



An Exelon Company

Appendix F

Geologic Logs



Phase I Geotechnical Boring Logs

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448080.88 Easting: 1324565.68	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 30.18	Groundwater Level (ft bgs): 23.87
Start Date: 3/19/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 6.31
Finish Date: 3/20/2013		Total Depth (ft): 99

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
0							
				CR		0.5 CRUSHER RUN	
			0.4	CL		Gray to brown fine sandy CLAY, lean, dry, firm	
2			0.4				
			0.2				
4			0.1				
			0.1	CL		Gray to brown fine sandy CLAY, lean, moist, firm	
				CL		Yellow-brown silty CLAY, lean, dry, stiff	
6	24	3-6-7-10 (13)	0.2				SS 5-7
				CH		Yellow-brown silty CLAY, fat, dry, very stiff	
8	24	8-9-11-10 (20)	0.3				
				CL		Brown silty CLAY, lean, dry, very stiff	
10	24	3-6-11-23 (17)	0.5				
				SP		Brown gravelly SAND, dry, coarse, dense	
12	22	27-21-17-13 (38)	0.3				
14	22	11-14-10-10 (24)	0.3				
				SW		Yellow SAND, fine to medium, moist, loose	
16	22						ST 15-17
				SP		Yellow SAND, medium, moist, loose, some gravel	
18	22	3-5-5-7 (10)	0.0				
20	18	3-4-7-8 (11)	0.0	SP		Brown coarse SAND, wet, medium dense, some gravel	
22							
24							

Remarks: Air Knifed to 5 ft bgs

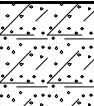
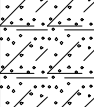
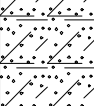
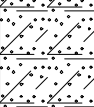
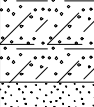
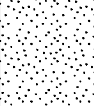
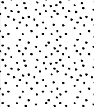
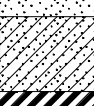

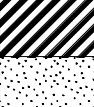
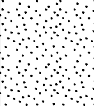


AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

SS - Split Spoon

ST - Shelby Tube

CB - Core Barrel

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448080.88 Easting: 1324565.68	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 30.18	Groundwater Level (ft bgs): 23.87
Start Date: 3/19/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 6.31
Finish Date: 3/20/2013		Total Depth (ft): 99

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
26	22	6-10-19-17 (29)	0.3	SW		Brown SAND with silt, some gravel, fine to medium, wet, medium dense	SS 25-27
28							
30							
32	18	10-5-6-8 (11)	0.3	SW		Brown SAND with silt, fine to medium, wet, medium dense	
34							
36	24	5-9-8-7 (17)	0.0	SP		Light brown coarse SAND, wet, medium dense	
38							
40							
42	24	1-6-5-5 (11)	0.3	SC		Gray clayey SAND, fine, wet, medium dense	
44				CH		Gray sandy CLAY, fine, wet, fat, stiff	
46	20			SP		Gray SAND with clay, fine, wet, medium dense	
48							ST 45-47
50							

Remarks: Air Knifed to 5 ft bgs

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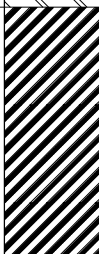
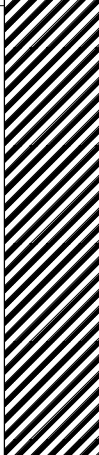
Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
50							
52	18	5-5-4-4 (9)	2.3	SP		Gray SAND with clay, medium, wet, micaceous, loose	
54							
56		3-4-4-10 (8)	0.0				
58							
60					60		
62	12	7-14-12-19 (26)	1.9	SP		Brown gravelly SAND, coarse wet, medium dense	
64							
66	6	14-23-50/2"	1.1	SC			
68						Gray clayey SAND, medium, wet, very dense	SS 65-67
70							
72	24	21-17-34- 50/4"	0.4	SC			
74							
					75		

Remarks: Air Knifed to 5 ft bgs

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Finish Date: 3/20/2013		Total Depth (ft): 99

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
76	24	12-15-21-27 (36)	1.1	CL-CH		Gray sandy CLAY, medium, lean to fat, wet, hard	SS 75-77
78							
80							
82	0	24-30-50/4"					
84							
85							
86	24	20-19-31-34 (50)	0.6	CH		Gray silty CLAY, some fine sand, moist, fat, hard	
88							
90							
92	24	9-13-20-26 (33)	0.6	CH		Gray to red brown CLAY, fat, dry, hard (Arundel Clay)	
94							
96	24	7-10-13-19 (23)	0.7				
98	24	26-27-25-23 (52)	0.3				SS 97-99
99						End of Boring at 99 ft bgs	

Remarks: Air Knifed to 5 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448732.22 Easting: 1323673.92	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 14.01	Groundwater Level (ft bgs): 7.94
Start Date: 3/27/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 6.07
Finish Date: 3/27/2013		Total Depth (ft): 93

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
0							
2			0.0	SM		Yellow-brown SAND, some gravel, moist, medium to fine, transitioning to fine with depth	
4		0.0	SM				
6	10	1-2-1-3 (3)	0.0	SM		Yellow-brown SAND, some gravel, moist, fine, very loose	
8	16	5-9-9-10 (18)	0.2	SM		Yellow-brown SAND with gravel, moist, fine, very loose, micaceous	
10	16	3-3-5-6 (8)	0.4	SP		Brown SAND, coarse, moist, loose, trace gravel	
12	16	3-2-3-3 (5)	0.2	SP		Brown SAND with gravel, coarse, wet, loose	SS 11-13
14							
16	18	2-2-4-5 (6)	0.9				
18							
20				SP		Brown gravelly SAND, coarse, wet, loose	ST 20-22
22							
24							

Remarks: Air Knifed to 5 ft bgs

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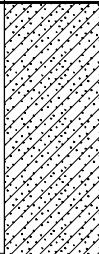
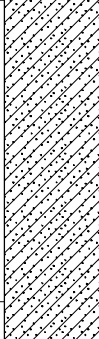
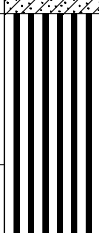
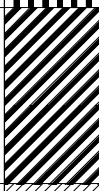
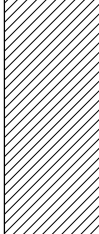
Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
26				SP		Brown gravely SAND, coarse, wet, loose <i>(continued)</i>	
	24	2-4-5-8 (9)	1.1	GP		26.5 GRAVEL, loose, wet, coarse	
				SPG		Brown gravely SAND, coarse, wet, medium dense	
28							
30				SPG		Brown gravely SAND, coarse, wet, medium dense, very loose	
	24	0-0-0-5 (0)	0.8	CH		Yellow brown silty CLAY, some sand, moist, fat, fine, soft	
32							
34							
36	24	0-0-0-3 (0)	0.8				SS 35-37
38							
40							
	24	0-1-1-2 (2)	0.6	SC		41 Gray-brown clayey SAND, moist, fine, loose	SS 40-42
42							
44							
46							
48							
50							

Remarks: Air Knifed to 5 ft bgs

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Project #: 60287343	Surface Elevation (ft): 14.01	Groundwater Level (ft bgs): 7.94
Start Date: 3/27/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 6.07
Finish Date: 3/27/2013		Total Depth (ft): 93

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
50							
52	22			SC		Gray-brown clayey SAND, moist, fine, loose <i>(continued)</i>	ST 50-52
54							
55							
56	24	10-12-16-18 (28)	0.3	SC		Gray-brown clayey SAND, moist with clay lenses, medium dense	SS 55-57
58							
60							
62	24	3-5-6-9 (11)	0.8	SC		61 Brown to gray clayey SAND, fine, moist, stiff, decomposing organic material at 61'	
64				MH		62 Brown to gray sandy SILT, fine, moist, stiff	
66	24	10-13-21-21 (34)	1.0	MH		65 Brown to gray sandy SILT, fine, moist, hard	
68				CH		66.5 Red-brown silty CLAY, dry, fat, hard	
70							
72	24	6-10-14-16 (24)	0.7	CL		70 Brown sandy CLAY, fine, moist, lean, very stiff	
74							

Remarks: Air Knifed to 5 ft bgs

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Start Date: 3/27/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 6.07
Finish Date: 3/27/2013		Total Depth (ft): 93





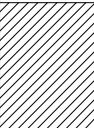

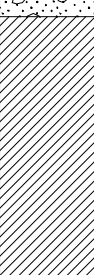
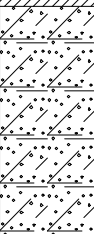
Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
76	24	8-12-16-21 (28)	0.1	CL		Brown sandy CLAY, fine, moist, lean, very stiff (<i>continued</i>)	
78							
80							
82	24	6-14-19-26 (33)	0.7	CL		Brown to red sandy CLAY, fine, moist, lean, hard	SS 80-82
84							
86	24	7-19-22-29 (41)	0.4	CH			Red-brown CLAY, dry, fat, hard (Arundel Clay)
88							
90							
92							
93 End of Boring at 93 ft bgs							

Remarks: Air Knifed to 5 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

- SS - Split Spoon
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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 449239.80 Easting: 1324624.88	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 17.09	Groundwater Level (ft bgs): 19.14
Start Date: 3/14/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): -2.05
Finish Date: 3/15/2013		Total Depth (ft): 77

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
0							
			3.6	CR SM		0.25 CRUSHER RUN	
2			9.7			Gray to black silty SAND with gravel, medium, dry	
			13.0				
4			5.6	SM		Gray to black silty SAND with gravel and coal fragments, medium, dry	
			7.8				
				CH		4.5 Brown CLAY with sand, fat, fine, brown, firm	
				CH		5.5 Brown CLAY with sand, fat, fine, brown, firm	
6	12	1-1-2-3 (3)	1.0	SM		Gray to black silty SAND with gravel, medium, dry	
8	18	5-5-3-3 (8)	2.3	CL		8 Brown CLAY with sand, lean, fine, soft, moist	
10	14	3-3-2-2 (5)	0.8				SS 9-11
				SPG		10.5 Gray to dark brown gravelly SAND, coarse, wet, loose	
12							
14							
16	24			CL		15 Gray Brown CLAY, lean, wet	ST 15-17
18							
20							
22	12	3-2-2-2 (4)	0.0	SW		20.25 Gray brown silty SAND with gravel, fine to medium, wet, very loose	
24							

Remarks: Air Knifed to 5 ft bgs

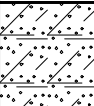
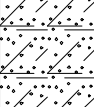
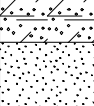
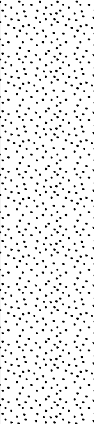
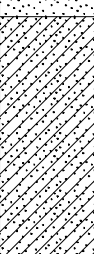
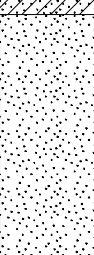
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Columbia, MD 21046

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
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26	24	1-3-7-6 (10)	0.2	SW		Gray brown SAND with gravel, fine to medium, wet, loose	SS 25-27
28							
30							
32	24	1-1-1-2 (2)	0.1	SP		Brown SAND, some gravel, coarse, wet, very loose	
34							
36							
38							
40							
42	12	1-1-6-10 (7)	0.0	SC		Olive-brown clayey SAND, medium to coarse, wet, loose	
44							SS 40-42
46	24	4-7-19-30 (26)	0.3	SP		45.5 Olive-brown SAND, coarse, wet, loose	
48						46 Olive-brown SAND with gravel, coarse, wet, loose	
50						Gray SAND with silt, fine, wet, dense	

