 Data  
(mVolts)

Area 3 (South Central Site Building)  
211 and 202 Franklin St  
Olean, NY  
Day Environmental

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A Geophysical Anomaly discussed in report

Interpreted linear anomaly

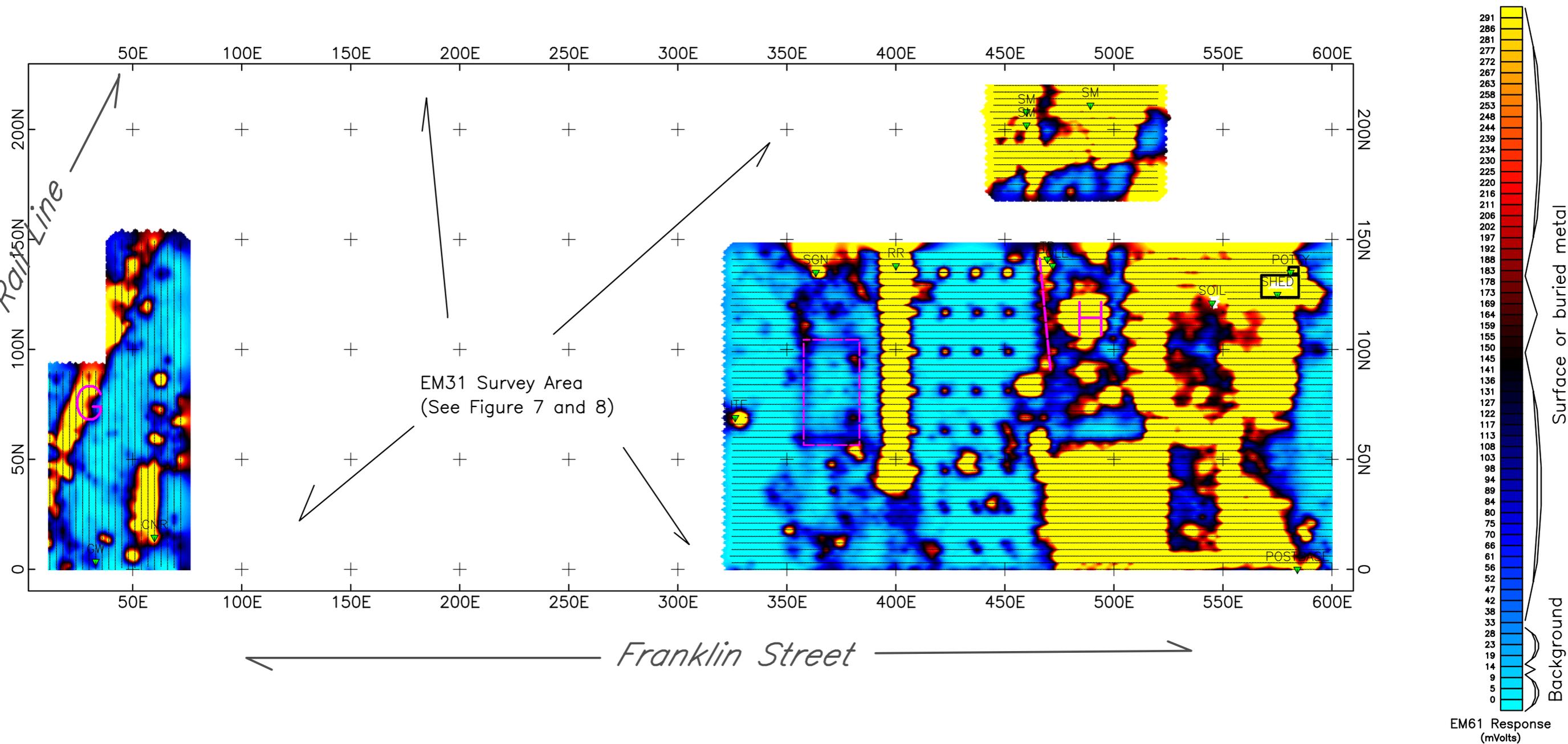
Figure 5

Geophysical Survey Results  
Color Contours of EM61 Data  
(mVolts)

Area 4 (SE Corner Site Building)  
211 and 202 Franklin St  
Olean, NY  
Day Environmental

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**A** Geophysical Anomaly discussed in report

 Interpreted linear anomaly

GRID NORTH

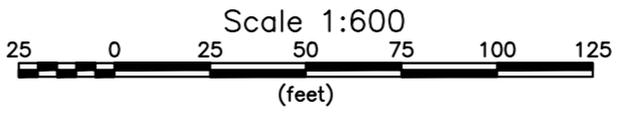
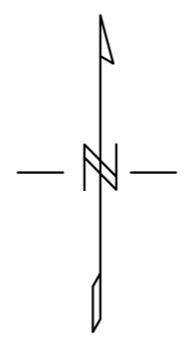
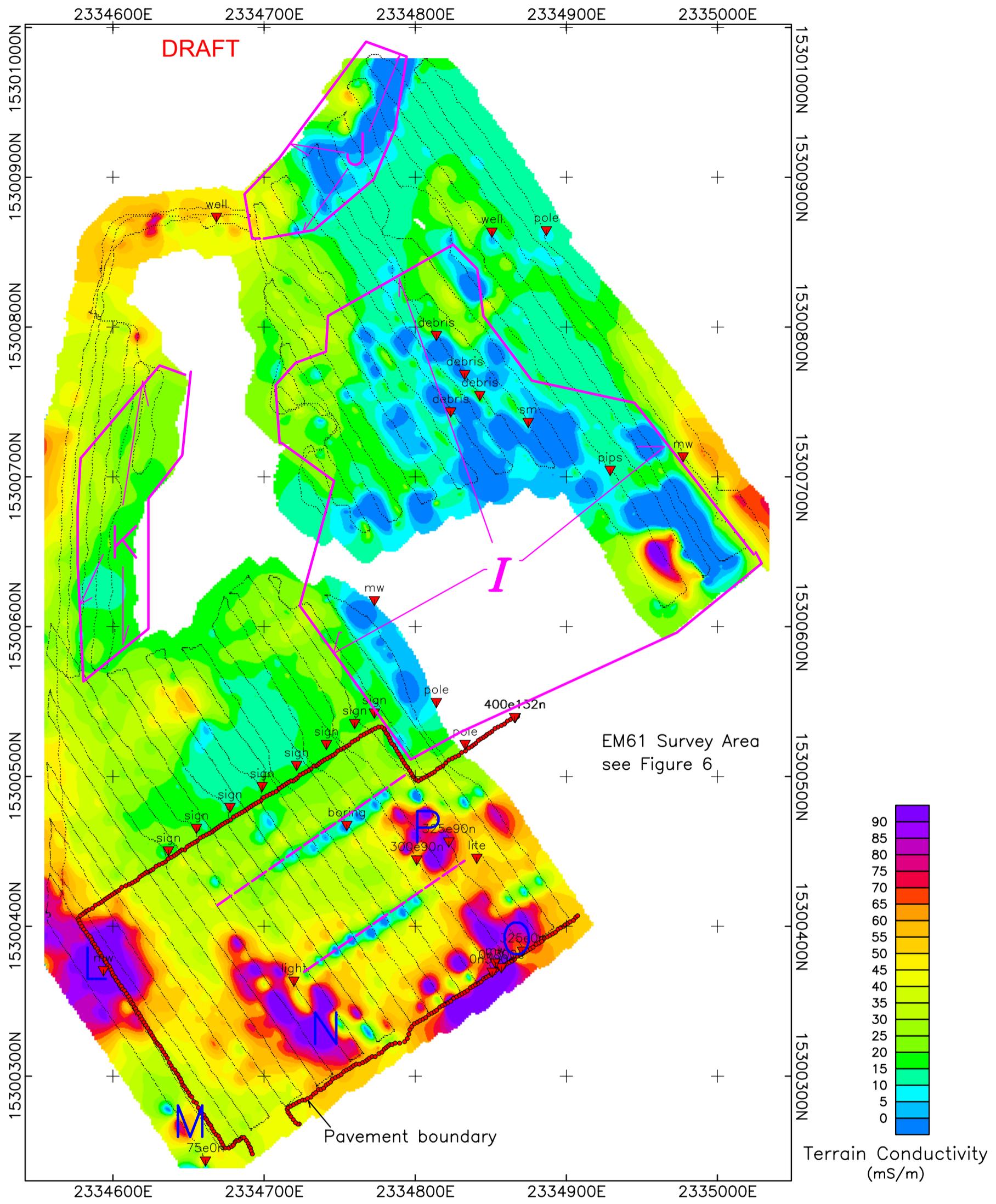
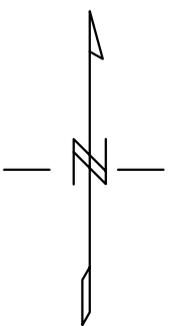


Figure 6  
Geophysical Survey Results  
Color Contours of EM61 Data  
(mVolts)  
Area 5 (Parking Area)  
211 and 202 Franklin St  
Olean, NY  
Day Environmental  
Amec (716) 998-6973



**A** or **A** Geophysical Anomaly discussed in report

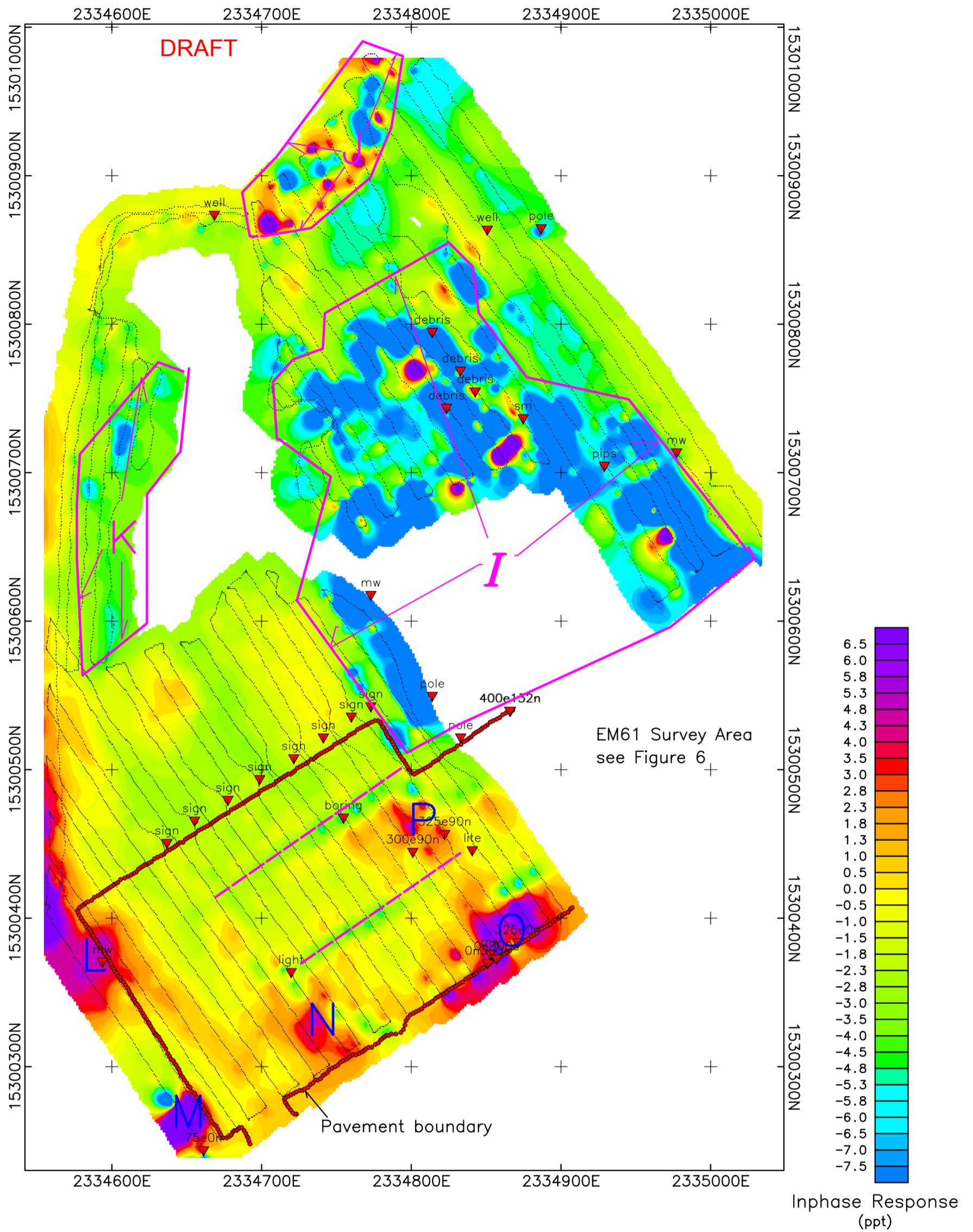
**I** Interpreted linear anomaly



**Figure 7**  
 Geophysical Survey Results  
 Color Contours of EM31 Data  
 Terrain Conductivity (mS/m)

Area 5 (Parking Area)  
 211 and 202 Franklin St  
 Olean, NY  
 Day Environmental

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**A** or **A** Geophysical Anomaly discussed in report

Interpreted linear anomaly

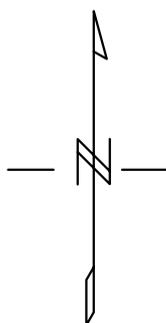


Figure 8  
 Geophysical Survey Results  
 Color Contours of EM31 Data  
 Inphase Response (ppt)  
 Area 5 (Parking Area)  
 211 and 202 Franklin St  
 Olean, NY  
 Day Environmental  
 Amec (716) 998-6973

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**APPENDIX C**

**TEST PIT LOGS,  
TEST BORING LOGS,  
AND  
MONITORING WELL INSTALLATION DIAGRAMS**

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**TEST PIT LOGS**

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: C. Hampton  
 Contractor: Richard Peck Construction  
 Equipment: Hitachi 160 LC Excavator w/40"

Date: 8/4/2014  
 Test Pit Depth: 8.0'  
 Depth to Water: Not encountered

**TEST PIT TP-1**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0		0.0	Crushed Rock and Gravel (FILL) Black, Sand and Slag, some Gravel/Cobbles, Coal fragments, Railroad ties, Brick, Creosote type odor, moist	1-
2-	0.0	2'	0.0		2-
3-	0.0			Tan, Clayey Sand and Gravel, some Cobbles, moist (FILL)	3-
4-				Gray/Black, Sand and Gravel, some Cobbles, Coal fragments, Brick (FILL)	4-
5-				Tan/Brown, Silty medium to coarse SAND and fine to coarse GRAVEL, some Cobbles, moist	5-
6-					6-
7-					7-
8-	0.0		0.0		8-
9-				Bottom of Test Pit @ 8.0'	9-
10-					10-
11-					11-
12-					12-