Remarks: Air Knifed to 5 ft bgs

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
Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
50							
52	24	13-36-43-49 (79)	0.3	SP		Gray SAND with silt, fine, wet, very dense	
54							
56	18	13-16-50/4"	0.2				
56.5				WOOD		Decomposed WOOD	
57				CL		Gray sandy CLAY, lean, medium, wet, hard	
58							
60				CL		Gray sandy CLAY, lean, fine, wet, hard	
62	24	17-19-24-30 (43)	0.9	CH		Gray sandy CLAY, fat, moist, hard, fine with clayey sand lenses	SS 60-62
64							
65				CL		Gray to red-brown silty CLAY with sand, fine, moist to dry, hard (Arundel Clay)	
66	24	5-13-17-25 (30)	0.6				
68							
70							
72	20	7-15-20-20 (35)	0.2				SS 70-72
74							

Remarks: Air Knifed to 5 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

- SS - Split Spoon
- ST - Shelby Tube
- CB - Core Barrel

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 449239.80 Easting: 1324624.88	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 17.09	Groundwater Level (ft bgs): 19.14
Start Date: 3/14/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): -2.05
Finish Date: 3/15/2013		Total Depth (ft): 77

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
76				CL		Gray to red-brown silty CLAY with sand, fine, moist to dry, hard (Arundel Clay) <i>(continued)</i>	
					77		











End of Boring at 77 ft bgs

Remarks: Air Knifed to 5 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

- SS - Split Spoon
- ST - Shelby Tube
- CB - Core Barrel

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448370.51 Easting: 1326248.97	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 36.51	Groundwater Level (ft bgs): 20.05
Start Date: 3/26/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 16.46
Finish Date: 3/26/2013		Total Depth (ft): 75

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
0							
2			0.0	ASPHALT		0.5 ASPHALT	
				CR		1 CRUSHER RUN	
				SP		Brown to dark brown SAND, some gravel (fill), moist, coarse	
				SP		Brown to dark brown SAND, fine, moist	
				SP		Yellow brown SAND, fine, increasing moisture	
				SP		Light brown SAND, coarse, moist to saturated	SS 4.5-5.5
4			0.0				
6			0.0	SW		Light brown SAND, medium to coarse, wet, medium dense	
				SW		Dark brown to brown SAND, some silt, fine to coarse, wet, loose	
8	12	7-9	0.9				
10							
12	20	1-2-3-3 (5)	0.9	SW			
14							
16	24						ST 15-17
18							
20							
22	20	0-0-0-0 (0)	0.3	CL		Gray CLAY, lean, trace sand, fine, moist, very soft	ST 20-22
24							

Remarks: Air Knifed to 5 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

- SS - Split Spoon
- ST - Shelby Tube
- CB - Core Barrel

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448370.51 Easting: 1326248.97	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 36.51	Groundwater Level (ft bgs): 20.05
Start Date: 3/26/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 16.46
Finish Date: 3/26/2013		Total Depth (ft): 75


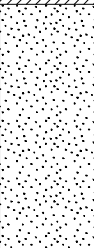


Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
26	21	0-0-0-1 (0)	0.9	CL		Gray CLAY, lean, trace sand, fine, moist, very soft (continued)	
28							
30							
32	24	3-5-7-11 (12)	1.1	SW		31 Light brown SAND with gravel, fine to coarse, wet, medium dense	SS 30-32
34							
36	18	1-2-2-2 (4)	0.5	CL		36 Gray CLAY, lean, trace sand, fine, moist, soft, decomposing organic material at 37'	
38							
40							
42	12	0-0-0-1 (0)	0.5	CL		40 Gray CLAY, lean, trace sand, fine, moist, very soft	
44							
46	24	0-0-1-2 (1)	0.6	SC		46 Yellow brown clayey SAND, medium, wet, very loose	ST 45-47
48							
50						50	

Remarks: Air Knifed to 5 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

- SS - Split Spoon
- ST - Shelby Tube
- CB - Core Barrel

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448370.51 Easting: 1326248.97	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 36.51	Groundwater Level (ft bgs): 20.05
Start Date: 3/26/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 16.46
Finish Date: 3/26/2013		Total Depth (ft): 75

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
50							
52	22	0-0-0-4 (0)	0.1	CL		Gray CLAY, lean, trace sand, fine, moist, very soft	
54				SP		Light brown to yellow SAND with gravel, coarse, wet, loose	
56	24	2-5-7-9 (12)	0.2	CH		Gray brown CLAY, trace SAND, moist, fat, very stiff (Arundel Clay)	SS 55-57
62		4-6-10-11 (16)	0.0				
66	20	2-7-10-11 (17)	0.3	CH		Red-brown CLAY, dry, fat, very stiff (Arundel Clay)	
72	54						CB 70-75
74							

Remarks: Air Knifed to 5 ft bgs

End of Boring at 75 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

- SS - Split Spoon
- ST - Shelby Tube
- CB - Core Barrel

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448337.53 Easting: 1325826.24	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 33.50	Groundwater Level (ft bgs): 13.94
Start Date: 3/20/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 19.56
Finish Date: 3/21/2013		Total Depth (ft): 60




















Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
0							
				ASPHALT		0.5 ASPHALT	
				SP		Brown to dark brown SAND, some gravel (fill), medium	
2		1.1		SP		2 Yellow-brown SAND, some silt, fine, moist	
		1.6		CL		3 Yellow-brown CLAY, lean, medium, micaceous, moist	
4		2.1		CL		4 Yellow-brown CLAY, lean, medium, micaceous, moist	
		1.4		SW		5 Yellow-brown SAND, trace silt, fine to medium, micaceous, increasing moisture	
		1.4		SW		6 Yellow-brown SAND, trace silt, fine to medium, micaceous, increasing moisture, medium dense	
6	12	3-6-5-5 (11)	1.4	SW			
8	18	7-8-6-5 (14)	0.7	SW			
10	18	2-4-5-6 (9)	0.6	ML		9 Light brown sandy SILT, moist, fine, stiff	SS 9-11
12	24	5-6-6-6 (12)	0.1	CH		11.5 Gray to yellow-brown silty CLAY, some sand, fine, stiff, lean, moist	
14	22	6-7-8-8 (15)	0.3	CH		15 Gray to yellow-brown silty CLAY, fine, stiff, lean, wet	SS 13-15
16	24	3-3-6-7 (9)	0.4	CH			
18	24	9-11-10-11 (21)	0.2	CH			
20	24	7-9-10-10 (19)	0.1	CH		20 Gray to yellow-brown silty CLAY with sand, fine, stiff, lean, wet	
22							
24							

Remarks: Air Knifed to 5 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

- SS - Split Spoon
- ST - Shelby Tube
- CB - Core Barrel

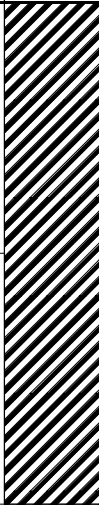
Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448337.53 Easting: 1325826.24	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 33.50	Groundwater Level (ft bgs): 13.94
Start Date: 3/20/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 19.56
Finish Date: 3/21/2013		Total Depth (ft): 60

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
26				CH		Gray to yellow-brown silty CLAY with sand, fine, stiff, lean, wet <i>(continued)</i>	
	24	11-11-11-11 (22)	0.3	SC		26.5 Gray clayey SAND, medium, wet, medium dense	
				SP		Brown SAND, coarse, wet, medium dense	
28							
30							
	12	1-4-8-10 (12)	0.1	SPG		30 Yellow brown gravelly SAND, coarse, wet, medium dense	
32							
34							
	12	2-7-7-8 (14)	0.2	SP		35 Gray SAND, some clay, medium, wet, medium dense	SS 35-37
36							
38							
40							
	16	2-3-6-12 (9)	0.1	SP		40 Brown SAND, some gravel, coarse, wet, loose	SS 40-42
42							
44							
	22	2-4-6-9 (10)	0.3	CH		45 Red-brown CLAY, fat, moist, stiff (Arundel Clay)	
46							
48							
50							

Remarks:

AECOM
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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448337.53 Easting: 1325826.24	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 33.50	Groundwater Level (ft bgs): 13.94
Start Date: 3/20/2013	Drilling Method: HSA	Corrected Groundwater Elevation (ft): 19.56
Finish Date: 3/21/2013		Total Depth (ft): 60

Depth (ft bgs)	Recovery Length (inches)	Blow Counts (N Value)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Method & Interval
50							
52	24	4-9-11-15 (20)	0.2	CH		Red-brown silty CLAY, fat, moist, very stiff (Arundel Clay)	
54							
56				CH		Red-brown silty CLAY, fat, dry, very stiff (Arundel Clay)	
58	48						CB 55-60
60							

End of Boring at 60 ft bgs

Remarks: Air Knifed to 5 ft bgs

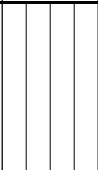
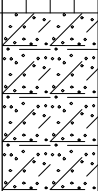
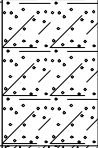

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Phase I Direct-Push Boring Logs












Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448434.09 Easting: 1323670.23	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 13.73	Groundwater Encountered (ft bgs): 12
Start Date: 5/20/2013	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 5/20/2013		Total Depth (ft): 15

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2		0.0	ML		Brown SILT, sandy, moist, gravely	
4						2.5-3.5
6		0.0	SW		Brown SAND, fine to medium grain, angular, well graded, moist	
8		0.0				
10		0.0	SW		Brown SAND, fine to medium grain, angular, well graded, saturated	9.5-10.5
12		0.0				
14		0.0	SC		Brown clayey SAND, fine grain, no plasticity, saturated	14-15

Remarks: Groundwater Sample Collected: 12-15 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448968.71 Easting: 1323703.26	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 15.61	Groundwater Encountered (ft bgs): 14
Start Date: 5/20/2013	Drilling Method: DPT	Water Level (ft bgs): 5.63
Finish Date: 5/20/2013		Total Depth (ft): 17

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
			FILL		0.66 Black silty GRAVEL/FILL MATERIAL, trace clay, moist	
		0.0	SM		1.5 Brown silty SAND, medium to fine grain, well graded, trace gravel, moist	
2		0.0	SC		3 Reddish-brown clayey SAND, medium grain, little silt, moist, no plasticity, mica flakes present	
4		0.0	SW		5 Brown SAND, fine to medium grain, well graded, loose, little silt, moist	
6		0.0	SW		10 Reddish-brown SAND, fine to course grain, well graded, trace gravel, moist	4.5-5.5
8						
10		0.0	SW		17 Brown gravely SAND, fine to medium grain, poorly graded, medium size gravel, moist to wet at 14'	9.5-10.5
12						
14						
16						14.5-15.5
						

Remarks: Groundwater Sample Collected: 12-17 ft bgs

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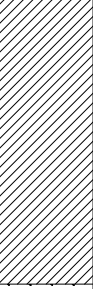
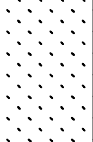


Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448120.86 Easting: 1324026.35	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 20.37	Groundwater Encountered (ft bgs): 12
Start Date: 5/21/2013	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 5/21/2013		Total Depth (ft): 52

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	FILL		0.66 CRUSHER RUN, fill material, moist	
		0.0	ML		Brown sandy SILT, medium to fine grain sand, well graded, moist	
2		0.1	SC		2 Reddish-brown clayey SAND, medium grain, sub-rounded, no plasticity, very moist, loose	
4		0.0				
		0.0				
6		0.0	SM		5 Reddish-brown silty SAND, fine to medium grain, well graded, trace gravel, moist	4.5-5.5
8		0.1				
		0.0	SP		8 Reddish-brown SAND, fine to medium grain, graded towards fine grains, medium to large gravel, moist	
10		0.2				9.5-10.5
		0.0				
12		0.0				
		0.0	SW		12 Brown SAND, medium to coarse grain, angular, well graded, medium gravel, saturated	
14		0.0				
		0.0				
16		0.0				14.5-15.5
		0.0				
18		0.0				
		0.0				
20		0.0	CL		19 Gray CLAY, low plasticity, moist	
22		0.0				
		0.0	SP		22 Reddish brown SAND, some silt, trace mica, saturated	
24		0.0				
		0.0	SW		24 Reddish brown SAND, fine to medium grain, well graded, some gravel, very moist	
26	26	0.0	SP		25 Brown SAND, medium to coarse grain, angular, graded towards coarse, medium to large gravel, wet	
28		0.0				
		0.0				
30		0.0				
		0.0	CL		30 Gray CLAY, no plasticity, trace sand, moist	
32		0.0				
		0.0				
34		0.0	SM		33 Gray silty SAND, fine grain, little clay, no plasticity, wet	
		0.0				

Remarks: Groundwater Sample Collected: 10-15 ft bgs

AECOM
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Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448120.86 Easting: 1324026.35	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 20.37	Groundwater Encountered (ft bgs): 12
Start Date: 5/21/2013	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 5/21/2013		Total Depth (ft): 52

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	SM		Gray silty SAND, fine grain, little clay, no plasticity, wet (<i>continued</i>)	
37		0.0				
38		0.0	CL		Gray sandy CLAY, fine grain sand, low plasticity, moist	
40		0.0				
42		0.0				
44		0.0				
46		0.0	SM		Gray silty SAND, fine to medium grain, well-graded, angular to sub-rounded, trace clay, no plasticity, mica flakes present, wet	
48		0.0				
50		0.0	SW-SM		Gray SAND, medium grain, washed, little silt, moist	
51.5		0.0				
52		0.0	GP		Gray sandy GRAVEL, some silt, medium to large gravel, wet	

Remarks: Groundwater Sample Collected: 10-15 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448808.97 Easting: 1324091.66	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.74	Groundwater Encountered (ft bgs): 16
Start Date: 5/20/2013	Drilling Method: DPT	Water Level (ft bgs): 14.90
Finish Date: 5/20/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5		0.0	FILL		0.5 CRUSHER RUN, fill material, moist	
1			SM		1 Black silty SAND, fine to medium grain, well graded, little gravel, moist	
1.3		1.4	ME		1.3 / 1.4 Reddish-brown gravelly SILT, some sand, moist	
2			ML		2 Reddish-brown clayey SILT, little sand, little gravel, moist	
3					3 Black gravelly SILT, some clay, moist	
3.3		1.0	GW		3.3 Black sandy GRAVEL, small rounded gravel, fine to medium grain sand, well graded, moist	2.5-3.5
5		0.5	COAL		5 Crushed COAL ASH, moist	
6		0.0	SW		6 Red SAND, fine to medium grain, well graded, sub-rounded, moist	
8		0.0			8 Brown SAND, fine to coarse grain, little quartz gravel, moist	
10		0.0	SP		10 Brown SAND, fine to coarse grain, little quartz gravel, moist	
11		0.0	ML		11 Black and brown clayey SILT, possible coal ash mixed in, moist	9.5-10.5
12		0.0	SW		12 Reddish-brown SAND, fine to medium grain, well graded, mica present, moist, very moist at 15'	
14		0.0				
16		0.0				14.5-15.5
17		0.0	GW		17 Brown sandy GRAVEL, small gravels, rounded and sub-rounded, medium to fine grain sand, well graded, washed, saturated	
20		0.0				

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 47-52 ft bgs Refusal at 52 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449163.57 Easting: 1324087.93	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 16.80	Groundwater Encountered (ft bgs): 12
Start Date: 5/21/2013	Drilling Method: DPT	Water Level (ft bgs): 13.0
Finish Date: 5/21/2013		Total Depth (ft): 19

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	GP		0.66 Black silty GRAVEL, fill material, trace cobbles, moist	
		1.1	SM		Reddish-brown silty SAND, fine to medium grain, well graded, moist	
2		0.8				
		0.5				
4		0.0				
		0.1	SW		5 Reddish-brown SAND, medium to fine grain, well graded, trace silt, moist	4.5-5.5
6		0.0				
		0.0				
8		0.0	SP		8 Reddish-brown SAND medium to coarse grain, trace gravel, trace silt, moist	
		0.1				
10		0.0				9.5-10.5
		0.0				
12		0.0				
		0.0	SP-SM		13 Reddish-brown SAND medium to coarse grain, poorly graded towards coarse, angular and rounded mix, trace gravel, very moist, saturated at 16'	14.5-15.5
14		0.0				
		0.0				
16		0.0				
		0.0				
18		0.0	SP		18 Reddish-brown SAND, fine to medium grain, graded towards fine grains, saturated	
		0.0				

Remarks: Groundwater Sample Collected: 14-19 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448063.28 Easting: 1324259.23	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 22.41	Groundwater Encountered (ft bgs): 17
Start Date: 5/22/2013	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 5/22/2013		Total Depth (ft): 19.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5			FILL		Stone FILL	
1			COAL		COAL ASH, dry	
2			ML		Reddish-brown sandy SILT, moist	
4						
5						4.5-5.5
6	0.0		SW-SM		Reddish-brown SAND, fine to medium grain, well graded, little silt, moist	
8	0.0					
8.5	0.0		ML		Brown sandy SILT, little clay, no plasticity, fine grain sand, moist	
10	0.0		ML		Brown sandy SILT, little clay, no plasticity, fine grain sand, mica flakes, moist	9.5-10.5
12	0.0					
14	0.0					
16	0.0					14.5-15.5
17			SP-SC		Brown clayey SAND, medium to fine grain, poorly graded towards fine, wet	
18			CL		Gray CLAY, little silt, no plasticity, trace sand, moist	
19.5						

Remarks: Groundwater Sample Collected: 14.5-19 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448780.43 Easting: 1324313.90	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.66	Groundwater Encountered (ft bgs): 18
Start Date: 5/22/2013	Drilling Method: DPT	Water Level (ft bgs): 22.8/38.7
Finish Date: 5/22/2013		Total Depth (ft): 48

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2	0.0	0.0	FILL		1 GRAVEL FILL, some silt, trace sand, moist	
	0.0		FILL		GRAVEL FILL MATERIAL, silty, little clay, no plasticity, moist, black filter fabric at 1'	
4	0.0					
	0.2					
6	0.0	0.0	ML		4 Reddish-brown clayey SILT, trace sand, no plasticity, moist	4.5-5.5
	0.0		SM		5 Brown silty SAND, fine to medium grain, well graded, trace clay and gravel, no plasticity, moist	
8	0.0					
	0.0					
10	0.0	0.0	SM		9 Brown silty SAND, medium grain, well graded, trace clay and gravel, no plasticity, very moist	9.5-10.5
	0.0					
12	0.0		ML		12 Gray clayey SILT, no plasticity, very moist	
	0.0					
14	0.0	0.0	CL		13.5 Gray and brown silty CLAY, no plasticity, soft, very moist	14.5-15.5
	0.0					
16	3.9	0.0	SW-SC		15.5 Gray SAND, trace clay and silt, fine to medium grain, well graded, wet.	
	3.9					
18	0.0	0.0	SM		17 Gray silty SAND, fine to medium grain, graded towards medium, little gravel, wet	
	0.0					
20	0.0					
	0.0					
22	12	0.0	SP		20 Gray-brown SAND, medium grain, trace gravel, wet	
	0.0					
24	0.0					
	0.0					
26	0.0	0.0	SP		26 Reddish-brown SAND, medium grain, trace gravel, wet	
	0.0					
28	0.0					
	0.0					
30	0.0	0.0	CL		28 Gray CLAY, low to no plasticity, moist	
	0.0					
32	0.0					
	0.0					
34	0.0	0.0				
	0.0					

Remarks: Groundwater Sample Collected: 20-25 ft bgs and 43-48 ft bgs Refusal at 48 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448780.43 Easting: 1324313.90	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.66	Groundwater Encountered (ft bgs): 18
Start Date: 5/22/2013	Drilling Method: DPT	Water Level (ft bgs): 22.8/38.7
Finish Date: 5/22/2013		Total Depth (ft): 48

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	CL		36 Gray CLAY, low to no plasticity, moist (<i>continued</i>)	
		0.0	CL		Gray sandy CLAY, fine grain sand, no plasticity, wet to very moist	
38		0.0				
		0.0				
40		0.0				
		0.0				
42		0.0				
		0.0				
44		0.0	SP-SC		44 Gray clayey SAND, fine grain sand, no plasticity, very moist	
		0.0			45.5	
46		0.0	SW	Brown-grey SAND, medium to coarse grain, well graded, tight and firm, wet		
		0.0				
48		0.0		48		

Remarks: Groundwater Sample Collected: 20-25 ft bgs and 43-48 ft bgs Refusal at 48 ft bgs

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Columbia, MD 21046






Boring Log

BORING #: SUS/DP08

Sheet 2 of 2


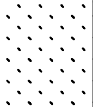
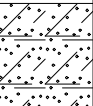
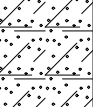

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448910.93 Easting: 1324319.35	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.88	Groundwater Encountered (ft bgs): 15
Start Date: 5/23/2013	Drilling Method: DPT	Water Level (ft bgs): 15.0
Finish Date: 5/23/2013		Total Depth (ft): 39

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	SC		Brown CLAY and SAND, wet	
38		0.5	SC		37 Brown clayey SAND, wet	
		0.4	SP		38 Brown SAND with gravel	
					39	

Remarks: Groundwater Sample Collected: 15-25 ft bgs and 34-39 ft bgs 16.53 Refusal at 39 ft bgs

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Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Michele Russell/Jeremy Joiner
Project: Benning Road Facility	Northing: 448048.31 Easting: 1324624.17	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 30.58	Groundwater Encountered (ft bgs): 20.2
Start Date: 6/11/2013	Drilling Method: DPT	Water Level (ft bgs): 20.2/22.66
Finish Date: 6/11/2013		Total Depth (ft): 51.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	SM		Gray silty SAND, fine grain, very dense, saturated	
		0.0				
38		0.0				
		0.0	SM		40 Gray silty SAND, fine grain, very dense, little lean clay, no plasticity, wet	
40		0.0				
		0.0				
42		0.0	SW		43 Red-brown SAND, fine to medium grain, well graded, wet	
		0.0				
44		0.0				
		0.0				
46		0.0				
		0.0				
48		0.0				
		0.0				
50		0.0				
		0.0			51.5	

Remarks: Groundwater Sample Collected: 25-30 ft bgs and 45-50 ft bgs Refusal at 51.5 ft bgs

AECOM
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Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner/Sharon Drummond
Project: Benning Road Facility	Northing: 448784.82 Easting: 1324662.91	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.92	Groundwater Encountered (ft bgs): 13
Start Date: 6/10/2013	Drilling Method: DPT	Water Level (ft bgs): 9.51
Finish Date: 6/10/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	CONCRETE		0.7 CONCRETE	
		0.0	FILL		Saturated base stone FILL MATERIAL	
2		0.0	SM		2 Reddish-brown silty SAND, medium to fine grain, well graded, trace gravel, saturated	
4						
					5	
6	36	0.3	SM		5.5 Black-gray silty SAND, some fill gravel, dry	4.5-5.5
		0.4	FILL		Orange-brown SAND and gravel FILL MATERIAL, medium to coarse grain, some silt, dry	
8		0.4				
		0.4	SW-SM		8 Orange/red-brown SAND, medium to coarse, well graded, some silt, 10% gravel, slightly moist	
10		0.4				9.5-10.5
		0.1				
12	48	0.1	COAL		11 Black COAL ASH with approximately 50% gravel, dry	
		0.1	SW-SM		11.5 Red-brown gravelly SAND, some silt, moist, medium to coarse grain, well graded, wet at 13'	
14		0.1				
		0.2				
16						14.5-15.5
		0.0	CL		16 Orange and light gray mottled silty CLAY, low plasticity, wet, smooth	
18						
			SP		18 Orange-brown SAND, coarse, 30% large gravel, poorly graded	
20						