**Profile Sketch**



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-1**

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Contractor: Richard Peck Construction  
 Equipment: Hitachi 160 LC Excavator w/40"

Date: 8/4/2014  
 Test Pit Depth: 8.0'  
 Depth to Water: Not encountered

**TEST PIT TP-2**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			TOPSOIL Black, Sand and fine to coarse Gravel, Coal fragments (FILL)	
	0.0			Two 2' x 2' steel plates and 3' long 2" dia. Steel rod	
2-	0.0			Tan, Clayey Sand, some fine to coarse Gravel, some Cobbles, moist (FILL)	
3-					
4-	0.0			Brown, Silty medium to coarse SAND and fine to coarse GRAVEL, some Cobbles, moist	4-
5-					5-
6-					6-
7-	0.0		0.0		7-
8-				Bottom of Test Pit @ 8.0'	8-
9-					9-
10-					10-
11-					11-
12-					12-

**Profile Sketch**

GS

2'-  
4'-  
6'-  
8'-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 4) NA = Not Available or Not Applicable

**TEST PIT TP-2**

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**TEST BORING LOGS:  
TB-101 THROUGH TB-126**

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-101**

Page 1 of 3

Ground Elevation: -- Datum: --  
 Date Started: 6/13/2014 Date Ended: 6/16/2014  
 Borehole Depth: 40.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 21.08' (6/16/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	TOPSOIL	
								Concrete Pad (old sidewalk?) with rebar	
2	NA	S-1	0-4	41	NA		0.0	Gray-Black, Sand and Gravel, trace Silt with Cinders, crushed Brick (FILL)	
3							0.0		
4							0.0	...trace Clay	
5							0.0	...tan	
6	NA	S-2	4-8	35	NA		0.0	Tan/Brown, SAND, some fine to medium Gravel, trace Silt, damp	
7							0.0		
8							0.0		
9							0.0		
10	NA	S-3	8-12	64	NA		0.0	...moist	
11							0.0	Reddish-Brown, fine to coarse angular GRAVEL, some Sand, little Silt, moist	
12							0.0		
13							0.0		
14	NA	S-4	12-16	8	NA		0.0		
15							0.0		
16							0.0		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-101**

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/13/2014 Date Ended: 6/16/2014  
 Borehole Depth: 40.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 21.08' (6/16/14) through augers

Test Boring TB-101

Page 2 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17							0.0	Black SAND and GRAVEL, some broken Cobbles, trace Silt, no odor, moist	
18	NA	S-5	16-20	53	NA		192		Petroleum odor
19							117		
							128	...gray, wet	Strong Petroleum odor
20							39.7		
21							46.0	...slight sheen visible	
22	NA	S-6	20-24	51	NA		103	...trace Clay	Strong Petroleum odor
							122		
							165		
24							141	...no Clay	
25							104		
26	NA	S-7	24-28	55	NA		722		
27							330		
28							119		
29							68.9		
30							272		
31	NA	S-8	28-32	48	NA		281		
32							211		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-101**

Page 3 of 3

Ground Elevation: -- Datum: --  
 Date Started: 6/13/2014 Date Ended: 6/16/2014  
 Borehole Depth: 40.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 21.08' (6/16/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
33							58	Gray, SAND and GRAVEL, trace Silt, wet	Petroleum Odor
34	NA	S-5	32-36	36	NA		132	Gray, Sandy CLAY, trace Gravel, wet	
35							69		
36							143		
37							165	...Gray-Brown, little Gravel	
38	NA	S-6	36-40	38	NA		34.9		
39							81.9	...some Gravel	
40								Bottom of Test Boring @ 40.0'	
41									
42									
43									
44									
45									
46									
47									
48									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-102**

Page 1 of 1

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 12.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.3	CONCRETE FLOOR (5.5 inches thick)	
2	NA	S-1	0-4	25	NA		0.3	Black, Cinders/Ballast with some angular Gravel, little crushed red Brick, trace Clay (FILL)	
3							0.2		
4							0.5	Coal Fragments (FILL)	
5							0.4		
6	NA	S-2	4-8	60	NA		0.3	Gray, Clayey Sand, some Gravel, trace red Brick, damp (FILL)	
7							0.4	Gray, medium to coarse SAND, some Gravel, trace Silt, damp	
8							0.7	...Brown	
9									
10	NA	S-3	8-12	65	NA			Brown, Silty medium to coarse SAND, moist, some angular Gravel (broken cobbles?), moist	
11							0.7		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-102**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennes  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Test Boring TB-103

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR	
2	NA	S-1	0-4	59			0.0	Tan/Gray, Gravel and broken Concrete, some medium to coarse Sand, trace Silt (FILL)	
3							0.0	Black, Silty, Cinders, little Gravel (FILL)	
4							0.0	Brown, Silty fine to medium Sand, some Gravel, trace red Brick (FILL)	
5							0.0	Brown, fine to medium SAND and GRAVEL, little Silt, moist	
6	NA	S-2	4-8	63			0.0		
7							0.0		
8							0.0		
9							0.0		
10	NA	S-3	8-12	61			0.0		
11							0.0		
12							0.0		
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-103

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: W. Batiste  
 Drilling Contractor: DAY  
 Sampling Method: Hand Held Geoprobe

**Test Boring TB-104**

Page 1 of 1

Ground Elevation: -- Datum: --  
 Date Started: 7/2/2014 Date Ended: 7/2/2014  
 Borehole Depth: 5.0' Borehole Diameter: 1.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	NA	S-1	0.5-2	70	NA	0.0	0.0	CONCRETE FLOOR	
							0.0	Gray and Brown, medium to coarse Gravel, little Silt (FILL)	
2							0.0	Brown, fine to medium Sand, little Gravel, trace Silt, trace Ash, trace Brick (FILL)	
3	NA	S-2	2-4	85	NA	0.0	0.0		
4	NA	S-3	4-5	0	NA	NA	NA		
5								Bottom of Test Boring @ 5.0'	
6								(Equipment Refusal)	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-104**

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

**Test Boring TB-105**

Page 1 of 3

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 46.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	24						0.0	TOPSOIL (4 inches)	
	24	S-1	0-1.1	77	50+	NA	0.0	Brown/Tan, medium to coarse Sand and Gravel, some crushed red Brick/Concrete pieces, Cinders (FILL)	
	50/0.1								
2							0.0		
	11						0.0		
3	9	S-2	2-4	57	18	NA	0.0	Medium Dense, Brown SAND, trace Silt, damp	
	9						0.0		
4	10						0.0	...little Gravel	
5	20	S-3	4-6	92	40	NA	0.0	Dense Brown, coarse SAND and GRAVEL, trace Silt, broken Cobbles, damp	
	20						0.0		
6	24						0.0		
	11						0.0		
7	25	S-4	6-8	84	50	NA	0.0		
	25						0.0		
8	30						0.0		
	5						0.0		
9	23	S-5	8-10	67	51	NA	0.0	...very dense	
	28						0.0		
10	31						0.0		
	12						0.0		
11	26	S-6	10-12	70	55	NA	0.0		
	29						0.0		
12	34						0.0	...coarse SAND, some Gravel	
	12						0.0		
13	24	S-7	12-14	76	56	NA	0.0		
	32						0.0		
14	31						0.0	...Dense, SAND and GRAVEL	
	19						0.0		
15	22	S-8	14-16	74	48	NA	0.0	...moist, trace Clay	
	26						0.0		
16	17						0.0		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-105**

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Test Boring TB-105

Page 2 of 3

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 46.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17	14						0.0		
	20	S-9	16-18	71	42	8.2			
	22						0.0		
18	28							...wet	
	20						0.0		
19	24	S-10	18-20	58	44	0.0			
	39						0.0	Brown, coarse SAND, some Gravel, trace Silt, wet	Faint Petroleum odor
20	84							...Gray-Brown	
	50/6	S-11	20-20.5	40	50+	-	0.0		
21								Very Dense, Gray, SAND and GRAVEL, trace Silt, wet	
22									Petroleum odor
	7						168		
23	15	S-12	22-24	62	31	168	82.1		
	16						54.7		
	25							...trace Clay	
24									
	9						42.1		
25	12	S-13	24-26	68	25	-	50.4		
	13						50.7		
	16						53.4		
26									
	10						51		
27	-	S-14	26-28	67	-	-	1277		
	-						685		
	-						50.7		
28									
	19						54.6		
29	19	S-15	28-30	61	41	-	205		
	22						366		
30	19						80.1		
	12								
31	13	S-16	30-32	72	28	-	608	...medium dense	
	15								
32	11								

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennes  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Macrocore

**Test Boring TB-105**

Page 3 of 3

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 46.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
33	11						110		Petroleum Odor
	12	S-17	32-34	56	27		1216	Gray, medium to coarse SAND, wet	
	15						214	...some Gravel, trace Silt	
	13						827		
34	12						450		
35	15	S-18	34-36	73	27				
	12						879		
36	11								
37	10								
	13	S-19	36-38	58	28				
38	15								Faint Petroleum Odor
	13	S-20	38-40	32					
39	18								
	16								
40									
41		S-21	40-42	59	30				
								Dense Gray, coarse SAND and GRAVEL, trace Silt, wet	
42	6								
43	14	S-22	42-44	38	30				
	16								
44	17								
	7							...some broken Cobbles	
45	20	S-23	44-46	50	36	109			
	18								
	16								
46									Bottom of Test Boring @ 46.0'
47									
48									

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 Project Address: 211 Franklin Street  
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 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Macrocore

**Test Boring TB-106**

Page 1 of 1

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR (2.5 inches thick)	
2	NA	S-1	0-4	50	NA	0.0	0.0	Gray, clayey fine Sand and medium to coarse Gravel, Brick, damp (FILL)	
3							0.0	...medium to coarse Sand	
4							0.0	...red/brown	
5							0.0	...concrete chips	
6	NA	S-2	4-8	60	NA	0.0	0.0	Brown, medium to coarse SAND, some Gravel, trace broken Cobbles, damp	
7							0.0		
8							0.0	...moist	
9							0.0	...Gray, fine to medium Sand	
10	NA	S-3	8-12	90	NA	0.0	0.0		
11							0.0		
12									
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-107

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1								CONCRETE FLOOR (5 inches thick)	
2	NA	S-1	0-4	52	NA		0.5	Brown, fine to medium Sand, some Silt intermixed with Bricks, Glass, Ash, moist (FILL)	
3									
4								Brown, fine to medium SAND, some Gravel, little Silt, moist (FILL)	
5							5.2	0.2 thick piece of wood	
6	NA	S-2	4-8	48	NA		0.5	Gray/Brown, fine to coarse Sand, some rounded Gravel, moist (FILL)	
7									
8									
9							0.7	...brick fragments	
10	NA	S-3	8-12	65	NA				
11							11	Gray/Tan, fine to medium Sand and Gravel, moist (FILL)	
12							0.4	...Black, Brick fragments, pieces of Concrete (FILL)	
13	NA	S-4	12-14	100	NA	12.3	1.4		
14									
15	NA	S-5	14-18	55	NA		0.5	Tan, fine to medium SAND, some Gravel, little Silt, moist	
16									

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 5) Headspace PID readings may be influenced by moisture

Test Boring TB-107

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Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-107**

Page 2 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 6/25/14 (1630) 23.4' through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17									
18							.7	...fine to medium SAND and medium to coarse sub-round GRAVEL, trace Silt	
19	NA	S-6	18-20	70	NA	-	2.7		
20									
21									
22	NA	S-7	20-24	30	NA	-	0.9		
23									
24								Gray, fine to medium SAND, some Gravel, broken Cobbles, moist	Petroleum Odor
25							858		
26	NA	S-8	24-28	68	NA	-	242	...wet	
27							1292		
							239		
28								Bottom of Test Boring @ 28.0'	
29									
30									
31									
32									

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 52.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-108

Page 1 of 4

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	TOPSOIL with organic material (4 inches thick)	
							0.0	Black, Cinders, little crushed Concrete, trace Coal fragments, trace Brick (FILL)	
2	NA	S-1	0-4	52	NA		0.0		
3							0.0	Brown, medium Sand, some Gravel, trace Silt, Cinders (FILL)	
4							0.0	...no cinders	
5							0.0		
6	NA	S-2	4-8	38	NA		0.0	Brown, coarse SAND and GRAVEL, trace Silt, damp	
7							0.0	...moist	
8							0.0		
9							0.2		
10	NA	S-3	8-12	62	NA		0.2		
11							0.7		
12							0.0		
13							0.2	...frequent cobbles during augering	
14	NA	S-4	12-16	68	NA		0.7		
15							0.8		
16							0.1		

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 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 52.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-108

Page 2 of 4

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17							0.0		
18	NA	S-5	16-20	69	NA	0.0	0.1		
19							0.3		
20							0.2	...frequent cobbles encountered during augering	
21							0.0	...moist	
22	NA	S-6	20-24	69	NA	100.4	0.0		
23							0.8	Gray, medium to coarse SAND and GRAVEL, some broken Cobbles, trace Silt, wet	
24							110.0		Petroleum Odor
25							22.7	...medium to coarse SAND, some Gravel	
26	NA	S-7	24-28	56	NA	556	66.4	...Gray, coarse SAND and GRAVEL	
27							43.8		
28							322.4		
29							79.5	...Gray, medium to coarse SAND, some Gravel	
30	NA	S-8	28-32	63	NA	343.6	248	...Gray, medium to coarse SAND and GRAVEL	
31							180.7		
32							260.1	...Gray, GRAVEL (sub-rounded) some coarse Sand	

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 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 52.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-108

Page 3 of 4

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
33							925		
34	NA	S-9	32-36	51	NA		49.0	...coarse SAND and GRAVEL (angular to sub-rounded)	Petroleum Odor           Faint Petroleum Odor
35							62.0		
36							168.0		
37							361.8		
38	NA	S-10	36-40	52	NA		67.0	Gray, medium to coarse SAND, trace Silt, wet	
39							27.8	...little Gravel	
40							205.6		
41							66.0	Gray, coarse SAND and GRAVEL, little broken Cobbles, trace Silt, wet	
42	NA	S-11	40-44	45	NA		37.6		
43							48.2		
44							10.5		
45							44.8	Gray, medium SAND, little Gravel, trace Silt, wet	
46	NA	S-12	44-48	48	NA		44.8	Gray, coarse SAND and GRAVEL, trace Silt, wet	
47							4.0	...medium to coarse SAND and GRAVEL	
48							25.6		
							12.2		
							8.5		
							23.5		
							16.4		

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 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 52.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

**Test Boring TB-108**

Page 4 of 4

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
49						8.8	6.8	Gray, medium to coarse SAND, trace Gravel, trace Silt, wet	Very faint petroleum odor ↓
50	NA	S-13	48-52	41	NA	8.7			
51							24.3	...some Gravel	
52						20.7			
53								Bottom of Test Boring @ 52.0'	
54									
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-109**