Remarks: Groundwater Sample Collected: 15-20 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449239.72 Easting: 1324624.65	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 17.03	Groundwater Encountered (ft bgs): 11
Start Date: 5/28/2013	Drilling Method: DPT	Water Level (ft bgs): 8.4
Finish Date: 5/28/2013		Total Depth (ft): 44

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5		0.0	FILL		Grey crushed stone FILL MATERIAL, moist	
0.66		0.0	CL		Brown silty CLAY, mica flakes present, trace sand, moist, no plasticity, firm	
0.83		0.0	FILL		FILL MATERIAL, coal slag, sandy silt, gravelly, moist, firm	
		0.0	COAL		COAL, black, dry	
3.3		0.0	CL		Brown silty CLAY, moist	
5		0.0	ML		Brown sandy SILT, fill material, few gravel, black coal dust lenses throughout, moist	4.5-5.5
9		0.0	SM		Gray silty SAND, medium to fine grain, poorly graded towards medium, little clay, no plasticity, moist, wet at 14'	9.5-10.5
14		0.0	SP-SM		Brown SAND, fine grain, little silt, smooth, soft, saturated	14.5-15.5
17		0.0	SC		Gray clayey SAND, fine grain, no plasticity, saturated	
18		0.0	SP-SM		Brown SAND, fine grain, little silt, smooth, soft, saturated	
19		0.0	SP-SM		Gray-brown SAND, medium to coarse grain, graded to medium, little silt, saturated	
20	12	0.0	SP-SM		Gray-brown SAND, fine to coarse grain, poorly graded toads fine, trace gravel, moist	
25	20	0.0	GW		Brown sandy GRAVEL, medium to coarse grain sand, small to medium gravel, trace silt, saturated	
31		0.0	CL		Gray CLAY, lean, stiff, no plasticity, moist	
35		0.0				

Remarks: Groundwater Sample Collected: 10-15 ft bgs Refusal at 49.5 ft bgs

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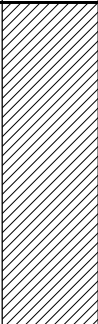


Boring Log

BORING #: SUS/DP11

Sheet 2 of 2

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449239.72 Easting: 1324624.65	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 17.03	Groundwater Encountered (ft bgs): 11
Start Date: 5/28/2013	Drilling Method: DPT	Water Level (ft bgs): 8.4
Finish Date: 5/28/2013		Total Depth (ft): 44

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	CL		Gray CLAY, lean, more stiff, no plasticity, moist	
		0.0				
38		0.0				
		0.0				
40		0.0				
42						
44						

Remarks: Groundwater Sample Collected: 10-15 ft bgs Refusal at 49.5 ft bgs

AECOM
 8320 Guilford Road Suite L
 Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448435.68 Easting: 1324827.15	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 23.98	Groundwater Encountered (ft bgs): 13
Start Date: 6/13/2013	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 6/13/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval		
0								
2	0.0	0.0	GP		Black GRAVEL, small to large grain, poorly graded towards large, moist			
	1.7							
	1.9							
4	2.1		GP		Black GRAVEL, small to large grain, poorly graded from small to large, little medium to coarse sand, well graded sand, moist			
	2.0							
6	0.0		BRICK		Red crushed brick FILL MATERIAL	4.5-5.5		
	0.3		ML		Brown clayey SILT, no plasticity, soft, wet			
8	0.0		ML		Brown sandy SILT, fine to medium grain, well graded, wet, soft			
10	0.0							9.5-10.5
12	0.4							
	0.0							
14	0.0		SM		Brown silty SAND, fine to medium grain, wet, soft			
16	0.0						14.5-15.5	
	0.0							
18	0.0							
	0.0							
20	0.0							

Remarks: Groundwater Sample Collected: 15-20 ft bgs

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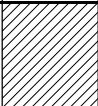

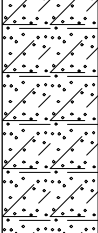



Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner/Dan Hulbert
Project: Benning Road Facility	Northing: 449245.86 Easting: 1324899.54	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 17.35	Groundwater Encountered (ft bgs): 10
Start Date: 5/29/2013	Drilling Method: DPT	Water Level (ft bgs): 13.33
Finish Date: 5/29/2013		Total Depth (ft): 50.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	FILL		0.5 Medium grade SAND and GRAVEL (fill material)	
		0.4	SP-SM		Dark brown SAND, medium grained, some silt, dry	
2						
			SP-SM		2.5 Dark brown SAND, medium grained, some silt, trace gravel, dry	
4		1.1				
		1.9	SM		5 Dark brown silty SAND, fine to medium grade, poorly graded, trace gravel, moist	4.5-5.5
6		1.2				
		0.8				
8		1.3	SP		8 Light brown SAND, fine to coarse grain, poorly graded, trace gravel, moist	
		1.1	SP		9 Light brown SAND, fine to coarse grain, poorly graded, trace gravel, saturated	9.5-10.5
10		0.7				
		0.5				
12		0.0				
		0.3				
14		0.7	GP		14 Brown sandy GRAVEL, small gravel, medium and coarse sand, trace silt, wet	14.5-15.5
16		0.0				
		0.0				
18		0.0				
		0.0				
20		0.0				
		0.0				
22		0.0				
		0.0				
24		0.0				
		0.0				
26		0.0	SP		25 Brown clayey SAND, no plasticity, moist to wet	
		0.0				
28		0.0	CL		28 Gray CLAY, trace sand, smooth, slightly firm, moist	
		0.0				
30		0.2	CL		30 Gray CLAY, trace sand, smooth, medium stiff, moist	
		0.0				
32		0.0				
		0.0				
34		0.0				
		0.0				

Remarks: Groundwater Sample Collected: 10-15 ft bgs

AECOM
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Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner/Dan Hulbert
Project: Benning Road Facility	Northing: 449245.86 Easting: 1324899.54	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 17.35	Groundwater Encountered (ft bgs): 10
Start Date: 5/29/2013	Drilling Method: DPT	Water Level (ft bgs): 13.33
Finish Date: 5/29/2013		Total Depth (ft): 50.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	CL		Gray CLAY, trace sand, smooth, stiff, moist	
		0.0				
38		0.0				
		0.0	CL		Gray sandy CLAY, no plasticity, fine and medium sand, moist	
40		0.0				
		0.0	SW		Brown SAND, fine and coarse, well graded, saturated	
42		0.0				
		0.0				
44		0.0				
		0.0			47	
46		0.0	PT		Gray decomposing wood, saturated	
		0.0	SW		47.5	
48		0.0			Brown SAND, fine to medium grain, well graded, wet	
		0.0	CL		48.5	
		0.0			Gray sandy CLAY, fine to medium grain sand, no plasticity, stiff, moist	
50		0.0				
					50.5	

Remarks: Groundwater Sample Collected: 10-15 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448089.70 Easting: 1325250.39	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 35.26	Groundwater Encountered (ft bgs): 23
Start Date: 6/6/2013	Drilling Method: DPT	Water Level (ft bgs): 23.0
Finish Date: 6/6/2013		Total Depth (ft): 25

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.33			FILL MATERIAL		Red MULCH	
1.33					Tan SAND, fine, loose, dry	
2			GW		Brown silty GRAVEL, dry	
2.16			CL		Brown silty CLAY, some sand, trace gravel, moist	
					Brown silty CLAY, some sand, saturated	2.5-3.5
5			ML		Reddish-brown clayey SILT, no plasticity, moist	
3.8						
3.9						
2.7						
2.0						
2.1						
2.3						
10			CL		Red/gray CLAY, little silt, no plasticity, moist	9.5-10.5
1.6						
1.0						
1.0						
14						
1.6						
0.8						
16						14.5-15.5
0.0						
0.0						
18			SC		Reddish-brown clayey SAND, fine to medium grain, well graded, moist, wet at 20'	
0.0						
0.0						
20						
0.0						
0.0						
22						
0.0						
0.0						
24						
0.0						

Remarks: Groundwater Sample Collected: 23-28 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner/Sharon Drummond
Project: Benning Road Facility	Northing: 448859.40 Easting: 1325155.21	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 23.74	Groundwater Encountered (ft bgs): NA
Start Date: 6/10/2013	Drilling Method: DPT	Water Level (ft bgs): 14.52
Finish Date: 6/10/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5		0.0	CONCRETE		0.5 CONCRETE	
1		0.0	FILL		1 Clean FILL SAND, fine grain, moist	
2		0.0	FILL		2 Fillstone GRAVEL, small to medium, well graded, moist	
4		0.0	SM		Brown silty SAND, fine to medium grain, well graded, moist	
5		0.0	SM		Red-brown silty SAND, fine, some clay, moist, thin layer of coal dust at 7'	4.5-5.5
7		0.0	SM			
8		0.0	GW		8 Red-brown sandy GRAVEL, small to large gravel, well graded, subangular, coarse sand, dry	
10		0.0	SW		10 Red-brown SAND, fine to medium grain, well graded, some gravel, dry	
10	36	0.0	SP		Red-brown SAND, fine to medium grain, well graded, some gravel, dry to moist at 14', 2 cm layer of black sand at 14.5'	9.5-10.5
12		0.0				
14		0.0				
15		0.0				
16	36	0.0	SM		15 Red-brown silty SAND, fine sand, moist, layer of gravel at 16'	14.5-15.5
16		0.0	ML		16 Red-brown sandy SILT, fine sand, some clay, no plasticity	
18		0.0	CH		16.5 Red-brown sandy SILT, fine sand, some clay, no plasticity	
18		0.0			Light gray silty CLAY, low plasticity, soft, becomes tight at 19'	
19.5		0.0				
20		0.0	SM		19.5 Gray silty SAND, very fine grain, some clay, 10% gravel, small to large	
20						

Remarks: Groundwater Sample Collected: 15-20 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Michele Russell/Jeremy Joiner
Project: Benning Road Facility	Northing: 448588.91 Easting: 1325548.72	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 26.94	Groundwater Encountered (ft bgs): NA
Start Date: 6/11/2013	Drilling Method: DPT	Water Level (ft bgs): 8.91
Finish Date: 6/11/2013		Total Depth (ft): 15

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.2		0.6	CONCRETE		0.2 / CONCRETE	
0.5		15.6	SP		0.5 / Tan SAND, coarse, very moist	
1		16.1	SP		1 / Tan SAND, coarse, saturated	
2		0.6	SP		2 / Orange-brown SAND, medium to coarse grain, poorly graded, trace silt, moist	
3		5.2	SP		3 / Orange-brown SAND, medium to coarse grain, poorly graded, moist	
4		18.3	SW		4 / Orange-brown SAND, medium to medium-fine grain, poorly graded, moist	
5		0.0			5 / Orange-brown SAND, medium to medium coarse grain, moist	
6		0.0			6 / Red SAND, fine to medium grain, well graded, moist	4.5-5.5
7		0.0				
8		0.0				
9		0.0	SW		9 / Red SAND, fine to medium grain, well graded, small quartz gravel, moist	
10		0.0	SW		10 / Brown/red SAND, fine to coarse grain, well graded, little small gravel, wet	9.5-10.5
11		0.0				
12		0.0				
13		0.0	CL		13 / Brown silty CLAY, lean, no plasticity, medium stiff, moist	
14		0.0				
15						14-15

Remarks: Groundwater Sample Collected: 13-18 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Nathan Pinsker/Jeremy Joiner
Project: Benning Road Facility	Northing: 448976.92 Easting: 1325531.22	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 23.79	Groundwater Encountered (ft bgs): NA
Start Date: 6/4/2013	Drilling Method: DPT	Water Level (ft bgs): 12.58
Finish Date: 6/4/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		68.0	FL		0.2' / Gravel lot	
2		53.8			Dark brown SAND, fine grain, moist	
		114.0				2.5-3.5
4		56.0				
		20.4	SP		Dark brown SAND with large gravel (1"), moist	
6		0.0	SW		Brown gravelly SAND, fine to medium grain, well graded, small to medium gravel, little silt, moist	
		0.0				
8		0.0				
		0.0				
10		0.0				9.5-10.5
		0.0				
12		0.0	ML		Brown clayey SILT, low plasticity, moist, mica flakes present	
		0.0				
14		0.0				
		0.0	SC		Brown clayey SAND, fine to medium grain, well graded, no plasticity, moist, wet at 15'	
16		6.2				
		12.8	SP		Brown gravelly SAND, fine to medium grain, well graded, little clay, small gravel, wet	
18		23.6				
		6.7				17.5-18.5
20		0.0				

Remarks: Groundwater Sample Collected: 15-20 ft bgs

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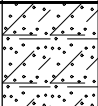
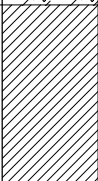
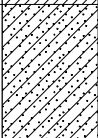

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 447862.07 Easting: 1325677.11	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 32.49	Groundwater Encountered (ft bgs): NA
Start Date: 6/5/2013	Drilling Method: DPT	Water Level (ft bgs): 12.75
Finish Date: 6/5/2013		Total Depth (ft): 49.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5	6.7		FILL		Asphalt, gravel, FILL MATERIAL	
1		130.0	SP		Tan SAND, medium coarse grain, very moist	
2			ML		Dark brown sandy SILT, fine to medium grain, well graded, small to medium gravel	1.5-2.5
2		80.5	CL		Orange- tan and orange-brown silty CLAY, moist	
4						
5		0.0	SM		Black/brown silty SAND, trace gravel, fine to medium grain, well graded, moist	
6		0.0				
6		0.0				
7.5		0.0				
8		0.0	COAL		Black COAL ASH, moist	
8		0.0	SW		Brown gravelly SAND, medium to coarse grain, small gravel, moist	
10		0.0				9.5-10.5
10		0.0				
12		0.0				
12		0.0				
14		0.0				
14		0.0				
15		0.0				14.5-15.5
16		0.0	SW		Brown gravelly SAND, fine to medium grain, well graded, moist	
16		0.0	SW		Black gravelly SAND, fine to medium grain, well graded, moist to wet at 16'	
18		0.0				
18		0.0				
20		0.0				
20		0.0	SP		Reddish-brown SAND, little silt, fine to coarse grain, poorly graded towards coarse, some small gravel, wet	
22		0.2				
22		0.3				
24		0.4				
24		0.0				
25		0.0	SP		Tan SAND, little silt, fine to coarse grain, poorly graded towards coarse, some gravel, small size, wet	
26		0.0				
26		0.0				
28		0.0				
28		0.0				
29		0.0				
29		0.0	GW		GRAVEL, small to medium, well graded, wet	
30		0.0	SW		Tan gravelly SAND, small to medium gravel, medium to coarse grain sand, well graded, wet	
32		0.0				
32		0.2				
34		0.0				
34		0.0				

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 44.5-49.5 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 447862.07 Easting: 1325677.11	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 32.49	Groundwater Encountered (ft bgs): NA
Start Date: 6/5/2013	Drilling Method: DPT	Water Level (ft bgs): 12.75
Finish Date: 6/5/2013		Total Depth (ft): 49.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	SW		Tan gravelly SAND, small to medium gravel, medium to coarse grain sand, well graded, wet (<i>continued</i>)	
38		0.0	CL		Gray CLAY, low plasticity, moist, soft	
40		0.0				
42		0.0				
44		0.0				
46		0.0	SC		Gray clayey SAND, fine to medium grain, well graded, low to no plasticity, wet	
48			GW		Gray sandy GRAVEL, fine to medium grain, small to medium gravel, well graded, wet	

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 44.5-49.5 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448307.48 Easting: 1325651.50	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 33.24	Groundwater Encountered (ft bgs): NA
Start Date: 6/12/2013	Drilling Method: DPT	Water Level (ft bgs): 12.2
Finish Date: 6/12/2013		Total Depth (ft): 23

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	ASPHALT		0.8 ASPHALT	
		0.0	FILL		1.1 Gravel base stone	
2		0.0	ML		1.51 Reddish brown clayey SILT, no plasticity, few gravel, moist	
		0.0	SM		Brown silty SAND, fine to medium grain, well graded, moist	
		0.0	CL		3 Gray CLAY, low plasticity, moist	
4		0.0	ML		4 Brown SILT, some sand, moist	
		0.0	ML		5 Brown SILT, some sand, fine grain, wet	4.5-5.5
6		0.0	ML		7 Brown clayey SILT, little gravel, fine grain, no plasticity, medium density, moist	
8		0.0	ML		9 Reddish-brown sandy SILT, little clay, fine to medium grain sand, well graded, medium stiff, no plasticity, moist	
10		0.0	ML		11 Reddish-brown gravelly SAND, fine to medium grain, well graded, small to large gravel, poorly graded towards large size, medium dense, moist	9.5-10.5
12		0.0	SW		15 Reddish-brown SAND, fine to medium grain, well graded, trace gravel, medium size, saturated	
14		0.0	SW			
16		1.7	SW			
		3.4	SW			
18		3.6	SW			17.5-18.5
		2.1	SW			
20		1.0	SW			
		0.0	SW			
22		1.9	CL		22 Gray CLAY, lean, soft, no plasticity, trace fine sand, wet	
		1.1	CL		23	

Remarks: Groundwater Sample Collected: 15-20 ft bgs

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Boring Log

BORING #: SUS/DP21

Sheet 1 of 1








Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Sean Crouch/Dan Hulbert
Project: Benning Road Facility	Northing: 447908.40 Easting: 1326039.45	Drilling Company:
Project #: 60287343.01	Surface Elevation (ft): 30.57	Groundwater Encountered (ft bgs): NA
Start Date: 2/17/2013	Drilling Method:	Water Level (ft bgs): NA
Finish Date: 2/17/2013		Total Depth (ft): 1.75

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
			CONCRETE		0.5 CONCRETE	
			FILL		1 CRUSHER RUN	
			SP		1.75 SAND with gravel, dry	

Remarks: Groundwater Sample Collected: NA

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














Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner/Dan Hulbert
Project: Benning Road Facility	Northing: 448181.51 Easting: 1326045.35	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 30.40	Groundwater Encountered (ft bgs): 15
Start Date: 6/12/2013	Drilling Method: DPT	Water Level (ft bgs): 15.0
Finish Date: 6/12/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5			ASPHALT		ASPHALT	0-1
2			FILL		Large stone, gravel, crusher run, organic material(wood)	
4			FILL		Brown/black SAND, medium grain, brick fragments, large gravel	2.5-3.5
6	0.0					
6	0.5		CL		Brown silty CLAY, little sand, fine grain, lean, medium stiff, no plasticity, moist	
8	2.5					
8	3.5					
10	3.0		ML		Reddish-brown clayey SILT, no plasticity, lean clay, moist	
12	2.5					9.5-10.5
12	2.8					
12	1.5					
14	1.1		SC		Gray SAND, fine to medium grain, well graded, trace clay, no plasticity, medium dense, moist, mica flakes present	
16	0.8					14.5-15.5
16	0.5					
16	0.0					
18	0.0		ML		Brown sandy SILT, fine grain sand, stiff, wet	
20	0.0					

Remarks: Groundwater Sample Collected: 15-20 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448372.41 Easting: 1325902.86	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 34.75	Groundwater Encountered (ft bgs): NA
Start Date: 6/12/2013	Drilling Method: DPT	Water Level (ft bgs): 16.53
Finish Date: 6/12/2013		Total Depth (ft): 30

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
1			ML		1 Gray SILT, medium sand, gravel	
2			SW		SAND, medium to fine, slightly moist, mica flakes	
4						
5						
6	0.0		CL		5 Reddish-brown CLAY, lean, no plasticity, stiff, moist	4.5-5.5
8	0.0					
10	0.0					9.5-10.5
12	0.0					
14	0.0					
16	0.0					14.5-15.5
18	0.0					
20	0.0					
22	0.0		CL		20 Gray sandy CLAY, lean, no plasticity, medium density, very moist	
24	0.0					
26	0.0					
28	0.0					
30	0.0		SC		28 Gray clayey SAND, fine to medium grain, well graded, no plasticity, wet	

Remarks: Groundwater Sample Collected: 23-28 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448915.42 Easting: 1325886.22	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 28.00	Groundwater Encountered (ft bgs): NA
Start Date: 6/4/2013	Drilling Method: DPT	Water Level (ft bgs): 11.83
Finish Date: 6/4/2013		Total Depth (ft): 53.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
			FILL		0.5 FILL MATERIAL	
			SP		1 Fine SAND, little small gravel, coal pieces	
2			SW		SAND, fine to medium grain, well graded, slightly moist	
4						
6	0.0		SW		5 Reddish-brown SAND, fine to medium grain, well graded, moist	4.5-5.5
8	0.0					
10	0.0		CL		10 Gray CLAY, tight, no plasticity, moist	9.5-10.5
12	0.0		SW		10.5 Brown SAND, fine to medium grain, well graded, some gravel, medium size, moist to wet, saturated at 14'	
14	0.0					
16	0.0					14.5-15.5
18	0.0					
20	0.0					
22	0.0					
24	0.0		SM		24 Dark brown silty SAND, fine grain, little gravel, wet	
26	0.0		GW		25 Light brown sandy GRAVEL, small size, trace large gravel, fine to medium grain sand, well graded, wet	
28	0.0					
30	0.0					
32	0.0		CL		32 Gray CLAY, medium lean, no plasticity, moist	
34	0.0		SC		34 Gray clayey SAND, fine grain, loose, no plasticity, moist	
					35	

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 48.5-53.5 ft bgs Refusal at 53.5 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448915.42 Easting: 1325886.22	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 28.00	Groundwater Encountered (ft bgs): NA
Start Date: 6/4/2013	Drilling Method: DPT	Water Level (ft bgs): 11.83
Finish Date: 6/4/2013		Total Depth (ft): 53.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	SC		Gray clayey SAND, fine grain, loose, no plasticity, black organic material, moist	
		0.0				
38		0.0				
		0.0				
40		0.0	SW		Gray SAND, fine to medium grain, moist, little clay, no plasticity	
		0.0				
42		0.0				
		0.0				
44		0.0	TOPSOIL		44.5	
		0.0				
46		0.0	SW		45 Black wood debris, saturated	
		0.0				
48		0.0	SW		Black SAND, fine to coarse grain, well graded, wet, trace gravel	
		0.0				
50		0.0				
		0.0				
52					53.5	

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 48.5-53.5 ft bgs Refusal at 53.5 ft bgs

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Boring Log

BORING #: SUS/DP25

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Sean Crouch/Dan Hulbert
Project: Benning Road Facility	Northing: 448373.88 Easting: 1326293.73	Drilling Company:
Project #: 60287343.01	Surface Elevation (ft): 36.35	Groundwater Encountered (ft bgs): NA
Start Date: 2/17/2013	Drilling Method:	Water Level (ft bgs): NA
Finish Date: 2/17/2013		Total Depth (ft): 1

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
			CONCRETE		0.5 CONCRETE	
			SP		0.8 CRUSHER RUN	
					1 Red brown SAND, coarse grain, dry	

Remarks: Groundwater Sample Collected: NA

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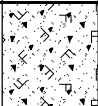

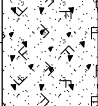


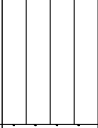






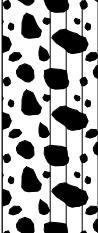

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch/Dan Hulbert
Project: Benning Road Facility	Northing: 448836.13 Easting: 1324598.97	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 19.44	Groundwater Encountered (ft bgs): 10
Start Date: 3/29/2013	Drilling Method: DPT	Water Level (ft bgs): 11.55
Finish Date: 3/29/2013		Total Depth (ft): 30