Page 1 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 20.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1								CONCRETE FLOOR (0.4 feet thick)	
2	NA	S-1	0-4	65	NA			Brown/Black, fine to medium Sand and Gravel, some broken Concrete pieces, red Bricks, little Cinders, trace Clay, moist (FILL)	
3								...frequent Cinders	
4								...frequent pieces of Brick	
5									
6	NA	S-2	4-8	53	NA			...crushed red Brick	
7								.....	
8								Brown, Clayey Sand and sub-rounded Gravel, little Silt intermixed with red brick fragments, pieces of Concrete	
9									
10	NA	S-3	8-12	67	NA				
11									
12							1.8	Tan/Brown, medium to coarse SAND and GRAVEL, trace Silt, moist	
13							39.2		
14	NA	S-4	12-14	100	NA		25.4	...sweet chemical-type odor	
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-109**

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 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 20.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

**Test Boring TB-109**

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17								Tan/Brown, medium to coarse SAND and GRAVEL, trace Silt, moist	
18	NA	S-5	16-20	2.4		-			
19								Bottom of Test Boring @ 20.0'	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-110**

Page 1 of 1

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR (0.45' thick)	
							0.0	Brown, coarse Sand and Gravel, some broken Cobbles, trace Silt (FILL)	
2	NA	S-1	0-4	58	NA		0.0	Brown/Black, fine to medium Sand, some Gravel, trace Cinders, crushed red Brick, trace Coad fragments (FILL)	
3							0.0		
4							0.0	...frequent Red Brick and Mortar	
5							0.0		
6	NA	S-2	4-8	41	NA		0.0		
7							0.0		
8							0.0	...pieces of decaying wood	
9							0.0		
10	NA	S-3	8-12	-	NA		0.0	...frequent broken/decaying Concrete	
11							0.0		
12							0.0	...coarse gray Sand (weathered concrete?)	
13								Bottom of Test Boring @ 12.0'	
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
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**Test Boring TB-110**

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 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 9.7' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

**Test Boring TB-111**

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1								CONCRETE FLOOR (0.93' thick)	
2								Unfilled Former Basement Area - No Samples Collected	
3									
4									
5									
6									
7									
8									
9									
10								Bottom of Test Boring @ 9.7'	← Concrete Floor
11									
12									
13									
14									
15									
16									

- Notes:
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-111**

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 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-112**

Page 1 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/23/2014 Date Ended: 6/23/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 17.76' (6/23/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	NA	S-1	0-4	56	NA	0.4	1.0	CONCRETE FLOOR (4 inches thick) Sub-base Black/Brown, Cinders and apparent Ballast, little Coal fragments, broken red Brick, Concrete (FILL)	
2							0.4	...some crushed red Brick (FILL)	
3							0.7	Brown, medium Sand, little Silt, little Clay, damp (FILL)	
4							0.9	...little Gravel, trace Cinders	
5	NA	S-2	4-8	65	NA	0.9	0.9		
6							1.0		
7							0.9		
8	NA	S-3	8-10	48	NA	1.1	1.4		
9							1.2		
10							1.3	Brown/Black, medium to coarse SAND, some sub-rounded Gravel, little Silt, moist	
11							2.6		
12	NA	S-4	10-14	71	NA	1.4	2.3	...Brown	
13							2.5	Tan/Gray, medium to coarse SAND and GRAVEL, some brokenCobbles, trace Silt, moist	
14							2.7		
15	NA	S-5	14-17	38	NA	1.6	1.8	...little Silt	
16							2.0		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

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 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-112**

Page 2 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/23/2014 Date Ended: 6/23/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 17.76' (6/23/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17							1.8	Tan/Gray, medium to coarse SAND and GRAVEL, little Silt, moist	Macrocore refusal at 17.1', began augering
18							2.2		
19	NA	S-6	18-20	40	NA		1.7		
							1.6		
20							6.2		
21									
22	NA	S-7	20-24	40	NA	96.0	7.0		
23									
24							187.1		
25									
26	NA	S-8	24-28	-	NA		250.6		
27							34.6		
28							356		
29								Bottom of Test Boring @ 28.0'	
30									
31									
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
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 Sampling Method: Auger & Macrocore

**Test Boring TB-113**

Page 1 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.75 (6/25/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							2.7	CONCRETE FLOOR	
							3.1	Brown to Gray, Clay, some Gravel with Ash and Brick fragments (FILL)	
2	NA	S-1	0-4	50	NA				
3							3.9		
4							4.5		
5							0.8	Brown, SAND, some medium to coarse sub-rounded Gravel, little Silt, damp	
6	NA	S-2	4-8	85	NA		1.5		
7							2.0		
8							2.0		
9							0.2	...medium to coarse SAND	
10	NA	S-3	8-12	62	NA	1.1	0.2		
11							0.2	...trace Clay	
12							0.2		
12	NA	S-4	12-12.9	75	NA	1.1	0.1	Red-Brown, GRAVEL, some Sand, trace Silt, moist	
13							0.1	Tan/Brown, SAND and fine to medium rounded GRAVEL, little Silt, trace Clay, moist	
14									
15	NA	S-5	15-17	70			251		
16							273		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-113**

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Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.75 (6/25/14) through augers

**Test Boring TB-113**

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17									17-18' macrocore would not advance, auger to 20 feet
18									
19									
20	NA	S-6	20-21	60	NA		0.9	Red-Brown, fine to medium SAND, little Silt, moist	
21									
22								Frequent Gravel/Cobbles during advancement of augers	
23									
24							154.0	Brown, medium to coarse SAND, little Gravel, trace Silt, wet	
25							65.2	Gray, SAND and GRAVEL, little Silt, wet	
26	NA	S-7	24-28	68			131.0		
27							37.5		
28								Bottom of Test Boring @ 28.0'	Faint Petroleum Odor ↓ Petroleum Odor ↓
29									
30									
31									
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-113**

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 Project Address: 211 Franklin Street  
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 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-114**

Page 1 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/17/2014 Date Ended: 6/17/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 18.77 through augers upon completion

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1								CONCRETE SLAB	1.6 inches of Gravel/Soil covering slab
2	NA	S-1	0-4	28	NA			Brown, medium Sand and Gravel, trace Silt (FILL) ...some crushed red Brick ...little Silt	
3									
4								Brown, SAND and GRAVEL, trace Silt, damp	
5									
6	NA	S-2	4-8	59	NA				
7									
8								Brown, coarse SAND, some Gravel, broken Cobbles, trace Silt, damp	
9									
10	NA	S-3	8-12	54	NA				
11									
12									
13									
14	NA	S-4	12-16	61	NA				
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-114**

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 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Test Boring TB-114

Page 2 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/17/2014 Date Ended: 6/17/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17								Brown, coarse SAND and GRAVEL, broken Cobbles, trace Silt, moist	
18	NA	S-5	16-20	56	NA				
19								...trace Clay, wet	
20									
21						0.0		Gray, SAND and GRAVEL, little Silt, wet	Faint Petroleum Odor
22	NA	S-6	20-24	74	NA	0.0			
23									
24						33.5	6.1	...Gray/Black	
25							61.0		
26	NA	S-7	24-28	26	NA	161.8	78.9	...frequent Cobbles during augering	Petroleum Odor
27						266	15.5		
28								Bottom of Test Boring @ 28.0'	
29									
30									
31									
32									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-114

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-115

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CRUSHED ROCK	
2	NA	S-1	0-4	65	NA	0.0	0.0	Brown, Silty fine Sand, little fine Gravel, little Clay, Brick, damp (FILL)	
3							0.0		
4							0.0	...Medium to coarse Sand, some fine to coarse Gravel, trace Silt	
5							0.0		
6	NA	S-2	4-8	70	NA	0.0	0.0	Brown, Clayey fine SAND, damp	
7							0.0	Brown, medium to coarse SAND and fine to coarse GRAVEL, trace Silt, damp	
8							0.0	...little Silt	
9							0.2	...trace Silt	
10	NA	S-3	8-12	80	NA	0.0	0.3		
11							0.0	...trace broken Cobbles	
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-115

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ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Geoprobe

Test Boring TB-116

Page 1 of 1

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 11.3' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR	
							0.0	Brown/Black, Cinders and Gravel, trace Silt, Mortar (FILL)	
							0.0	...crushed red Brick (FILL)	
2	NA	S-1	0-4	54	NA		0.0	Brown, fine to medium SAND, some Gravel, trace Silt, damp	
3							0.0		
4							0.0		
5							0.0		
6	NA	S-2	4-8	51	NA		0.0		
7							0.0		
8							0.0	...medium to coarse SAND	
9							0.0	...some coarse Gravel	
10	NA	S-3	8-11.3	53	NA		0.0		
11							0.0		
12								Equipment Refusal @ 11.3'	
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-116

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Project #: 4884S-13  
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 Olean, New York  
 DAY Representative: W. Batiste  
 Drilling Contractor: DAY  
 Sampling Method: Hand Held Geoprobe

Test Boring TB-117

Page 1 of 1

Ground Elevation: -- Datum: --  
 Date Started: 7/2/2014 Date Ended: 7/2/2014  
 Borehole Depth: 12.0' Borehole Diameter: 1.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): Not encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR (approximately 1' thick)	
2	NA	S-1	1-3	60	NA	9.0	30	Dark Brown and Black, fine to medium Gravel, Coal and Brick fragments (FILL)	
3							0.0		
4	NA	S-2	3-5	80	NA	0.0	0.0	...Black, some coarse Sand	
5							0.0	Brown, SAND, some coarse Gravel, little Silt, trace Clay, damp	
6	NA	S-3	5-7	75	NA	0.0	0.0		
7							0.0		
8	NA	S-4	7-9	50	NA	0.0	0.0	Brown, fine to medium SAND and medium to coarse GRAVEL, trace Silt, damp	
9							0.0		
10	NA	S-5	9-11	55	NA	0.0	0.0		
11	NA	S-6	11-12	70	NA	100	0.0		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-117

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennes/C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/19/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.85 (6/19/14) through augers

Test Boring TB-118 (MW-N)

Page 1 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	1	S-1	0-2	25	NA		0.0	CONCRETE FLOOR - 2 Layers (0.85 feet thick)	
	2							Brown, medium to coarse Sand and Gravel, little Silt, damp (FILL)	
2	4						0.0		
	3								
3	2	S-2	2-4	10	NA		0.0	...some Gravel	
	2								
4	3								
5	2	S-3	4-6	50	NA	0.0	0.0		
	1						0.0		
6	1							...little Clay, Coal fragments	
7	1	S-4	6-8	50	NA	0.0	0.0		
	1								
8	1							...some broken Cobbles, Brick fragments	
9	1	S-5	8-10	30	NA	0.0	0.0		
	2								
10	1								
11	1	S-6	10-12	80	NA	0.0	0.0		
	7								
12	15								
13	5	S-7	12-14	50	NA	0.0	0.0		
	12								
	25						0.0	weathered Concrete	
	33								
14	8						0.0	Brown, medium to coarse SAND and fine to coarse GRAVEL, trace Silt, moist	
15	22	S-8	14-16	70	NA	0.0	0.4		
	23								
16	26								

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 5) Headspace PID readings may be influenced by moisture

Test Boring TB-118 (MW-N)

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/19/2014 Date Ended: 6/19/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.85 (6/19/14) through augers

Test Boring TB-118 (MW-N)

Page 2 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17		S-9	16-18	90	NA	0.0	0.0		
18						0.2			
19		S-10	18-20	60	NA	0.0	0.0	...little Silt	
20						0.0			
21		S-11	20-22	70	NA	0.0	0.5		
22						0.0	0.3		
23		S-12	22-24	80	NA		0.1	Medium to coarse SAND, lense	
24							1.6	...wet	
25		S-13	24-26	60	NA	3702	0.7	...frequent Cobbles	Petroleum Odor
26							2.5	...Gray	↓
27		S-14	26-28	75	NA	6578	170	Gray, medium to coarse SAND and GRAVEL, trace Silt, wet	Faint Petroleum odor
28							28.6		↓
29		S-15	28-30	45	NA	35.8	12.4		Petroleum odor
30							30.5		↓
31		S-16	30-32	55	NA	656.2	501.2		
32							165		
							92.1		
							73.8		
							78.9		
							58.6		
							532		

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 5) Headspace PID readings may be influenced by moisture

Test Boring TB-118 (MW-N)

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 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.85 (6/19/14) through augers

Test Boring TB-118 (MW-N)

Page 3 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
33	NA	S-17	33-34	60	295.3	127.2			Petroleum odor ↓
34						139.6	...coarse SAND and GRAVEL		
35						199.4	Bottom of Test Boring @ 34.0'		
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

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Test Boring TB-118 (MW-N)

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-119

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.6	CONCRETE FLOOR (9 inches thick)	
2	NA	S-1	0-4	30	NA	0.1	0.8	Dark Brown, Silty fine to coarse Sand, some fine to medium Gravel, little Brick, damp (FILL)	
3							0.4		
4							3.0	Gray, Crushed Rock/Concrete	
5							2.3	Brown, Clayey fine SAND, little medium Gravel, moist	
6	NA	S-2	4-8	60	NA	0.1	0.3	Brown, medium to coarse SAND and fine to coarse GRAVEL, trace Silt, moist	
7							0.5	Medium to coarse SAND, little fine Gravel trace Silt, moist	
8							0.6		
9							0.3		
10	NA	S-3	8-12	70	NA	0.0	0.1	...little Silt	
11							0.0		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
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Test Boring TB-119

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-120

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR	
2	NA	S-1	0-4	26	NA	0.0	0.0	Brown, Clayey fine Sand and fine to medium Gravel, damp (FILL)	
3							0.0		
4							0.0		
5							0.0		
6	NA	S-2	4-8	50	NA	-	0.0		
7							0.0		
8							0.0	Brown, medium to coarse SAND and fine to coarse GRAVEL trace Silt, moist	
9							0.0	...little Silt	
10	NA	S-3	8-12		NA	0.0	0.4	...trace Silt, trace broken Cobbles	
11							0.0		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
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Test Boring TB-120

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 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

Test Boring TB-121

Page 1 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 32.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.9' (6/18/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	2	S-1	0-2	20	8	-	0.0	TOPSOIL and SOIL FILL	
4									
2	4	S-2	2-4	61	5	0.3	0.0	Black Coarse Sand, little Gravel, little crushed Brick (FILL)	
2									
3	2	S-3	4-6	57	14	0	0.0	Brown, Clayey Sand, some Gravel, trace Silt, damp (FILL)	
3									
4	2	S-4	6-8	62	30	0	0.0	Loose, Brown, coarse SAND and GRAVEL, trace Silt, damp	
5									
6	6	S-5	8-10	58	34	0	0.0	Medium dense, Brown, SAND, some broken Cobbles, trace Silt, damp	
6									
7	11	S-6	10-12	86	31	0	0.0	...coarse SAND and GRAVEL	
14									
8	16	S-7	12-14	80	51	0	0.0	...trace Clay	
17									
9	17	S-8	14-16	68	64	NA	0.0	...Dense	
9									
10	9	S-8	14-16	68	64	NA	0.0	...very dense	
13									
11	13								
12	14								
13	17								
14	14								
15	10								
16	27								
17	24								
18	23								
19	50								
20	30								
21	34								
22	31								