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.7			ASPHALT		ASPHALT	
2			FILL MATERIAL		CRUSHER RUN with sand (Fill Material)	
4			FILL MATERIAL		Black cobbles, stones, some sand and silt, moist, (Fill Material) with black geotech fabric at 2' bgs.	
4			MH		Reddish-brown sandy SILT, trace cobbles, little gravel, moist	3.5-4.5
6	30	0.0				
8		0.0	MH		Reddish-brown sandy SILT with gravel, trace cobbles, moist	
10		0.1				
10	60		SW		Yellow-brown to gray-black SAND with gravel, coarse, wet, medium dense	
12		0.0				
12.5			MH		Gray sandy SILT with gravel, medium stiff, moist	13.5-14.5
14		0.0				
15	48	0.0	SW-GW		Olive-brown to yellow-brown gravely SAND, coarse, wet, loose, some clay	
18		0.0				
20		0.0				
20	48		SW-GW		Yellow-brown gravely SAND, coarse, wet, loose	
22		0.0				
24		0.0				
26	60	0.0				
28		0.0	MH		Gray sandy SILT, fine, moist, soft	
30		0.0				29-30

Remarks: Groundwater Sample Collected: 25-30 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Jeremy Joiner/Dan Hulbert
Project: Benning Road Facility	Northing: 448861.73 Easting: 1324421.53	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 19.16	Groundwater Encountered (ft bgs): 7
Start Date: 3/26/2013	Drilling Method: DPT	Water Level (ft bgs): 13
Finish Date: 3/26/2013		Total Depth (ft): 58

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2	48	0.0	FILL MATERIAL		Gravel fill material, composed of #57 Stone and CR-6	
4			FILL MATERIAL		2.6 Brown silty SAND, few gravel fill, material, fine to medium sand, well graded, moist	
6	41	0.0	FILL MATERIAL		6 Black SILT, little sand, moist, trace gravel, fill material	6.5-7.5
8			BRICK		8.5 Red Brick Fragments, fill material	
10			COAL		Black coal dust fill, slightly moist, compacted, fill material	
12	50	0.0	ML		Light brown clayey SILT, little sand, medium to fine sand, well graded, moist to wet, no plasticity	
14			SM		13 Brown silty SAND, medium to fine grain, poorly graded, wet, trace clay	
16	60	0.0	SP		15 Brown SAND, medium grain, well graded, little silt, saturated	
18			SC		17 Brown clayey SAND, medium grain, saturated	
20			SW		18.5 Brown SAND, medium to fine grain, well graded, little clay, moist	
22	60	0.0	SW		20 Black SAND, medium to fine grain, well graded, little clay, saturated	21.5-22.5
24			SC		22 Black clayey SAND, medium grain, slight plasticity, wet, firm	
26	50	0.0	GW-GM		23 Reddish-brown silty GRAVEL, small to large gravel, well graded, saturated, trace clay	
28						
30			SW		29 Reddish-brown SAND, medium to fine grain, well graded, little gravel, wet	

Remarks: Groundwater Sample Collected: 48-58 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Jeremy Joiner/Dan Hulbert
Project: Benning Road Facility	Northing: 448861.73 Easting: 1324421.53	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 19.16	Groundwater Encountered (ft bgs): 7
Start Date: 3/26/2013	Drilling Method: DPT	Water Level (ft bgs): 13
Finish Date: 3/26/2013		Total Depth (ft): 58

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
30						
30	60	0.0	SW		Brown SAND, fine and medium grain, well graded, some gravel, medium grain, moist to wet	
32					32.5	
32			ML		Brown clayey SILT, wet, smooth, pliable, low plasticity	
34					35	
34			ML		Gray clayey SILT, wet, smooth, pliable, low plasticity	
36	60	0.0	ML		Gray clayey SILT, wet, smooth, pliable, low plasticity	
38					37	
38			CL		Gray silty CLAY, low to medium plasticity, very moist	
40					40	
40	55	0.0	CL		Gray CLAY, little silt, medium plasticity, wet	
42					44.5	
42			SC		Gray clayey SAND, fine to medium grain, well graded, wet	
44					45	
44			GW		Reddish-brown sandy GRAVEL, small to large gravel, medium to fine sand, well graded, wet, little silt	
46	17	0.0	GW		Reddish-brown sandy GRAVEL, small to large gravel, medium to fine sand, well graded, wet, little silt	
48					52	
48			ML		Gray sandy SILT, trace gravel, moist, fine grain sand, firm	
50	42	0.0	ML		Gray sandy SILT, trace gravel, slightly moist, fine grain sand, firm	
52					55	
52			ML		Gray sandy SILT, trace gravel, slightly moist, fine grain sand, firm, some clay	
54					58	
54	60	0.0	ML		Gray sandy SILT, trace gravel, slightly moist, fine grain sand, firm, some clay	
56						
56						
58						57-58

Remarks: Groundwater Sample Collected: 48-58 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch/Dan Hulbert
Project: Benning Road Facility	Northing: 448631.69 Easting: 1324197.54	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 19.81	Groundwater Encountered (ft bgs): 11
Start Date: 4/2/2013	Drilling Method: DPT	Water Level (ft bgs): 15.92
Finish Date: 4/2/2013		Total Depth (ft): 32

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2		0.5	FILL MATERIAL		1 Gray to black, gravely SAND, fine, loose (fill), dry	
		0.3	FILL MATERIAL		2 Gray to brown sandy CLAY, lean, fine, medium, stiff (fill), dry	
		0.3	FILL MATERIAL		3 Gray to black gravely SAND, fine, loose (fill) dry	
4		0.2	FILL MATERIAL		Yellow-brown SAND, trace silt, fine, loose, dry	
		0.5	FILL MATERIAL			
6	48	0.0	SP			6 Brown SAND with gravel, coarse, loose, moist, transition to wet at 7'
8		0.0				7.5-8.5
10		0.0				
12	48	1.5				
14		0.9				
16	56	1.9			17 Yellow-brown silty CLAY with sand, moist, fine, soft, fat	
18		1.9	CH			
20	24	2.8	GW-SP		19.5 Brown gravely SAND, coarse, wet, loose	
22		1.7	GW-SP		21 Brown gravely SAND, coarse, wet, loose	20.5-21.5
24	36	1.3	GW-SP		22 Olive gravely SAND, coarse, wet, loose	
26		2.8				
28	36	1.7				
30		2.3				
		1.9				
30						

Remarks: Groundwater Sample Collected: 25-33 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch/Dan Hulbert
Project: Benning Road Facility	Northing: 448631.61 Easting: 1324197.54	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 19.81	Groundwater Encountered (ft bgs): 11
Start Date: 4/2/2013	Drilling Method: DPT	Water Level (ft bgs): 15.92
Finish Date: 4/2/2013		Total Depth (ft): 32

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
30						
	24	0.8	CH		Gray silty CLAY, fat, trace sand, fine, soft, gray, moist	
32			SM		31.5 32 Gray silty SAND, fine dense, wet	32

Remarks: Groundwater Sample Collected: 25-33 ft bgs

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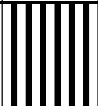
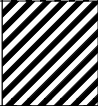
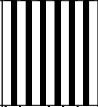
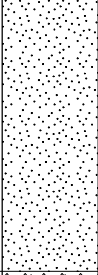

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448585.61 Easting: 1324524.98	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 20.29	Groundwater Encountered (ft bgs): 11
Start Date: 4/2/2013	Drilling Method: DPT	Water Level (ft bgs): 12.15
Finish Date: 4/2/2013		Total Depth (ft): 50

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2		1.4	GW-SP		1 Gray to black gravely SAND, fine, dry	
		1.9	CL		2 Brown to gray sandy CLAY with gravel, lean, moist, medium	
4		2.2	SP		9 Olive brown SAND, some silt, fine, dry, micaceous, dense	
		1.8				
		1.2				
		0.4				
6	24	0.7				
8		0.7				
10	36	0.7	CH		9 Brown silty CLAY with sand, fine, fat, moist, medium stiff	9-11
12		1.1	MH		11 Gray sandy SILT with gravel, wet, fine, soft	
14		1.2				
16	24	0.9	SP		15 Gray-brown SAND, some silt, loose, coarse, wet	
18		1.1	SP-SC		17 Gray-brown SAND with clay, loose, wet, coarse	
20		1.0	SP-SC		19 Gray-brown SAND with clay, loose, wet, medium grain, medium dense	
22	30	1.0	GW-SW		20.5 Gray gravely SAND, coarse, some clay, loose, wet	
24		1.1				
26	18	0.8				
28		1.9				
		2.1				
30		1.6				29-31

Remarks: Groundwater Sample Collected: 45-50 ft bgs

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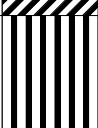

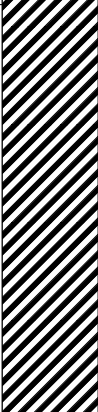



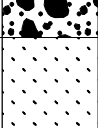
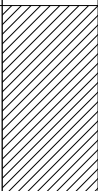
Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448585.63 Easting: 1324524.98	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 20.29	Groundwater Encountered (ft bgs): 11
Start Date: 4/2/2013	Drilling Method: DPT	Water Level (ft bgs): 12.15
Finish Date: 4/2/2013		Total Depth (ft): 50

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
30						
	56	1.6	MH		Gray sandy SILT, soft, fine, moist	
32		1.3				
					32.5	
			CH		Gray silty CLAY, some sand, fine, moist, soft, fat	
34		0.9				
					35	
36	48	1.5	MH		Gray sandy SILT, wet, fine, soft	
		0.8				
38			SP		Gray SAND, dense, medium, wet	
		1.3				
40						
	48	1.3				
42		1.0				
44		1.7				
					44	
			GW-SW		Gray-brown gravely SAND, coarse, loose, wet	
46	36	1.1				
		1.1				
48						
		1.2				
50					50	49-50

Remarks: Groundwater Sample Collected: 45-50 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448220.03 Easting: 1324149.06	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 20.70	Groundwater Encountered (ft bgs): 8
Start Date: 4/3/2013	Drilling Method: DPT	Water Level (ft bgs): 17.38;14.70
Finish Date: 4/3/2013		Total Depth (ft): 62.5

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
34		0.7	CH		Gray silty CLAY, fat, moist, medium stiff	
35						
36		0.8	MH		Gray sandy SILT, soft, moist, fine	
38		0.4				
38			CH		Gray silty CLAY, fat, moist, medium stiff	
40		0.2				
40	60	0.2	CH		Gray silty CLAY with sand, fine, fat, moist, medium stiff,	
42		0.3				
44		0.6				
46	60	0.2				
48		0.1				
50		0.1				49-51
50	36	0.1				
51						
52		0.3	SP		Gray SAND, medium, dense, wet	
52			SP		Gray SAND with clay, medium, dense, wet	
54		0.7				
54			GW-SP		Brown gravely SAND, loose, wet, medium	
55	60	0.4	SM		Gray silty SAND, dense, moist, fine	
56						
57.5		0.3	CL		Gray sandy CLAY, lean, fine, stiff	
58		0.2				
60		0.2				
62						
		0.1				

Remarks: Groundwater Sample Collected: 50-55 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448274.19 Easting: 1324152.00	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 20.81	Groundwater Encountered (ft bgs): 18
Start Date: 4/1/2013	Drilling Method: DPT	Water Level (ft bgs): 17.16; 20.86
Finish Date: 4/1/2013		Total Depth (ft): 42