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-121

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
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 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Split Spoon

Test Boring TB-121

Page 2 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 32.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.9' (6/18/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17	11						0.0	Very dense, Brown, coarse SAND and angular GRAVEL, some broken Cobbles, trace Silt, damp	Auger to 20 feet
	31	S-9	16-18	73	50+	0.0	0.0		
	50						0.0		
18	50/5							...some Gravel	
	50	S-10	18-18.6	95	50+	0.0	0.0		
19									
20								...wet	
21	26	S-11	20-22	0	60				
	32								
	28								
22	10							...medium dense, trace broken Cobbles	
23	4	S-12	22-24	36	21	0.0	0.0		
	9								
	12								
24	13								
25	27	S-13	24-25	100	50	0.0	0.0		
	50/4								
26									
27	20	S-14	26-28	60	49	0.0	0.0	...SAND and GRAVEL, trace Clay	
	21								
	28								
28	31							...no Clay	
29	24	S-15	28-30	58	49	0.0	0.0		
	22								
	27								
30	21								
31	27	S-16	30-32	54	59	0.0	0.0		
	28								
	31								
32	23								
Bottom of Test Boring @ 32.0'									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
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Test Boring TB-121

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 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

**Test Boring TB-122**

Page 1 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/17/2014 Date Ended: 6/17/2014  
 Borehole Depth: 30.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	9	S-1	0-2	45			14.1	CONCRETE FLOOR	
	25						58.2	Brown, Gravel with Cobbles, little Sand, trace Silt, Sandstone Chips, damp (FILL)	
	29						3874		
2	22	S-2	2-4	60	18		84.7	Brown, Silty fine Sand, some Gravel, Coal fragments, Brick fragments (FILL)	
	8						101		
3	10						35.6		
	21								
4	12	S-3	4-6	50	41		488		
	21						492		
5	20						25.1		
	13								
6	7	S-4	6-8	75	18	4.8	18.8		
	10						17.9		
7	8						22.2		
	9								
8	5	S-5	8-10	40	6	2.2	167		
	4						67.4		
9	2							Brown, Clayey Sand and Gravel, damp (FILL)	
	2								
10	1	S-6	10-12	50	18	0.3	25.2	Medium dense, Brown, medium to coarse SAND and fine to coarse GRAVEL little Silt, damp	
	7						4.0		
11	11								
	18								
12	19	S-7	12-12.8	10	50+		0		
	13								
14	9	S-8	14-16	70	39		3.5	Dense, Silty SAND, some broken Cobbles, damp	
	15						4.4		
15	24								
	26								
16								Dense, brown, coarse SAND, some Gravel, trace Silt, damp	

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-122**

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Split Spoon

**Test Boring TB-122**

Page 2 of 2

Ground Elevation: -- Datum: --  
 Date Started: 6/17/2014 Date Ended: 6/17/2014  
 Borehole Depth: 30.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17	41						1.9		
	36	S-9	16-18	90	50+	0.2	1.8	Very dense, brown, coarse GRAVEL, some Sand, trace Silt, damp	
	38						1.3		
	39						1.3		
18	7						29.0		
19	23	S-10	18-20	70	50+	6.7	20.9	...frequent Cobbles during augering	
	29						6.8		
	24								
20	17						0.0	...coarse SAND and GRAVEL	
21	24	S-11	20-22	70	50	19.0	5.2		
	26						2.7		
	32								
22	24						0.1		
23	26	S-12	22-24	75	50+	-	0.3	...wet	
	28						1.1		
	31								
24	5						640		
25	22	S-13	24-26	70	50+	30	799		
	30								
	34								
26	17						0.3		
27	19	S-14	26-28	75	35		0.1	...Dense	
	16						0.5		
	20								
28	1						0.0	...Loose, brown, coarse SAND, little Gravel, wet	
29	4	S-15	28-30	65	10	-	0.0		
	6						0.0		
	7								
30									
31								Bottom of Test Boring @ 30.0'	
								(Equipment Refusal)	
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-122**

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ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennes  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-123

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR	
2	NA	S-1	0-4	58	NA		0.0	Brown, coarse Silty Sand and Gravel, some broken Cobbles (FILL)	
3							0.0	...trace red Brick	
4							0.0	Red Brick	
5							0.0	Black Cinders and Coal fragments (FILL)	
6	NA	S-2	4-8	33	NA		0.0	Brown, medium to coarse Sand and Gravel, some Silt, little crushed red Brick (FILL)	
7							0.0	Brown, medium to coarse SAND and sub-round GRAVEL, some Silt, damp	
8							0.0	frequent Cobbles	
9							0.0		
10	NA	S-3	8-12	57	NA		0.0		
11							0.0	...fine to medium SAND and GRAVEL	
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-123

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Ground Elevation: -- Datum: --  
 Date Started: 6/25/2014 Date Ended: 6/25/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Test Boring TB-124

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.5	CONCRETE FLOOR	
2	NA	S-1	0-4	30	NA	0.5	0.5	Brown, Silty fine Sand and fine to medium Gravel, damp (FILL)	
3							0.5	Dark Brown, Silty fine to medium Sand, Coal fragments, little Gravel, damp (FILL)	
4							0.5		
5							0.5	Brown, medium to coarse SAND and fine to coarse GRAVEL, trace Silt, damp	
6	NA	S-2	4-8	60	NA	0.7	0.5		
7							0.5		
8							0.0		
9							0.5	...some Silt	
10	NA	S-3	8-12	80	NA	0.5	0.5		
11							0.5		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-124

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Direct Push

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 12.0' Borehole Diameter: 2"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring TB-125

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1							0.7	CONCRETE FLOOR (4 inches thick)	
								Tan, Silty fine Sand, little Ash, some Gravel (FILL)	
2	NA	S-1	0-4	70	NA	0.6	0.6	Brown, medium Sand and fine to medium Gravel, damp (FILL)	
3							0.6		
4							0.5	Dark Brown, Clayey fine Sand, little Gravel, moist (FILL)	
5							0.6	Red/Brown, fine to medium SAND and fine to medium GRAVEL damp	
6	NA	S-2	4-8	60	NA	0.6	0.6	...medium to coarse SAND, some Gravel	
7							0.6		
8							0.6		
9							0.6		
10	NA	S-3	8-12	70	NA	0.6	0.6		
11							0.6		
12								Bottom of Test Boring @ 12.0'	
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-125

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: W. Batiste  
 Drilling Contractor: DAY  
 Sampling Method: Hand Held Geoprobe

**Test Boring TB-126**

Page 1 of 1

Ground Elevation: -- Datum: --  
 Date Started: 7/2/2014 Date Ended: 7/2/2014  
 Borehole Depth: 12' Borehole Diameter: 1.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	NA	S-1	0.5-2.5	60	NA	0.0	0.0	CONCRETE FLOOR (6 inches thick)	
2						0.0	0.0	Brown, SAND, some fine to medium Gravel, trace Silt, moist	
3	NA	S-2	2.5-4.5	100	NA	0.0	0.0		
4						0.0	0.0		
5	NA	S-3	4.5-6.5	30	NA	0.0	0.0	Coarse Gravel	
6						0.0	0.0		
7	NA	S-4	6.5-8.5	40	NA	0.0	0.0		
8						0.0	0.0		
9	NA	S-5	8.5-10.5	50	NA	0.0	0.0		
10						0.0	0.0		
11	NA	S-6	10.5-12.5		NA	0.0	0.0	...wet	
12								Bottom of Test Boring @ 12'	
13									
14									
15									
16									

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**Test Boring TB-126**

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**TEST BORING LOGS:  
MW-B THROUGH MW-N**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Direct Push & Split Spoon

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/10/2013 Date Ended: 9/11/2013  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 20.61' (9/11/13) through augers

Test Boring MW-B

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1		S-1	0-2	100			0.2	Brown, medium to coarse Gravel, some Ash/Brick, damp (FILL)	
2							0.0	Brown, some Red Brick, trace Sand, damp (FILL)	Test boring advanced to 8 feet bgs via direct-push methods and completed to 28 feet bgs with H S A and split spoon samples
3		S-2	2-4	25	14		0.0		
4							0.0		
5		S-3	4-6	25	14		0.0		
6							0.0		
7		S-4	6-8	20	5		0.0	...some Brick and Concrete material, damp (FILL)	
8							0.0		
9							0.1		
10							0.0		
11	16	S-5	10-12	82.5	74		0.0	Very dense, Gray-Brown, coarse SAND, some fine to coarse Gravel, moist	
12	42						0.2	Very dense, Gray-Brown, SILT, fine to coarse Sand, some fine to coarse Gravel, moist	
13	10	S-6	12-14	60	65		0.3	Very dense, Gray-Brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt, moist	
14	35						0.0		
15	23	S-7	14-16	72.5	51		0.1		
16	28						1.5		
	43						2.6	Gray, Silty fine to medium SAND and medium to coarse Gravel, moist	
	50	S-8	16-16.5	10	50		0.0		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-B

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Direct Push & Split Spoon

Test Boring MW-B

Page 2 of 2

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/10/2013 Date Ended: 9/11/2013  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 20.61' (9/11/13) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17									
18	37						41.9	Very dense, Gray-Brown, silty fine to coarse SAND, some medium to coarse Gravel, moist, chemical/petroleum odor	
19	50	S-9	18-19.5	60	50+	117	55.4		
	50/4								
20							8.5		
21	37	S-10	20-21	45	50+	84.5			
	50/4						31.1		
22									
23	14	S-11	22-24	80	51	750		Gray, fine to coarse SAND and fine to coarse GRAVEL, wet, strong chemical/ petroleum odor	
	24						359		
	27								
24									
	24	S-12	24-25.8	75			605	...trace Silt	Petroleum sheen observed at 25.0'
25							237		
	50						305		
	50.3						278		
26									
	37	S-13	26-27	43	50+	67.2	701		
27							283		
	50/4								
28								Bottom of Hole @ 28.0'	
29									
30									
31									
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
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Test Boring MW-B

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Split Spoon

**Test Boring MW-C**

Page 1 of 2

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/11/2013 Date Ended: 9/11/2013  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.73' (9/12/13) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	4	S-1		100	11		0.2	Gray-Brown, some crushed Rock, some fine to coarse Sand, damp (FILL)	
	5						0.0		
	6						0.2		
2	6	S-2		50	11		0.0		
	5						0.0		
	6						0.0		
3	5	S-3		43	13		0.0	Dense, Brown, Silty medium to coarse SAND, some medium to coarse Gravel, damp	
	6						0.0		
	6						0.0		
4	4	S-4		56	11		0.0	...very dense, trace fine Gravel, moist	
	4						0.0		
	7						0.0		
7	7	S-5		39	10		0.0	Dense, Brown, medium to coarse SAND and fine to medium GRAVEL, little Silt, moist	
	4						0.0		
	4						0.0		
8	7	S-6		59	34		0.0	...very dense, Gray-Brown	
	7						0.0		
	7						0.0		
8	4	S-7		58	43		0.0		
	6						0.0		
	4						0.0		
9	4	S-8		59	67		0.0		
	5						0.0		
	5						0.0		
10	10	S-7		58	43		0.0		
	14						0.0		
	20						0.0		
11	25	S-8		59	67		0.0		
	10						0.0		
	20						0.0		
12	20	S-7		58	43		0.0		
	23						0.0		
	25						0.0		
13	8	S-8		59	67		0.2		
	28						0.0		
	39						0.0		
14	45	S-8		59	67		0.0		
							0.0		
							0.0		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-C**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Split Spoon

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/11/2013 Date Ended: 9/11/2013  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.73' (9/12/13) through augers

Test Boring MW-C

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17	35	S-9		58	94		0.0	Very dense, Gray-Brown, medium to coarse SAND and fine to coarse GRAVEL, little Silt, moist	
	44						0.4		
	50/4						0.0		
18	17	S-10		46	79		0.0		
	39						0.0		
	40						0.0		
19	40	S-11		58	21		0.0		
	25						0.0		
20	10	S-12		27	18		0.0	Medium dense, Gray-Brown, fine to coarse SAND, some fine to coarse GRAVEL, little Silt, wet	
	11						0.0		
	10						0.0		
21	9	S-13		73	43		0.8	Very dense, Gray-Brown, fine to coarse SAND and fine to medium GRAVEL, trace Silt	
	20						0.2		
	23						0.0		
22	17	S-14		65	37		0.2	...some fine rounded Gravel	
	26						0.0		
	17						0.0		
23	9						0.0	End of Boring @ 28.0'	
	20						0.0		
	27						0.0		
24	9						0.0		
	20						0.0		
	27						0.0		
25	9						0.0		
	20						0.0		
	27						0.0		
26	9						0.0		
	20						0.0		
	27						0.0		
27	9						0.0		
	20						0.0		
	27						0.0		
28	9						0.0		
	20						0.0		
	27						0.0		
29	9						0.0		
	20						0.0		
	27						0.0		
30	9						0.0		
	20						0.0		
	27						0.0		
31	9						0.0		
	20						0.0		
	27						0.0		
32	9						0.0		
	20						0.0		
	27						0.0		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-C

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Split Spoon

**Test Boring MW-D**

Page 1 of 2

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/12/2013 Date Ended: 9/12/2013  
 Borehole Depth: 30.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.7' (9/12/13) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	7	S-1	0-2	32	11		0.0	Brown, Sand and Gravel, little Roots, damp (FILL)	
	5						0.0		
2	6	S-2	2-4	56	9		0.0	Loose Brown, coarse SAND, some fine to medium Gravel, trace Silt, damp	
	4						0.0		
	5						0.0		
3	7	S-3	4-6	33	14		0.0	...medium dense	
4	6						0.0		
5	8						0.0		
6	12	S-4	6-8	61	39		0.0	Dense, Brown, fine to coarse SAND and coarse GRAVEL, trace Silt, damp	
7	15						0.0		
	18						0.0		
8	30	S-5	8-10	46	52		0.0	...very dense	
9	15						0.0		
	22						0.0		
10	40	S-6	15-16	58	58		0.0	...some Silt, moist	
11	9						0.0		
12	17						0.0		
13									
14									
15									
16	41						0.0		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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**Test Boring MW-D**

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Split Spoon

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/12/2013 Date Ended: 9/12/2013  
 Borehole Depth: 30.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.73' (9/12/13) through augers

Test Boring MW-D

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17	35						0.0 0.0	Very dense, Brown, medium to coarse SAND and fine to coarse GRAVEL, some Silt, moist	
18									
19									
20									
21									
22									
23		S-7	22-24	73	68		0.0 0.0 0.0		
24							0.0	...Gray-Brown, little Silt	
25		S-8	24-26	44			0.0 0.0 0.0		
26									
27		S-9	26-28	55	57		37.6 157 153	Very dense, Dark Gray, fine to coarse SAND and fine to coarse Gravel, some Silt, wet ...petroleum odor	
28							60.1		
29		S-10	28-30	70	40		184 279 170 236	...Dense, fine to coarse SAND and medium to coarse GRAVEL, petroleum odor	
30									
31								End of Boring @ 30.0'	
32									

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Test Boring MW-D

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Direct Push & Split Spoon

**Test Boring MW-E**

Page 1 of 2

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/12/2013 Date Ended: 9/13/2013  
 Borehole Depth: 33.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 26.63' (9/13/13) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	CONCRETE	Monitoring Well MW-E
							0.0	Brown, Sand and Gravel, with some Red Brick and Concrete, damp (FILL)	
2		S-1	0-4	51			0.0		
3							0.0		
4							0.0		
5							0.0		
6		S-2	4-8	73			0.0		
7							0.0		
8							0.0		
9							0.0		
10		S-3	8-12	75			0.0		
11							0.0	Brown, medium to coarse SAND and fine GRAVEL, moist	
12							0.0		
13							0.0		
14		S-4	12-16	85			0.0		
15							0.0	Brown, Silty medium to coarse SAND, some fine Gravel, moist	
16							0.0		

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**Test Boring MW-E**

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 Olean, NY  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus  
 Sampling Method: Direct Push & Split Spoon

Ground Elevation: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Date Started: 9/12/2013 Date Ended: 9/13/2013  
 Borehole Depth: 33.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 26.63' (9/13/13) through augers

Test Boring MW-E

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17									Test boring advanced to 16.6 feet bgs via direct push methods and completed to 33.0 feet bgs with H S A with split spoon samples collected at 5-foot intervals
18			16-20						
19									
20		S-5	20-21	10.5			0.0	Brown, Silty fine to coarse SAND, some fine Gravel, moist	
21									
22									
23									
24									
25									
26		S-6	25-27				...	wet	
27									
28									
29									
30							0.6	...Gray-Brown, some fine to coarse Gravel	
31		S-7	30-32				0.2 0.4		
32									

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Test Boring MW-E

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/17/2014 Date Ended: 6/17/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 19.39' (6/17/14) through augers

Test Boring MW-F

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
1						129	CONCRETE SLAB	
							Gray-Brown, medium to coarse Sand, some angular Gravel (FILL)	
2	NA	S-1	0-4	68	NA	142	Brown/Black, Sand and Gravel, little crushed red Bricks, trace Silt, moist (FILL)	
3						79.1	Tan, coarse Sand and Gravel, trace Silt, moist (FILL)	
4						121	Gray, fine Sand, damp (FILL)	Faint Petroleum Odor
5							Brown/Tan, coarse SAND and GRAVEL some broken Cobbles, trace Silt, damp	No Petroleum Odor Evident
6	NA	S-2	4-8	57	NA	115		
7						122		
8						19.4	...Gray, some fine Sand	
9						18.2		
10	NA	S-3	8-12	61	NA	8.5		
11						15.2		
12						5.5	...medium to coarse SAND and GRAVEL, trace Silt	
13								
14	NA	S-4	12-16	36	NA	3.7		
15								
16								

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Test Boring MW-F

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Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/17/2014 Date Ended: 6/17/2014  
 Borehole Depth: 28.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 19.39' (6/17/14) through augers

Test Boring MW-F

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
17						2.0	Brown, SAND and GRAVEL, little broken Cobbles, trace Silt, moist	
18	NA	S-5	16-20	50	NA	1.2	...wet	
19						50.6	...gray	
20						44.9		
21							...coarse SAND and GRAVEL	Petroleum Odor
22	NA	S-6	20-24	29	NA	76.8		
23						81.9		
24						81.5		
25								
26	NA	S-7	24-28	50	NA	241		
27						315		
28							Bottom of Test Boring @ 28.0'	
29								
30								
31								
32								

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Test Boring MW-F

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/26/2014 Date Ended: 6/26/2014  
 Borehole Depth: 33.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring MW-G

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
17								
18						1495		
19	NA	S-6	18-20	70	NA	19.6		
20						8999		
21						3.6		
22	NA	S-6	20-24	40	NA	144		
23						0.0	...wet	
24						0.0		
25						115	...gray	Petroleum Odors 24' - 32'
26	NA	S-7	24-28	70	NA	1467		
27						91.2		
28						143		
29						223		
30						112	Gray, medium to coarse SAND, trace Gravel, wet	
31						608	Gray, fine to coarse GRAVEL, little coarse Sand, wet	
32	NA	S-8	28-33	60	NA	130	Gray, Clayey medium to coarse SAND and fine to coarse GRAVEL trace Silt, wet	
33						136		
34						141		
35						1264		
36						141	No Sample 32-33'	
37								

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Test Boring MW-G

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 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

Ground Elevation: -- Datum: --  
 Date Started: 6/20/2014 Date Ended: 6/22/2014  
 Borehole Depth: 30.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 16.77' (6/22/14) through augers

Test Boring MW-H

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2	S-1	0-2	50	16	0.0	0.1	CONCRETE (0.3 feet thick)	
	4						0.0	Cinders and Ash	
	12						0.0	Black, Cinders and Sand, some Ash, trace crushed red Brick (FILL)	
2	3						CONCRETE SLAB		
3	2	S-2	2-4	45	3	1.0	2.2	Black, Cinders, little Ash, trace red Bricks, trace Gravel (FILL)	
	2						1.4	...broken Gravel layer	
4	1						0.6	Brown, medium to coarse Sand, little Gravel, trace Cinders, trace Clay (FILL)	
	1						0.0	...some crushed red Brick	
5	4	S-3	4-6	70	5	0.0	0.0	...clayey medium to coarse Sand	
	1						0.0	Brown, coarse SAND and GRAVEL, trace Silt, damp	
6	8						0.0	...medium dense	
	11	S-4	6-8	90	18	0.0	0.0	...medium to coarse SAND and GRAVEL, little Silt	
7	0.0								
8	5						0.1	...dense	
	2						0.7		
9	9	S-5	8-10	5	20	0.6	0.0		
	11						0.0		
10	16						0.7		
	6	S-6	10-12	75	47	0.6	0.6		
25	0.4								
11	22						0.6		
	26						0.7		
12	42	S-7	12-14	35	50	0.4	1.1		
	50/3						0.7		
13	10	S-8	14-16	65	51	0.4	3.7		
	26						1.8		
14	25						1.4		
	38								

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Test Boring MW-H

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 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/20/2014 Date Ended: 6/22/2014  
 Borehole Depth: 30.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 16.77 (6/22/14) through augers

Test Boring MW-H

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17	19						0.7	...Gray, little broken Cobbles	Faint Petroleum Odor  Petroleum Odor  ↓  Strong Petroleum Odor  ↓
	20	S-9	16-18	90	40	0.3	0.8		
	20						0.0		
18	21						0.3	...wet	
	8						6.8		
19	12	S-10	18-20	25	32	0.2	3.7	Gray, medium to coarse SAND, some Gravel, trace Silt	
	20						0.4		
20	16						4.7	...medium to coarse SAND and GRAVEL	
	4						4.7		
21	5	S-11	20-22	58	21	150	339	...some broken Cobbles	
	16						159.8		
22	13						13.7	Bottom of Test Boring @ 30.0'	
	13	S-12	22-24	45	30	186.7	89.9		
23	14						64.4		
	16								
24	15						33.9		
	13	S-13	24-26	55	58	487.6	306.7		
25	27						64.0		
	25								
26	21						27.4		
	20	S-14	26-28	58		321	162.9		
27	18						393.8		
	16								
28	9						67.9		
	32	S-15	28-30	80	67	344.5	925.9		
29	35						62.5		
	29								
30									
31									
32									

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Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 33.5' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.88' (6/24/14) through augers

Test Boring MW-I

Page 1 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
1						0.0	CONCRETE FLOOR / SUB-BASE	
2	NA	S-1	0-4	1.31	NA	0.0	Black, Cinders/Ballast, little Concrete, little Gravel, trace Silt (FILL)	
3						0.0	...some crushed red Brick, little Silt	
4						0.0	...some broken Concrete, trace Glass (FILL)	
5						0.0		
6	NA	S-2	4-8	1.64	NA	0.0	Brown, silty medium to coarse Sand and sub-angular to sub-rounded Gravel, broken Cobbles (sub-rounded) (FILL)	
7						0.0		
8						0.0		
9						0.0		
10	NA	S-3	8-12	3.15	NA	0.0	Black, Cinders/Ash, trace crushed red Brick	
11						0.0	Tan/Brown, medium to coarse SAND and GRAVEL, trace Silt, damp	
12						0.8		
13						1.7		
14	NA	S-4	12-16	2.64	NA	1.7		
15						2.0		
16						0.8	...Brown, silty fine to medium SAND, little Gravel	

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-I

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 33.5' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.88' (6/24/14) through augers

Test Boring MW-I

Page 2 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
17	NA	S-5	16-18	1.51	NA	0.7	Brown, medium to coarse SAND, some sub-rounded Gravel, trace Silt, damp	
						1.2		
						0.8		
18	NA	S-5	18-20	0.6	NA	1.0		
						1.3		
19								Frequent Cobbles during Augering
20								
21	NA	S-6	20-24	2.07	NA	1.2		
						1.4		
						2.1		
22	NA	S-6	20-24	2.07	NA	1.5		
						1.3		
23							...medium to coarse SAND and sub-angular GRAVEL, wet	
24	NA	S-7	24-28	1.04	NA	1.2		
						2.1		
25								Faint Petroleum Odor
26								
27	NA	S-8	28-32	NA	NA	78.3		
						2.1		
28							...Gray	Petroleum Odor
29							...medium to coarse SAND, little Gravel	
30	NA	S-8	28-32	NA	NA	64.6		
						67.9		
31							...medium to coarse SAND and GRAVEL, little Silt	↓
32							164.7	
							17.4	

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 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
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 5) Headspace PID readings may be influenced by moisture

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/24/2014 Date Ended: 6/24/2014  
 Borehole Depth: 33.5' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.88' (6/24/14) through augers

Test Boring MW-I

Page 3 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
33								Petroleum odor ↓
34							Bottom of Test Boring @ 33.5'	
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/19/2014 Date Ended: 6/19/2014  
 Borehole Depth: 36.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.63' (6/19/14) through Augers

Test Boring MW-J

Page 1 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
1							CONCRETE SLAB	Advanced through Slab/Concrete using Coring Device
2						0.5	Gray-Brown, coarse Sand and broken Concrete, little Gravel (FILL)	
3	NA	S-1	2-4	38	NA	0.4	3.4 Brown-Black, fine to medium Sand, little Gravel, little Cinders, trace red Brick, trace Silt (FILL)	
4						0.2	0.2	
5						0.0	0.0 ...Brown, medium to coarse Sand	
6	NA	S-2	4-8	61	NA	0.0	0.0 Brown, medium to coarse SAND, little Gravel, trace Silt, moist	
7						0.0	0.0	
8						0.0	0.0	
9						0.0	0.0	
10	NA	S-3	8-12	46	NA	0.0	0.0 ...medium to coarse SAND and GRAVEL	
11						0.0	0.0 ...medium to coarse some sub-rounded Gravel	
12						0.0	0.0 Brown, coarse SAND and GRAVEL, little broken Cobbles	
13						0.0	0.0	
14	NA	S-4	12-16	45	NA	0.0	0.0	
15						0.0	0.0	
16						0.0	0.0	

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/19/2014 Date Ended: 6/19/2014  
 Borehole Depth: 36.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.63' (6/19/14) through augers

Test Boring MW-J

Page 2 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
17						0.0		
18	NA	S-5	16-20	63	NA	0.2	Frequent Cobbles during augering	
19						0.9		
20						0.4		
21						0.0		
22	NA	S-6	20-24	67	NA	0.0		
24						0.0	Brown, medium to coarse SAND, little Gravel, trace Silt, wet	
25						0.0	Brown, sub-rounded to angular GRAVEL, little Sand, wet	
26	NA	S-7	24-28	26	NA	0.0	...some coarse SAND	
27						0.0		
28						0.0		
29						0.0	...medium to coarse SAND and sub-rounded to angular GRAVEL	
30	NA	S-8	28-32	58	NA	0.0		
31						0.0		
32						0.0		

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/19/2014 Date Ended: 6/19/2014  
 Borehole Depth: 36.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 23.63' (6/19/14) through augers

Test Boring MW-J

Page 3 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
33							Brown, medium to coarse SAND, little Gravel, wet	
34	NA	S-9	32-36	52	0.0	0.0	Brown, coarse SAND and GRAVEL, trace Silt, wet	
35								
36							Bottom of Test Boring @ 36.0'	
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								

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Test Boring MW-J

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 30.0' Borehole Diameter: 6"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring MW-K

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
1							ASPHALT	
2	NA	S-1	0-4	50	NA	2.1	Black and Tan, crushed Rock with pieces of Asphalt, damp (FILL)	
3								
4						12.2	Brown, fine Gravel, some coarse Sand, damp (FILL)	
5						98.9	Brown, medium to coarse SAND and fine to coarse GRAVEL moist	
6	NA	S-2	4-8	40	NA	2.2		
7						1.5		
8						0.0		
9	NA	S-3	8-10	70	NA	0.0		
10						0.0		
11						0.4		
12	NA	S-3	10-14	55	NA	0.0		
13						0.0		
14						0.2		
15	NA	S-4	14-18	60	NA	0.0		
16								

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 5) Headspace PID readings may be influenced by moisture

Test Boring MW-K

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 30.0' Borehole Diameter: 6"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring MW-K

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	Sample Description	Notes
17						0.5		
18						0.0	...wet	
19	NA	S-5	18-20	50	NA	0.0		
20						0.0		
21						0.0		
22	NA	S-6	20-24	50	NA	0.0	...little brokenCobbles	
23						0.0		
24						0.2	Brown, medium to coarse SAND, little Gravel, wet	
25						0.0	Brown, coarse SAND and fine to coarse GRAVEL, trace Silt, wet	
26	NA	S-7	24-28	60	NA	0.0		
27						0.0	Gray, Clayey medium to coarse SAND, some fine to coarse Gravel, wet	
28						0.0		
29	NA	S-8	28-30	70	NA	0.0		
30						0.0		
31							Bottom of Test Boring @ 30.0'	
32								

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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Test Boring MW-K

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: T. Default  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Split Spoon