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0			CONCRETE		Asphalt top 2", Concrete 10"	
2		0.0	FILL MATERIAL		Black GRAVEL fill material, some silt, little clay, moist	
4		0.0	SW-SM		Brown silty SAND, medium to fine grain, well graded, moist	
4		0.0	SM		Brown silty SAND, medium to fine grain, little clay, well graded, moist	
6	48	0.0	SW		Reddish-brown SAND, little silt, moist	
6		0.0	SP		Reddish-brown SAND, medium little silt, moist, loose, micaceous	
8		0.1	SP		Yellow-brown SAND with gravel, coarse, loose, moist, micaceous	
10		0.0				
12	42	0.0				
14		0.0				
16	36	0.0				
18		0.0	SP		Yellow-brown SAND with gravel, coarse, loose, wet, micaceous	
20	12	0.0	MH		Gray, sandy SILT, fine, moist, soft	19.5-20.5
22	42	0.0	SM		Brown silty SAND, dense, wet, fine	
22	30	0.0	GW-SW		Brown gravely SAND, coarse, wet, loose	
24		0.0				
26	24	0.1				
28		0.0				
30		0.0				

Remarks: Groundwater Sample Collected: 37-42 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448274.19 Easting: 1324152.00	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 20.81	Groundwater Encountered (ft bgs): 18
Start Date: 4/1/2013	Drilling Method: DPT	Water Level (ft bgs): 17.16; 20.86
Finish Date: 4/1/2013		Total Depth (ft): 42

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
30			GW-SW		Brown gravelly SAND, coarse, wet, loose <i>(continued)</i>	
32		0.0	CH		Gray silty CLAY, fat, moist, soft	
34		0.0				
36		0.0				
38		0.0				
40	24	0.0	SM		Gray silty SAND, dense, fine, wet	
42						41-42

Remarks: Groundwater Sample Collected: 37-42 ft bgs

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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448520.64 Easting: 1325446.88	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 26.27	Groundwater Encountered (ft bgs): 10
Start Date: 4/1/2013	Drilling Method: DPT	Water Level (ft bgs): 13.16
Finish Date: 4/1/2013		Total Depth (ft): 43

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5			CONCRETE		Concrete	
2		0.0	FILL MATERIAL		Black gravel construction fill, cobbles, some sand, little clay, moist	
4		0.0	SW		Reddish-brown SAND, some silt, trace gravel, moist	
6	36	0.0	SW		Reddish-brown SAND, some silt, gravel, moist, dense	
8		0.0				
9						
10		0.0	CH		Gray-brown silty CLAY, moist, medium stiff, moist, fat	
10	60	0.0	SP		Yellow-brown SAND, coarse, wet, medium dense	9.5-10.5
12		0.0	CL		Yellow-brown sandy CLAY, lean, moist, stiff, fine	
14		0.0				
15						
16	60	0.1	GW-SP		Yellow-brown, gravely SAND, loose, wet, coarse	
18		0.0				
19						
20		0.4	CH		Brown silty CLAY, some sand, fine, fat, coarse	
20	48	0.4	SP		Brown SAND, coarse, loose, wet	
21						
22	48	0.1	MH		Gray-brown sandy SILT, moist, soft, fine	
24		0.1				
24			GW-SP		Brown gravely SAND, coarse, wet, loose	
26	48	0.2				
28		0.5				
30		0.8				29.5-30.5

Remarks: Groundwater Sample Collected: 38-43 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448520.64 Easting: 1325446.88	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 26.27	Groundwater Encountered (ft bgs): 10
Start Date: 4/1/2013	Drilling Method: DPT	Water Level (ft bgs): 13.16
Finish Date: 4/1/2013		Total Depth (ft): 43

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
30						
	56	0.8	GW-SP		30-31 Brown gravely SAND, coarse, wet, loose <i>(continued)</i>	
32		0.4	SM		31-32 Gray silty SAND, medium, wet, dense	
			MH		32-34 Gray sandy SILT, soft, fine, wet	
34		0.7				
	48	0.9	SW		34-35 Light brown SAND, coarse, loose, wet	
36						
		0.9	SM		35-37.5 Silty SAND, medium, wet, dense	
38						
		1.0	MH		37.5-39 Gray sandy SILT, soft, fine, wet	
40						
	36	1.0	SP		39-40.5 Light brown SAND, medium, loose, wet	
			SM		40-42 Gray to black silty SAND, dense, wet	
42						
		1.5	SP		42-43 Gray SAND, coarse, loose, wet	42-43

Remarks: Groundwater Sample Collected: 38-43 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448337.53 Easting: 1325826.25	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 33.50	Groundwater Encountered (ft bgs): 12
Start Date: 4/4/2013	Drilling Method: DPT	Water Level (ft bgs): 13.94
Finish Date: 4/4/2013		Total Depth (ft): 35

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.7			ASPHALT		5" Asphalt. 3" base stone	
2	0.0	0.0	FILL MATERIAL		Black gravely SILT, fill material, moist	
3	0.0	0.0	SW		Brown SAND, medium to fine grain, well graded, little silt, moist, trace gravel	
4	0.0	0.0	SW-SM		Reddish-brown silty SAND, medium to fine grain, well graded, moist, trace gravel	
5	48	0.6	SC		Yellow-brown clayey SAND, medium, moist, medium dense	
6		0.7				
8		0.9	SC		Yellow-brown clayey SAND with gravel, medium, moist, medium dense	
10	48	0.9	SC		Yellow-brown clayey SAND, medium, wet, medium dense, increasing clay content	
12		0.9				
14		0.5				
15	54	1.3	CH		Gray to yellow-brown silty CLAY, some sand, fine, stiff, fat, moist	14-16
16		1.8				
18		1.7	CH		Gray to yellow-brown silty CLAY with sand, stiff, fat, moist	
20		1.7				
22	60	2.1	CH		Gray to yellow-brown silty CLAY with more sand, stiff, fat, moist	
23		3.2	CH		Gray to yellow-brown silty CLAY with sand, stiff, fat, moist	
24						
25	40	3.2	CL		Gray to yellow-brown sandy CLAY, lean, medium stiff, moist	
26		3.6	SC		Yellow-brown, clayey SAND, medium dense, wet, medium	
27		1.5	GW-SP		Light brown to gray, gravely SAND, coarse, loose	
28						
30		1.6				

Remarks: Groundwater Sample Collected: 27-32 ft bgs

AECOM
8320 Guilford Road Suite L
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Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448337.53 Easting: 1325826.25	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 33.50	Groundwater Encountered (ft bgs): 12
Start Date: 4/4/2013	Drilling Method: DPT	Water Level (ft bgs): 13.94
Finish Date: 4/4/2013		Total Depth (ft): 35

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
30						
32		1.6	GW-SP		Light brown to gray, gravely SAND, coarse, loose <i>(continued)</i>	
		1.2			32	
34		1.4	SP			
					35	

Remarks: Groundwater Sample Collected: 27-32 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448370.51 Easting: 1326248.97	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 36.51	Groundwater Encountered (ft bgs): 5
Start Date: 3/26/2013	Drilling Method: HSA	Water Level (ft bgs): 20.05
Finish Date: 3/26/2013		Total Depth (ft): 61

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0					Static Water Level (ft bgs): 20.05 Water Elevation (ft/msl): 19.38	
0.5		0.0	ASPHALT		ASPHALT	
1			CR		CRUSHER RUN	
2		0.0	SP		Brown to dark brown SAND, some gravel (fill), moist, coarse	
4		0.0	SP		Brown to dark brown SAND, fine, moist	
5		0.0	SP		Yellow brown SAND, fine, increasing moisture	
6		0.0	SP		Light brown SAND, coarse, moist to saturated	
6	12	0.9	SW		Light brown SAND, medium to coarse, wet, medium dense	
10						
10	20	0.9	SW		Dark brown to brown SAND, some silt, fine to coarse, wet, loose	
17-19						17-19
20						
20	20	0.3	CL		Gray CLAY, lean, trace sand, fine, moist, very soft	
24						

Remarks: Boring Terminated (ft): 61

Groundwater Sample Collected: 52.5-54 ft

AECOM
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 Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Sean Crouch
Project: Benning Road Facility	Northing: 448370.51 Easting: 1326248.97	Drilling Company: Eichelberger
Project #: 60287343	Surface Elevation (ft): 36.51	Groundwater Encountered (ft bgs): 5
Start Date: 3/26/2013	Drilling Method: HSA	Water Level (ft bgs): 20.05
Finish Date: 3/26/2013		Total Depth (ft): 61

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
26	21	0.9	CL		Gray CLAY, lean, trace sand, fine, moist, very soft <i>(continued)</i>	
28						
30						
32	24	1.1	SW		31 Light brown SAND with gravel, fine to coarse, wet, medium dense	
34						
36	18	0.5	CL		36 Gray CLAY, lean, trace sand, fine, moist, soft, decomposing organic material at 37'	
38						
40	12	0.5	CL		40 Gray CLAY, lean, trace sand, fine, moist, very soft	
42						
44						
46	24	0.6	SC	46 Yellow brown clayey SAND, medium, wet, very loose	44-46	
48						
50				50		

Remarks: Boring Terminated (ft): 61

Groundwater Sample Collected: 52.5-54 ft

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Daniel Hulbert
Project: Benning Road Facility	Northing: 447902.07 Easting: 1326034.61	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 30.53	Groundwater Encountered (ft bgs): 16
Start Date: 3/28/2013	Drilling Method: DPT	Water Level (ft bgs): 12.1
Finish Date: 3/28/2013		Total Depth (ft): 34

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval	
0							
2		0.0	FILL MATERIAL		Construction fill and debris with rocks, 5" asphalt, 6" base stone		
4		0.0					
6	12	0.0					
8		0.0					
10			SM		Dark brown-black silty SAND, soft, moist		
12	45		SM		Brown silty SAND, soft, moist		
14			CL		Green-brown silty CLAY, tight, moist		
16	12	0.0					14.5-15.5
18	36	0.0	SP		Brown SAND, fine grain, compact, wet		
20			SW		Orange-brown SAND, fine to medium, well graded		
22	40	0.0	SW		Orange-brown SAND, fine to medium, silty clay lenses, wet		
24							
26	60	0.0	CL		Gray-black silty CLAY, soft, moist		
28							
30							

Remarks: Groundwater Sample Collected: 14-16 ft bgs

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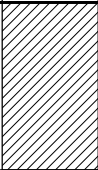


Boring Log

BORING #: DP35

Sheet 2 of 2

Client: PEPCO	Location: 3400 Benning Road NE, Washington, DC	Logged By: Daniel Hulbert
Project: Benning Road Facility	Northing: 447902.07 Easting: 1326034.61	Drilling Company: Green Services
Project #: 60287343	Surface Elevation (ft): 30.53	Groundwater Encountered (ft bgs): 16
Start Date: 3/28/2013	Drilling Method: DPT	Water Level (ft bgs): 12.1
Finish Date: 3/28/2013		Total Depth (ft): 34

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
30						
32	60	0.0	CL		Gray-black silty CLAY, soft, moist (continued)	
34						33-34

Remarks: Groundwater Sample Collected: 14-16 ft bgs

AECOM
8320 Guilford Road Suite L
Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Nathan Pinsker/ Jeremy Joiner
Project: Benning Road Facility	Northing: 448779.51 Easting: 1323668.75	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 14.70	Groundwater Encountered (ft bgs): 14
Start Date: 5/17/2013	Drilling Method: DPT	Water Level (ft bgs): 11.55
Finish Date: 5/20/2013		Total Depth (ft): 17

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	FILL MATERIAL		1 Brown silty SAND and GRAVEL, medium to fine grain sand	
2		0.0	SM		Brown silty SAND, poorly sorted, moist	
		0.0				
4		0.0				
		0.0				
6		0.0	SW		5 Reddish-brown SAND, fine to medium grain, well graded, trace gravel, moist	4.5-5.5
8		0.0	SP		10 Reddish-brown SAND, medium grain, some gravel, moist, wet at 14'	
		0.0				
10		0.0				
		0.0				
12		0.0	SP			
		0.0				
14		0.0				
		0.0				
16		0.0	SP			9.5-10.5
		0.0				
		0.0				14.5-15.5
		0.0				