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Test Boring MW-L

Page 1 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	9	S-1	0-2	55	17		2.0	CONCRETE FLOOR	
	8						2.1		
	9						2.0		
2	3	S-2	2-4	45	4		1.0	...Brick fragments	
	2						0.9		
3	2						1.1		
	5								
4	6	S-3	4-6	20	11		4.7		
	7								
5	7								
	7								
6	7	S-4	6-8	50	11		3.7		
	5						3.1		
7	6						3.3		
	8								
8	4	S-5	8-10	50	13		1.2		
	8						1.0		
9	5								
	6								
10	5	S-6	10-12	65	22		0.9		
	9						0.7		
11	13						0.8	Medium dense, brown, fine to medium SAND, little Gravel, little Silt, trace Clay, damp	
	20								
12	24	S-7	12-14	60	52		0.4	...very dense	
	28						0.5		
13	24								
	20								
14	11	S-8	14-16	70	56		0.5		
	31						0.4		
15	25						0.8		
	35								
16									

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Test Boring MW-L

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 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring MW-L

Page 2 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17	30						0.4		
	40	S-9	16-18	60	50+	-	0.5		
	40						0.9		
18	50								
	16						0.3	Brown, medium SAND and fine to coarse GRAVEL, trace Silt, damp	
19	25	S-10	18-20	45	50+	-	0.9		
	35								
20	31								
	13						0.1		
21	22	S-11	20-22	50	44	-	0.3		
	20						0.1		
22	18								
	20						0.0	...medium dense, wet	
23	14	S-12	22-24	25	25	130			
	11								
24	9								
	6						264		
25	4	S-13	24-26	15	9	-		...loose	
	5								
26	4								
	1						38	...medium to coarse SAND and fine to medium GRAVEL	
27	2	S-14	26-28	25	3	-			
	1								
28	1								
	11						0.0	...dense	
29	15	S-15	28-30	45	37	-			
	22								
30	23								
	11						0.3		
31	24	S-16	30-32	50	37		0.2		
	13								
32	14								

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 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): \_\_\_\_\_

Test Boring MW-L

Page 3 of 3

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
33	6 12 9 5	S-17	32-34	65	21	NA	0.5 0.5 0.5	Medium dense, some fine to coarse SAND, medium to coarse Gravel, wet	
34								Bottom of Test Boring @ 34.0'	
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-L

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 28.0' Borehole Diameter: 6"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring MW-M

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2	S-1	0-2	60	5		0.0	TOPSOIL	
	2						0.0	Brown, Sandy Silt, little Brick, little Gravel, trace Slag, moist (FILL)	
	3						0.0		
2	2	S-2	2-4	70	2		0.0		
	1						0.0	Brown, Silty Clay, little Gravel, trace Sand, moist (FILL)	
3	1	S-3	4-6	50	11		0.0		
	1						0.0		
4	1	S-4	6-8	40	15		0.0		
	5						0.0	Medium dense, brown, medium to coarse SAND and fine to coarse GRAVEL, some Silt, damp	
5	5	S-5	8-10	70	15		0.0		
	6						0.0		
6	8	S-6	10-12	50	33		0.0		
	5						0.0	...dense, trace Silt, trace Clay	
7	8	S-7	12-14	60	37		0.0		
	7						0.0		
8	9	S-8	14-16	50	47	NA	159		
	4						0.0		
9	7	S-5	8-10	70	15		0.0		
	8						0.0	...little Clay, little Silt	
10	4	S-6	10-12	50	33		0.0		
	17						0.0		
11	16	S-7	12-14	60	37		0.0		
	18						0.0		
12	18	S-8	14-16	50	47	NA	159		
	10						0.0		
13	19	S-7	12-14	60	37		0.0		
	18						0.0		
14	20	S-8	14-16	50	47	NA	159		
	21						1.4		
15	26	S-8	14-16	50	47	NA	0.4		
	23						0.4		
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-M

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Ground Elevation: -- Datum: --  
 Date Started: 6/16/2014 Date Ended: 6/16/2014  
 Borehole Depth: 28.0' Borehole Diameter: 6"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date):

Test Boring MW-M

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17	34						0.0		
	13	S-9	16-18	60	31				
	18						0.0		
18	20								
	10						5.4	...very dense, wet, some brokenCobbles	
19	26	S-10	18-20	70	50+		122	....Gray/Black, little broken Cobbles, little Silt	Petroleum Odor
	36						73.6		
20	35								...black staining
	1						21.1		
21	26	S-11	20-22	65	50+		68.4		
	31						16.5	...some Clay	
22	30								
	8						178		...less staining
23	25	S-12	22-24	70	40		495		
	15						324		
24	6								...black staining
	5						279		
25	9	S-13	24-26	45	29		173		
	20						1079	...little Sand	
26	19								...less staining
	5						34.5	Gray, Silty CLAY, some fine to medium Sand, wet	
27	5	S-14	26-28	80	14				
	9								
28	8								
29								Bottom of Test Boring @ 28.0'	
30									
31									
32									

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Test Boring MW-M

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies/C. Hampton  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Split Spoon

Test Boring TB-118 (MW-N)

Ground Elevation: -- Datum: -- Page 1 of 3  
 Date Started: 6/18/2014 Date Ended: 6/19/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.85 (6/19/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
1	1	S-1	0-2	25	NA		0.0	CONCRETE FLOOR - 2 Layers (0.85 feet thick)	
	2							Brown, medium to coarse Sand and Gravel, little Silt, damp (FILL)	
2	4	S-2	2-4	10	NA		0.0	...some Gravel	
	3								
3	2	S-3	4-6	50	NA	0.0	0.0		
	3								
4	2	S-4	6-8	50	NA	0.0	0.0	...little Clay, Coal fragments	
	3								
5	2	S-5	8-10	30	NA	0.0	0.0	...some broken Cobbles, Brick fragments	
	1								
6	1	S-6	10-12	80	NA	0.0	0.0		
	1								
7	1	S-7	12-14	50	NA	0.0	0.0		
	1								
8	1	S-8	14-16	70	NA	0.0	0.0	Brown, medium to coarse SAND and fine to coarse GRAVEL, trace Silt, moist	
	1								
9	2						0.4		
	1								
10	1								
	1								
11	7								
	15								
12	5								
	12								
13	25							weathered Concrete	
	33								
14	8								
	22								
15	23								
	26								
16									

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Test Boring TB-118 (MW-N)

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

**Test Boring TB-118 (MW-N)**

Page 2 of 3

Ground Elevation: -- Datum: --  
 Date Started: 6/19/2014 Date Ended: 6/19/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.85 (6/19/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
17		S-9	16-18	90	NA	0.0	0.0 0.2 0.1		
18							0.0	...little Silt	
19		S-10	18-20	60	NA	0.0	0.0 0.0		
20							0.5		
21		S-11	20-22	70	NA	0.0	0.3 0.1		
22							0.1	Medium to coarse SAND, lense	
23		S-12	22-24	80	NA		1.6 0.0	...wet	
24							0.7	...frequent Cobbles	Petroleum Odor
25		S-13	24-26	60	NA	3702	2.5 170	...Gray	↓ Faint Petroleum odor
26							28.6		↓
27		S-14	26-28	75	NA	6578	12.4 30.5 501.2	Gray, medium to coarse SAND and GRAVEL, trace Silt, wet	↓ Petroleum odor
28							165		↓
29		S-15	28-30	45	NA	35.8	92.1 73.8		↓
30							78.9		↓
31		S-16	30-32	55	NA	656.2	58.6 532		↓
32									↓

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**Test Boring TB-118 (MW-N)**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling  
 Sampling Method: Auger & Macrocore

Test Boring TB-118 (MW-N)

Ground Elevation: -- Datum: -- Page 3 of 3  
 Date Started: 6/18/2014 Date Ended: 6/18/2014  
 Borehole Depth: 34.0' Borehole Diameter: 4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 22.85 (6/19/14) through augers

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID (ppm)	Sample Description	Notes
33	NA	S-17	33-34	60	295.3	127.2			Petroleum odor ↓
34						139.6	...coarse SAND and GRAVEL		
35						199.4	Bottom of Test Boring @ 34.0'		
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

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Test Boring TB-118 (MW-N)

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**TEST BORING LOGS:**

**SUB, UST, VLT, SUMP, SV, AND DTB LOCATIONS**

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Day Environmental, Inc.  
 Sampling Method: Hand Tool

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 7/31/2014 Date Ended: 7/31/2014  
 Borehole Depth: 0.7' Borehole Diameter: 3"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring SUB-1

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	-	S-1	0.4- 0.7	100	-	-	-	Concrete (0.4') Brown, fine to medium Sand and Gravel, some silt, damp (FILL)	Boring completed through transformer room, concrete floor
2								End of Boring@ 0.7'	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

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Test Boring SUB-1

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: C. Hampton  
 Drilling Contractor: Day Environmental, Inc.  
 Sampling Method: Hand Tool

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 7/31/2014 Date Ended: 7/31/2014  
 Borehole Depth: 0.8' Borehole Diameter: 3"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring SUB-2

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	-	S-1	0.5- 0.8	100	-	-	-	Concrete (0.5') Brown, medium to coarse Sand and Gravel, trace silt, damp (FILL)	Boring completed through transformer room, concrete floor
2								End of Boring@ 0.8'	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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Test Boring SUB-2

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 20.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring UST-1

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	CONCRETE FLOOR	
2	-	S-1	0-4	60	-	54.6	0.0	Brown, fine Sandy Silt, little fine to medium Gravel, moist (FILL)	
3							1.3		
4							3.4	Dark Brown, fine Sand, some Silt, trace fine Gravel, moist (FILL)	
5							5.6	...Brown	
6	-	S-2	4-8	90	-	7.3	5.4		
7							3.8		
8							4.3		
9							1.4		
10	-	S-3	8-12	70	-	165	3.2		
11							54.8	...wood chips	
12							72	...Dark Brown	
13							80		
14	-	S-4	12-16	80	-	170	90	Brown, Sand, little Silt, some fine to coarse Gravel, moist (FILL)	
15							100		
16							120		

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Test Boring UST-1

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 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 20.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring UST-1

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17							7.6	...gray	
18	-	S-5	16-20	70	-	8.8	0.4	Brown, SAND, some fine to coarse Gravel, little Silt, moist	
19							1.0		
20							0.8		
21								End of Boring @ 20.0'	
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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Test Boring UST-1

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 20.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring UST-2

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							1.7	CONCRETE FLOOR	
2	-	S-1	0-4	50	-	1.0	0.4	Brown, fine Sand, some Silt, some fine to medium Gravel, moist (FILL)	
3							2.0	...dark brown	
4							1.1		
5							3.3		
6	-	S-2	4-8	60	-	0.8	1.8		
7							0.6		
8							1.2		
9							0.4		
10	-	S-3	8-12	50	-	0.5	1.1		
11							0.8		
12							0.7		
13							40		
14	-	S-4	12-16	80	-	101	50	...light brown	
15							65		
16							80		

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 20.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring UST-2

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17							0.8	Light brown, fine SAND, some fine to coarse Gravel, little Silt, moist	
18	-	S-5	16-20	80	-	0.6	1.2		
19							1.4		
20							1.7		
21								End of Boring @ 20.0'	
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring UST-2

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 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Day Environmental, Inc.  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 12/2/2014 Date Ended: 12/2/2014  
 Borehole Depth: 5.1' Borehole Diameter: 1.5"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

**Test Boring VLT-1**

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Concrete (1.5')	Boring completed through vault floor
2	-	S-1	1.5-3.5	30	-	0.0	0.0	Brown, coarse SAND, some fine to medium Gravel, little silt, moist	
3							0.0		
4	-	S-2	3.5-5.1	50	-	0.0	0.0		
5							0.0		
6								End of Test Boring @5.1'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring VLT-1**

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Day Environmental, Inc.  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 12/2/2014 Date Ended: 12/2/2014  
 Borehole Depth: 4.3' Borehole Diameter: 1.5"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

**Test Boring VLT-2**

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Concrete (1.7')	<b>Boring completed though bottom of sump located ~ 0.5 feet below vault floor elev.</b>
2	-	S-1	1.7-3.7	30	-	0.0	0.0	Brown, coarse SAND, some fine Gravel, little Silt, moist	
3							0.0	...little Clay	
4	-	S-2	3.7-4.3	70	-	0.0	0.0		
5								End of Boring @ 4.3'	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring VLT-2**

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Day Environmental, Inc.  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 12/2/2014 Date Ended: 12/2/2014  
 Borehole Depth: 2.0' Borehole Diameter: 1.5"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring VLT-3

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	-	S-1	0.5 - 2	30			0.0	Concrete (0.5')	Boring completed through vault floor - 1 foot south of sump
2							0.0	Brown, fine to medium SAND and GRAVEL, damp	
3								End of Boring@ 2.0'	Collected sample VLT-3 (SC) from bucket of material cleaned out of sump on 11/20/14. Material is dark brown/black, viscous liquid with moderate to strong rancid oil-type odor.
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring VLT-3

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Day Environmental, Inc.  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 12/2/2014 Date Ended: 12/2/2014  
 Borehole Depth: 2.0' Borehole Diameter: 1.5"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring VLT-4

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	-	S-1	0.25-2'	45		0.0		Concrete (0.25') Brown, medium Sand, trace Brick, damp (FILL) Brown, coarse Sand and Gravel, little Brick, damp (FILL)	Dark brown, translucent, harden Resin material observed on sump sidewalls, collected sample; designated VLT-4 (SC)
2						0.0		Equipment Refusal @ 2.0'	
3									Boring completed though bottom of sump located - 0.5 feet below vault floor elev.
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring VLT-4

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Day Environmental, Inc.  
 Sampling Method: Direct Push

**Test Boring Basement Sump**

Page 1 of 1

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 12/2/2014 Date Ended: 12/2/2014  
 Borehole Depth: 2.6' Borehole Diameter: 1.5"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	-	S-1	0.9-2.5	100	-	20.7	16.9	Concrete (0.9') ..... Brown, SAND and GRAVEL, little Silt, moist	Boring completed though bottom of sump located ~ 6.3 feet below basement floor elev.
2									
3								Equipment refusal @ 2.5'	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring Basement Sump**

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 10.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Vapor Point Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring SV-27

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	-	S-1	0-4	70	-	0.2	0.0	Dark brown, Silt, some Roots, some fine Gravel, trace fine Sand, moist (FILL)	A 6-inch long double woven stainless steel screen attached to 3/8-inch Teflon lined tubing was inserted in the borehole with screened interval depths between -9.5 feet and 10 feet bgs. The borehole was backfilled with glass beads to 0.5 feet above the top of the screened interval, the remaining borehole was backfilled with bentonite.
2	-	S-1	0-4	70	-	0.2	0.7	Light brown, Silty fine Sand, little fine Gravel, trace Slag, moist (FILL)	
3	-	S-1	0-4	70	-	0.2	0.9		
4	-	S-1	0-4	70	-	0.2	0.8	...brown, coarse Sand	
5	-	S-2	4-8	60	-	0.1	0.0		
6	-	S-2	4-8	60	-	0.1	0.3		
7	-	S-2	4-8	60	-	0.1	0.1		
8	-	S-2	4-8	60	-	0.1	0.2		
9	-	S-3	8-10	10	-	0.0	0.2		
10	-	S-3	8-10	10	-	0.0	0.2	...Crushed Stone	
11	-	S-3	8-10	10	-	0.0	0.2	End of Boring @ 10.0'	
12	-	S-3	8-10	10	-	0.0	0.2		
13	-	S-3	8-10	10	-	0.0	0.2		
14	-	S-3	8-10	10	-	0.0	0.2		
15	-	S-3	8-10	10	-	0.0	0.2		
16	-	S-3	8-10	10	-	0.0	0.2		

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring SV-27

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 10.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Vapor Point Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring SV-28

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Dark Brown, fine to coarse Sand, some fine Gravel, trace Silt, moist (FILL)	A 6-inch long double woven stainless steel screen attached to 3/8-inch Teflon lined tubing was inserted in the borehole with screened interval depths between -9.5 feet and 10 feet bgs. The borehole was backfilled with glass beads to 0.5 feet above the top of the screened interval, the remaining borehole was backfilled with bentonite.
2	-	S-1	0-4	70	-	0.0	0.0	Brown, Silty fine Sand, little fine to medium Gravel, moist (FILL)	
3							0.0	...fine Sand, trace Silt	
4							0.4		
5							1.5		
6	-	S-2	4-8	60	-	0.1	1.0	...some pulverized Concrete	
7							1.2	...coarse sand	
8							1.1		
9	-	S-3	8-10	80	-	0.7	24.5	Brown, SAND, some fine to coarse Gravel, trace Silt, moist	
10								End of Boring @ 10.0'	
11									
12									
13									
14									
15									
16									

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Test Boring SV-28

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 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

**Test Boring SV-29**

Page 1 of 1

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 10.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Vapor Point Installed  Backfilled with Grout  Backfilled with Cuttings

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							15.3	Dark Brown, fine Sandy Silt, some fine to medium Gravel, little pulverized Concrete, moist (FILL)	A 6-inch long double woven stainless steel screen attached to 3/8-inch Teflon lined tubing was inserted in the borehole with screened interval depths between -9.5 feet and 10 feet bgs. The borehole was backfilled with glass beads to 0.5 feet above the top of the screened interval, the remaining borehole was backfilled with bentonite.
2	-	S-1	0-4	80	-	0.5	7.2		
3							3.3	...Brown	
4							3.3	...some Clay, trace fine Sand	
5							2.1		
6	-	S-2	4-8	60	-	0.4	1.2	...little hardened Resin	
7							7.7	Brown, Sand, some coarse Gravel, trace Silt, moist (FILL)	
8							2.3		
9	-	S-3	8-10	80	-	0.3	0.5	...trace hardened Resin	
10							0.7	...coarse Sand	
11								End of Boring @ 10.0'	
12									
13									
14									
15									
16									

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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
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**Test Boring SV-29**

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 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: DAY  
 Sampling Method: Hand Auger

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-1

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25								TOPSOIL	
0.50								Reddish Brown, medium to coarse Sand and fine Gravel, moist (FILL)	
0.75									
1.0	-	S-1	0-2	100	-	0.9	-	...Black	
1.25									
1.50								Tan, fine Sandy Clay, little fine to coarse Gravel, moist (FILL)	
1.75									
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

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 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring DTB-1

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 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-2

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25							0.3	Brown, fine Sandy Silt, little fine Gravel, trace hardened Resin, moist (FILL)	
0.50						0.0			
0.75						0.0			
1.0	-	S-1	0-2	100	-	0.1			
1.25						0.0			
1.50						0.0			
1.75						0.0			
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-3

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25							0.0	Dark Brown, fine Sandy Silt, some fine Gravel, little Roots, moist (FILL)	
0.50							0.0		
0.75							0.0	..Brown	
1.0	-	S-1	0-2	100	-	0.0			
1.25							0.0		
1.50							0.0		
1.75							0.0		
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring DTB-3

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-4

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25							4.6	Brown, Sandy Silt, some fine Gravel, moist (FILL) Hardened Resin	
0.50								Brown, fine Sand, some fine Gravel, little Silt, moist (FILL)	
0.75							0.3		
1.0	-	S-1	0-2	100	-	5.0			
1.25							1.0		
1.50									
1.75							0.8		
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring DTB-4

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-5

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25							0.2	Light Brown, fine Sand, trace Silt, little fine Gravel, moist (FILL)	
0.50							1.3	Dark Brown, fine Sandy Silt, trace fine Gravel, moist (FILL)	Slight chemical odor
0.75							8.2	...some Wood Chips	
1.0	-	S-1	0-2	100	-	6.5			
1.25							6.3		
1.50							0.0	...Brown	
1.75									
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring DTB-5

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-6

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25								Dark Brown, fine Sandy Silt, some fine to coarse Gravel, moist (FILL)	
0.50							0.5	...trace hardened Resin	
0.75							0.5	...Brown	
1.0	-	S-1	0-2	100	-	2.9			
1.25							0.3	...trace Clay	
1.50									
1.75							0.3		
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring DTB-6

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-7

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25							0.0	Dark brown, fine Sand, some Silt, some fine to medium Gravel, moist	
0.50									
0.75							0.0	...Brown	
1.0	-	S-1	0-2	100	-	0.0			
1.25							0.0		
1.50									
1.75							0.0		
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring DTB-7

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Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: W. Batiste, C. Hampton  
 Drilling Contractor: Nothnagle  
 Sampling Method: Direct Push

Ground Elevation: Unknown Datum: Unknown  
 Date Started: 11/25/2014 Date Ended: 11/25/2014  
 Borehole Depth: 2.0' Borehole Diameter: 2 1/4"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings

Test Boring DTB-8

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
0.25							2.1	Dark Brown, fine Sandy Silt, some fine to medium Gravel, moist (FILL)	
0.50									
0.75							4.3	...Brown	
1.0	-	S-1	0-2	100	-	2.0			
1.25							0.8	...little Clay	
1.50									
1.75							0.3		
2.0								End of Boring @ 2.0'	
2.25									
2.50									
2.75									
3.0									
3.25									
3.50									
3.75									
4.0									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring DTB-8

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**MONITORING WELL INSTALLATION DIAGRAMS**

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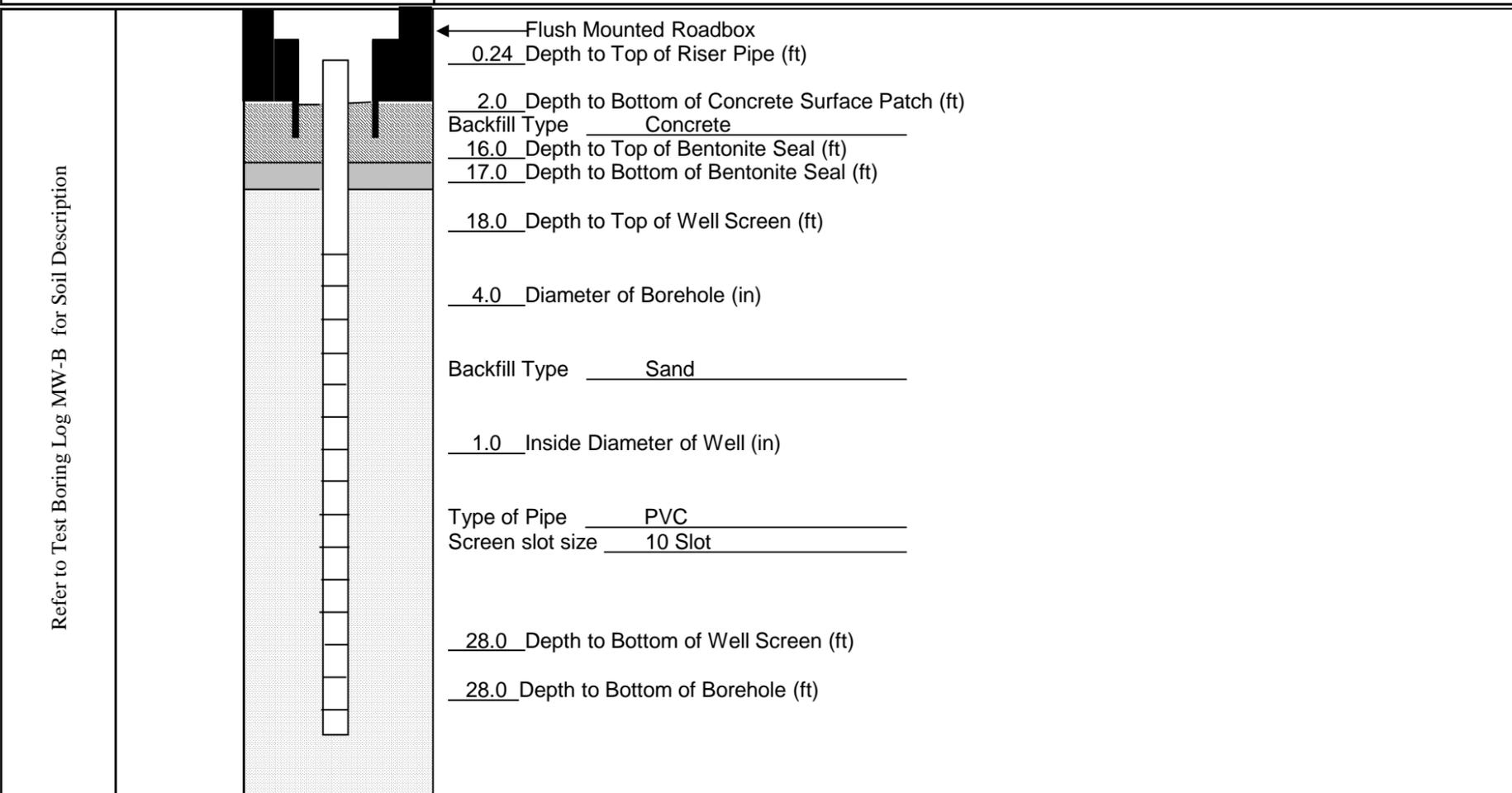
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus

MONITORING WELL MW-B

Monitoring Point Elevation 1429.82 Datum: NAVD 88  
 Date Started: 9/11/2013 Date Ended: 9/11/2013



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW- B

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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13

Project Address: 211 Franklin Street

Olean, New York

DAY Representative: Z. Tennies

Drilling Contractor: Applus

Monitoring Point Elevation 1430.1

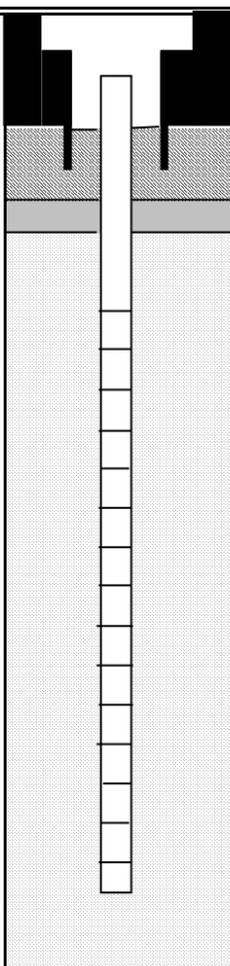
Datum: NAVD 88

Date Started: 9/11/2013

Date Ended: 9/12/2013

MONITORING WELL MW-C

Refer to Test Boring Log MW-C for Soil Description



← Flush Mounted Roadbox  
 0.46 Depth to Top of Riser Pipe (ft)  
 2.0 Depth to Bottom of Bentonite Surface Patch (ft)  
 Backfill Type Bentonite/Soil  
 16.0 Depth to Top of Bentonite Seal (ft)  
 17.0 Depth to Bottom of Bentonite Seal (ft)  
 18.0 Depth to Top of Well Screen (ft)  
 4.0 Diameter of Borehole (in)  
 Backfill Type Sand  
 1.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 28.0 Depth to Bottom of Well Screen (ft)  
 28.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW- C

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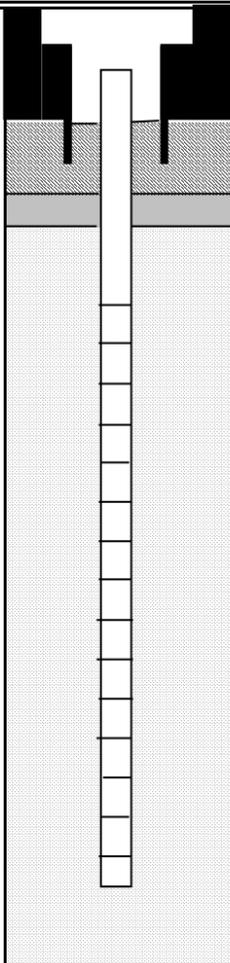
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus

MONITORING WELL MW-D

Monitoring Point Elevation: 1431.53 Datum: NAVD 88  
 Date Started: 9/12/2013 Date Ended: 9/12/2013

Refer to Test Boring Log MW-D for Soil Description



← Flush Mounted Roadbox  
 0.08 Depth to Top of Riser Pipe (ft)  
 2.0 Depth to Bottom of Bentonite Surface Patch (ft)  
 Backfill Type Soil  
 18.0 Depth to Top of Bentonite Seal (ft)  
 19.0 Depth to Bottom of Bentonite Seal (ft)  
 20.0 Depth to Top of Well Screen (ft)  
 4.0 Diameter of Borehole (in)  
 Backfill Type Sand  
 1.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 30.0 Depth to Bottom of Well Screen (ft)  
 30.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW- D

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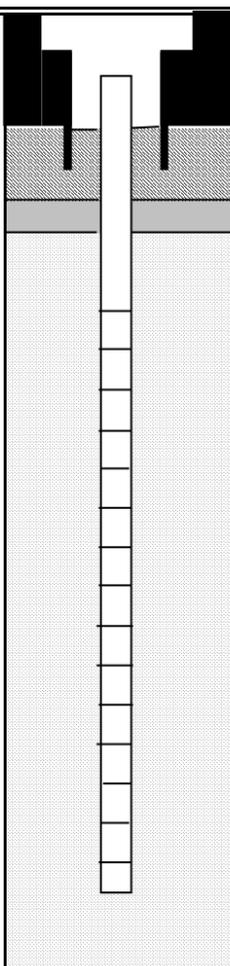
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Applus

MONITORING WELL MW-E

Monitoring Point Elevation 1434.03 Datum: NAVD 88  
 Date Started: 9/13/2013 Date Ended: 9/13/2013

Refer to Test Boring Log MW-E for Soil Description



← Flush Mounted Roadbox  
 0.15 Depth to Top of Riser Pipe (ft)  
 2.0 Depth to Bottom of Bentonite Surface Patch (ft)  
 Backfill Type Concrete/Soil  
 21.0 Depth to Top of Bentonite Seal (ft)  
 22.0 Depth to Bottom of Bentonite Seal (ft)  
 23.0 Depth to Top of Well Screen (ft)  
 4.0 Diameter of Borehole (in)  
 Backfill Type Sand  
 1.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 33.0 Depth to Bottom of Well Screen (ft)  
 33.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW- E

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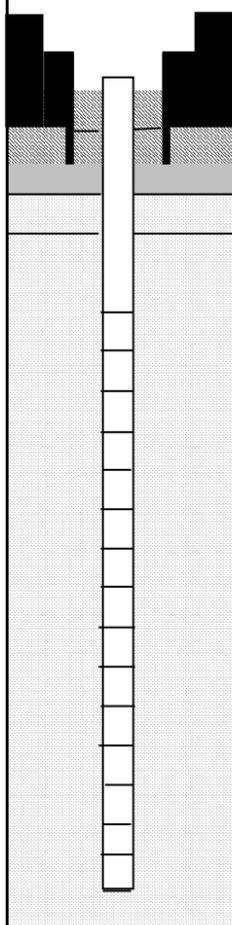
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-F

Monitoring Point Elevation: 1429.48 Datum: NAVD 88  
 Date Started: 6/17/2014 Date Ended: 6/17/2014

Refer to Test Boring Log MW-F for Soil Description



← Flush Mounted Roadbox  
 0.37 Depth to Top of Riser Pipe (ft)  
 1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
 15.0 Depth to Top of Bentonite Seal (ft)  
 16.0 Depth to Bottom of Bentonite Seal (ft)  
 17.5 Depth to Top of Well Screen (ft)  
 4.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
 2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 27.5 Depth to Bottom of Well Screen (ft)  
 28.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-F

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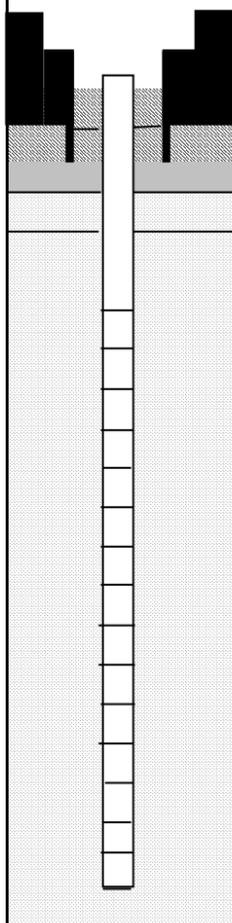
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-G

Monitoring Point Elevation 1433.65 Datum: NAVD 88  
 Date Started: 6/26/2014 Date Ended: 6/26/2014

Refer to Test Boring Log MW-G for Soil Description



← Flush Mounted Roadbox  
0.30 Depth to Top of Riser Pipe (ft)  
1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
16.0 Depth to Top of Bentonite Seal (ft)  
18.0 Depth to Bottom of Bentonite Seal (ft)  
20.0 Depth to Top of Well Screen (ft)  
6.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
33.0 Depth to Bottom of Well Screen (ft)  
33.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-G

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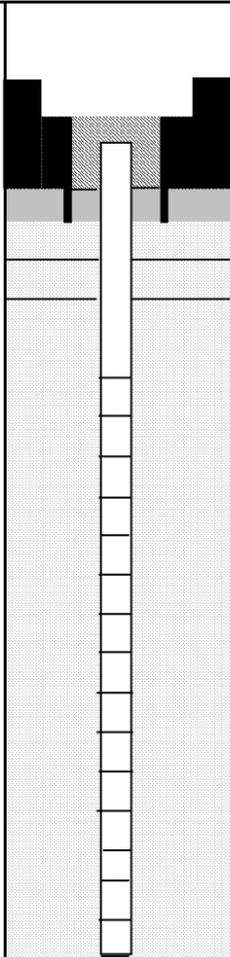
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennes  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-H

Monitoring Point Elevation 1433.61 Datum: NAVD 88  
 Date Started: 6/23/2014 Date Ended: 6/23/2014

Refer to Test Boring Log MW-H for Soil Description



← Flush Mounted Roadbox  
0.34 Depth to Top of Riser Pipe (ft)  
1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
19.0 Depth to Top of Bentonite Seal (ft)  
20.0 Depth to Bottom of Bentonite Seal (ft)  
22.0 Depth to Top of Well Screen (ft)  
4.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
30.0 Depth to Bottom of Well Screen (ft)  
30.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-H

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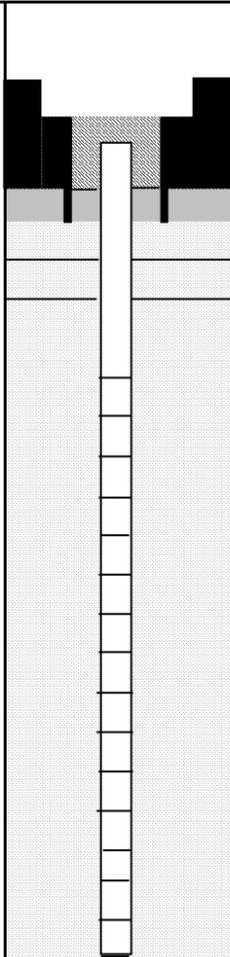
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-I

Monitoring Point Elevation 1433.51 Datum: NAVD 88  
 Date Started: 6/24/2014 Date Ended: 6/24/2014

Refer to Test Boring Log MW-I for Soil Description



← Flush Mounted Roadbox  
0.38 Depth to Top of Riser Pipe (ft)  
1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
20.5 Depth to Top of Bentonite Seal (ft)  
21.5 Depth to Bottom of Bentonite Seal (ft)  
23.5 Depth to Top of Well Screen (ft)  
4.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
33.5 Depth to Bottom of Well Screen (ft)  
33.5 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-I

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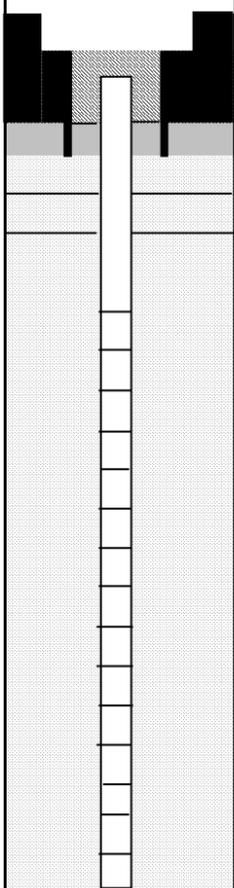
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-J

Monitoring Point Elevation: 1433.93 Datum: NAVD 88  
 Date Started: 6/19/2014 Date Ended: 6/19/2014

Refer to Test Boring Log MW-J for Soil Description



← Flush Mounted Roadbox  
 0.32 Depth to Top of Riser Pipe (ft)  
 1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
 20.5 Depth to Top of Bentonite Seal (ft)  
 21.5 Depth to Bottom of Bentonite Seal (ft)  
 22.5 Depth to Top of Well Screen (ft)  
 4.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
 2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 33.5 Depth to Bottom of Well Screen (ft)  
 36.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-J

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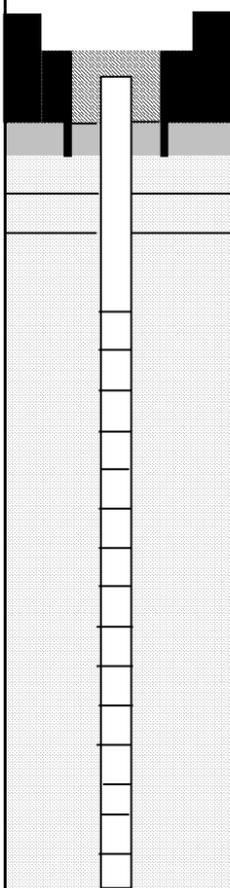
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennes  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-K

Monitoring Point Elevation: 1429.64 Datum: NAVD 88  
 Date Started: 6/16/2014 Date Ended: 6/16/2014

Refer to Test Boring Log MW-K for Soil Description



← Flush Mounted Roadbox  
 0.34 Depth to Top of Riser Pipe (ft)  
 1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
 10.5 Depth to Top of Bentonite Seal (ft)  
 13.0 Depth to Bottom of Bentonite Seal (ft)  
 15.0 Depth to Top of Well Screen (ft)  
 6.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
 2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 30.0 Depth to Bottom of Well Screen (ft)  
 30.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

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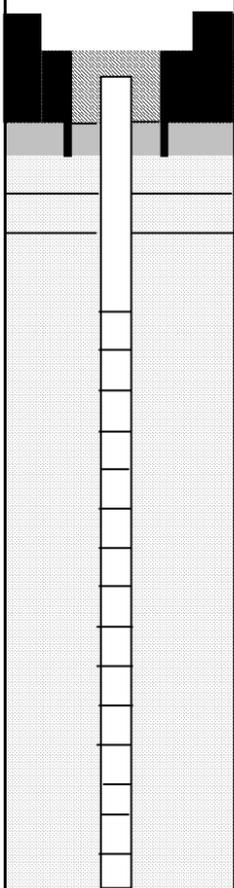
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-L

Monitoring Point Elevation: 1433.81 Datum: NAVD 88  
 Date Started: 6/18/2014 Date Ended: 6/18/2014

Refer to Test Boring Log MW-L for Soil Description



← Flush Mounted Roadbox  
 0.40 Depth to Top of Riser Pipe (ft)  
 1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
 18.8 Depth to Top of Bentonite Seal (ft)  
 19.8 Depth to Bottom of Bentonite Seal (ft)  
 22.0 Depth to Top of Well Screen (ft)  
 6.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
 2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 34.0 Depth to Bottom of Well Screen (ft)  
 34.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

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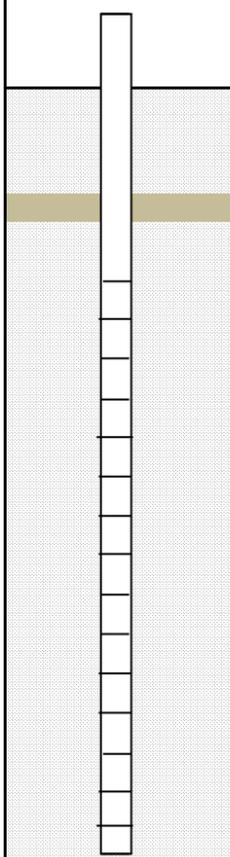
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennes  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-M

Monitoring Point Elevation: 1432.57 Datum: NAVD 88  
 Date Started: 6/17/2014 Date Ended: 6/17/2014

Refer to Test Boring Log MW-M for Soil Description



2.12 Height of Stickup (ft)  
 ← Ground Surface  
 1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
 14.0 Depth to Top of Bentonite Seal (ft)  
 16.0 Depth to Bottom of Bentonite Seal (ft)  
 18.0 Depth to Top of Well Screen (ft)  
 6.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
 2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 28.0 Depth to Bottom of Well Screen (ft)  
 28.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-

S:\Fieldforms\Monitoring Well Installation Log (revised November 2013)

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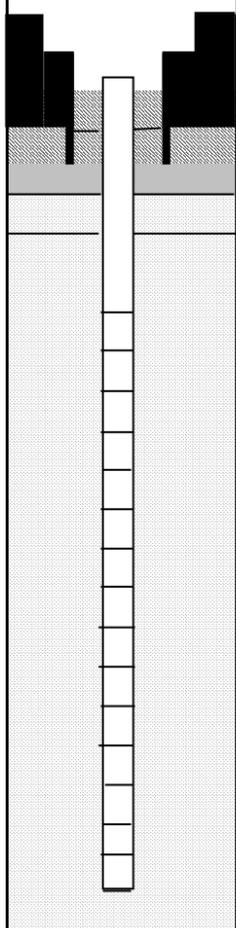
MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 4884S-13  
 Project Address: 211 Franklin Street  
 Olean, New York  
 DAY Representative: Z. Tennies  
 Drilling Contractor: Nothnagle Drilling

MONITORING WELL MW-N

Monitoring Point Elevation: 1433.92 Datum: NAVD 88  
 Date Started: 6/20/2014 Date Ended: 6/20/2014

Refer to Test Boring Log MW-N for Soil Description



← Flush Mounted Roadbox  
 0.33 Depth to Top of Riser Pipe (ft)  
 1.0 Depth to Bottom of Cement Surface Patch (ft)  
 Backfill Type Grout / Bentonite  
 20.5 Depth to Top of Bentonite Seal (ft)  
 21.5 Depth to Bottom of Bentonite Seal (ft)  
 23.5 Depth to Top of Well Screen (ft)  
 2.0 Diameter of Borehole (in)  
 Backfill Type Sand, Silica Quartz  
 2.0 Inside Diameter of Well (in)  
 Type of Pipe PVC  
 Screen slot size 10 Slot  
 33.5 Depth to Bottom of Well Screen (ft)  
 34.0 Depth to Bottom of Borehole (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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MONITORING WELL MW-N

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**SURFACE SOIL SAMPLE COLLECTION LOGS**

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211 FRANKLIN STREET  
OLEAN, NEW YORK  
NYSDEC BCP SITE NO C905038

Sample Collection Log - Surface Soil Samples  
June 27, 2014

<b>Sample Designation</b>	<b>Sample Time</b>	<b>PID Headspace (ppm)</b>	<b>Sample Description</b>
SS-1	11:30	0.0	Light brown Clayey fine Sand, little fine to coarse Gravel, Roots, damp (FILL)
SS-2	11:45	0.0	Brown Silty Gravel, some fine to medium Sand, Roots, damp (FILL)
SS-3	11:55	0.0	Brown Clayey Gravel, some medium Sand, Roots, damp (FILL)
SS-4	12:10	0.0	Black Silty Sand and fine to coarse Gravel, Glass fragments, damp (FILL)
SS-5	12:25	0.0	Brown Silty Gravel, some Sand, little Metal and Glass fragments, damp (FILL)
SS-6	12:45	0.0	Brown Silty Sand and medium to coarse Gravel, Roots, damp (FILL)
SS-7	13:15	0.0	Brown Silty fine Sand, little Gravel, Roots, damp (FILL)
SS-8	12:55	0.0	Black Silty Sand and medium to coarse Gravel, little Glass, Roots, damp (FILL)

Notes:

ppm = parts per million

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**APPENDIX D:**  
**SOIL VAPOR**  
**AND**  
**SANITARY SEWER VAPOR**  
**SAMPLING LOGS**

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**SOIL VAPOR SAMPLING LOGS**



























































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**SANITARY SEWER VAPOR SAMPLING LOGS**