Remarks: Groundwater Sample Collected: 12-17 ft bgs

AECOM
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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 448539.12 Easting: 1324339.39	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 20.19	Groundwater Encountered (ft bgs): NA
Start Date: 5/22/2013	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 5/22/2013		Total Depth (ft): 15

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2		0.0	SW-SM		1 Black SAND, medium to fine grain, well graded, some gravel, little silt, moist	4.5-5.5
		0.0	GW-GM		2 Black silty GRAVEL, medium grain, trace clay, moist	
4		0.0	SW		2.5 Black SAND, fine to medium grain, well graded, some gravel, moist, oil odor present	
		0.0	SW		Brown SAND, fine to medium grain, well graded, some gravel, moist, oil odor present	
6		0.0	SM		5 Reddish-brown silty SAND, fine to coarse grain, well graded, small gravel, moist	
		0.0			9 Brown silty SAND, fine to coarse grain, well graded, small gravel, moist	
8		0.0	SM			
		0.0				
10		0.0	SM			
		0.0				
12		0.0	SM			
		0.0				
14		0.0	SM			
		0.0				
		0.0			15	14-15

Remarks: Groundwater Sample Collected: 15-20 ft bgs

AECOM
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Columbia, MD 21046

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Michele Russell/Jeremy Joiner
Project: Benning Road Facility	Northing: 448497.45 Easting: 1324501.17	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 19.89	Groundwater Encountered (ft bgs): 12
Start Date: 5/22/2013	Drilling Method: DPT	Water Level (ft bgs): 13.03
Finish Date: 5/22/2013		Total Depth (ft): 17

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2	24	107.1	SW		1 Brown SAND, medium to coarse grain, well graded, large rounded gravel up to 2", trace silt, moist	
		88.4	SW		2 Brown SAND with gravel, medium to coarse grain, well graded, large rounded gravel up to 2", trace clay and silt, moist	
4	24	127.8	SM		3 Brown silty SAND with gravel, large rounded gravel up to 3", moderately well graded, moist	2.5-3.5
		154.1	SM		4 Brown silty SAND, some gravel up to 2" in size, moderately well graded, moist	
6	24	0.0	SM		5 Brown silty SAND, some clay, no plasticity, medium to fine grain, well graded, moist, oil odor present	
		0.0				
		0.0				
		0.0				
10	24	0.0	SM		11 Black silty SAND, little clay, no plasticity, medium to fine grain, graded towards fine, wet, oil odor present	9.5-10.5
		0.0				
14	24	0.0	GP		14 Black sandy GRAVEL, medium to coarse sand, medium gravel, wet, oil odor present	14.5-15.5
		0.0				
16	24	0.0			17	

Remarks: Groundwater Sample Collected: 13-18 ft bgs

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




Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Jeremy Joiner
Project: Benning Road Facility	Northing: 449009.85 Easting: 1324326.37	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 20.34	Groundwater Encountered (ft bgs): 13
Start Date: 5/28/2013	Drilling Method: DPT	Water Level (ft bgs): 13/40
Finish Date: 5/28/2013		Total Depth (ft): 55

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	TOPSOIL		0.3 / Topsoil, grass	
		0.0	SP		0.8 / Dark brown-black SAND, medium grain, some gravel	
2		0.0	SP		2 / Dark brown-black SAND, medium grain, some gravel, moist	
		0.0	SP		2.5 / Brown silty SAND, loose, soft, moist, wood debris	
			FILL		3 / GRAVEL, large, fill material	2.5-3.5
4			SP		Light brown SAND with gravel, medium sand, moist	
	16	0.8	SM		5 / Black silty SAND, medium grain, little clay, no plasticity, moist	
6						
8						
		0.2				
10					10 / Reddish-brown SAND, fine to medium grain, little silt, wet at 13', saturated at 18'	9.5-10.5
		0.4	SW			
		0.6				
		0.8				
12						
		0.4				
14						
		0.0				14.5-15.5
16						
		0.0				
18						
		0.3				
		0.0				
					19 / Reddish-brown sandy GRAVEL, small to medium size gravel, medium to coarse grain sand, saturated	
20			GW		20 / Reddish-brown SAND and GRAVEL, washed, medium to coarse sand, medium to large gravel, well graded, wet	
		0.3	SW-GW			
		0.7				
22						
		0.2				
		0.3				
24			SW-GW		24 / Reddish-brown SAND and GRAVEL, washed, fine to coarse sand, medium to large gravel, well graded, wet	
		0.0				
26						
		0.7				
		0.7				
28					28 / Brown SAND, fine to medium grain, graded towards fine grain, trace gravel, wet	
		0.5				
		0.7	SP			
30						
		0.5				
		0.0	ML		30 / Gray SILT, little fine grain sand, wet	
32						
		0.0				
		0.0				
34						
		0.0				

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 50-55 ft bgs

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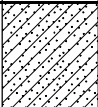
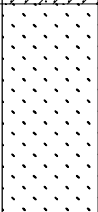
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Jeremy Joiner
Project: Benning Road Facility	Northing: 448900.74 Easting: 1324243.54	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.91	Groundwater Encountered (ft bgs): NA
Start Date: 5/24/2013	Drilling Method: DPT	Water Level (ft bgs): 15.13/16.23
Finish Date: 5/24/2013		Total Depth (ft): 44

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
2		0.0	FILL		SILT with large gravel, fine to medium size silt, fill material	
4		0.0	FILL		Sandy SILT, medium grain, smaller gravel, fill material	2.5-3.5
6		0.0	FILL		Brown and black gravelly SAND and FILL MATERIAL, brick fragments, little silt, moist to wet in spots, wet from 8'-9', dry at 9'-11'	
8		0.0				
10		0.0				9.5-10.5
12		0.0	SW		Reddish-brown SAND, fine to medium grain, well graded, trace silt, moist to very moist	
14		0.0				14.5-15.5
16		0.0				
18		0.0	SW		Reddish-brown SAND, fine to medium grain, well graded, trace silt, few small to medium gravel, very moist	
20		0.0	SP		Reddish-brown gravelly SAND, fine to coarse grain, graded towards medium to coarse, small gravel, wet	
22		0.0				
24		0.0				
26		0.0				
28		0.2	CL		Gray CLAY, trace sand and silt, low to no plasticity, moist	
30		0.0				
32		0.0				
34		0.0	SC		Gray clayey SAND, fine to medium grain, no plasticity, moist	

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 39-44 ft bgs

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





















Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Jeremy Joiner
Project: Benning Road Facility	Northing: 448900.74 Easting: 1324243.54	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.91	Groundwater Encountered (ft bgs): NA
Start Date: 5/24/2013	Drilling Method: DPT	Water Level (ft bgs): 15.13/16.23
Finish Date: 5/24/2013		Total Depth (ft): 44

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36		0.0	SC		Gray clayey SAND, fine to medium grain, no plasticity, moist (<i>continued</i>)	
		0.0				
38		0.0	SM		Gray silty SAND, fine to medium grain, graded toward fines, trace-little clay, no plasticity, very moist to wet	
		0.0				
40		0.0				
		0.0				
42						
44						

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 39-44 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Jeremy Joiner
Project: Benning Road Facility	Northing: 449248.87 Easting: 1324349.24	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 16.67	Groundwater Encountered (ft bgs): NA
Start Date: 5/21/2013	Drilling Method: DPT	Water Level (ft bgs): 13.34
Finish Date: 5/24/2013		Total Depth (ft): 35

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.5		0.0	FILL		Large gravel cover	
1.5		4.5	SP		Dark gray SAND with gravel, medium grain, some silt, dry	
2.1		1.9	SP		Dark gray SAND with gravel, medium grain, some silt, intermittently dry	
3		0.0	SP		Light tan/white SAND, very fine grain, some silt	
3.1		3.1	SP		Light tan/white SAND, very fine grain, some silt	
42.3		42.3	SP		Brown/gray SAND, fine grain, some gravel, black fly ash intermixed	
5					Brown SAND, fine to medium grain, well graded, moist	4.5-5.5
6		0.0	SW		Brown SAND, fine to medium grain, well graded, moist	
7		0.0			Brown SAND, fine to medium grain, well graded, moist	
8		0.0	CL		Brown sandy CLAY, lean clay, no plasticity, fine grain sand, moist	
9		0.0			Brown sandy CLAY, lean clay, no plasticity, fine grain sand, moist	
10		0.0	COAL		Black COAL ASH, moist	
12	12	0.0	COAL		Black COAL ASH with wood fragments throughout, moist	9.5-10.5
14		0.0			Black COAL ASH with wood fragments throughout, moist	
15					Black COAL ASH with wood fragments throughout, moist	
16	10	0.1 0.0	GW		Brown sandy GRAVEL, medium to coarse sand, medium to small gravel, all well graded, wet	14.5-15.5
18					Brown sandy GRAVEL, medium to coarse sand, medium to small gravel, all well graded, wet	
20					Brown sandy GRAVEL, medium to coarse sand, medium to small gravel, all well graded, wet	
22	12	0.0	GW		Brown sandy GRAVEL, medium to coarse sand, medium to small gravel, all well graded, some silt, wet	
24					Brown sandy GRAVEL, medium to coarse sand, medium to small gravel, all well graded, some silt, wet	
25					Brown sandy GRAVEL, medium to coarse sand, medium to small gravel, all well graded, some silt, wet	
26		0.0	CL		Gray lean CLAY, medium plasticity, moist	
28		0.0			Gray lean CLAY, medium plasticity, moist	
30		0.0			Gray lean CLAY, medium plasticity, moist	
32		0.0			Gray lean CLAY, medium plasticity, moist	
34		0.0			Gray lean CLAY, medium plasticity, moist	
35		0.0			Gray lean CLAY, medium plasticity, moist	

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 20-25 ft bgs

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8320 Guilford Road Suite L
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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Michele Russell/Jeremy Joiner
Project: Benning Road Facility	Northing: 448543.78 Easting: 1324753.62	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 22.44	Groundwater Encountered (ft bgs): NA
Start Date: 5/17/2013	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 6/16/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		0.0	FILL		0.21 / Gravel Lot	
2		0.0	ML		1 Brown silty SAND, some gravel, medium to fine grain, moderately well sorted, moist, wood debris, dark brown fine silt at 10", coal Dark brown sandy SILT, medium to coarse grain, some gravel(<1"), moist, moderately poorly sorted	
4		0.0	CL		3 Orange-brown silty CLAY, moderately dry	3.5-4.5
6		24.2			5 Black silty SAND, fine to medium grain, well graded, few small gravel, moist	
8		24.8	SM		7 Reddish-brown clayey SILT, no plasticity, moist	
10		31.9			9	
		43.0	ML		9.5 Red BRICK, crushed	
12		12.8			SM	
		23.2	BRICK		Brown gravelly silty SAND, fine to medium grain, small gravel, very moist	9.5-10.5
14		20.1	SM		13 Brown silty SAND, fine grain, saturated	
16		20.8			15 Brown sandy GRAVEL, small to medium grain, trace silt, saturated	14.5-15.5
18		21.4			17 Brown silty CLAY, no plasticity, soft to very soft, saturated	
20		20.7	SM			
		17.8				
		19.3	GW			
		21.6				
		20.3	CL			
		18.6				
		15.4				

Remarks: Groundwater Sample Collected: 15-20 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Sharon Drummond
Project: Benning Road Facility	Northing: 448866.66 Easting: 1324732.17	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 18.84	Groundwater Encountered (ft bgs): NA
Start Date: 5/21/2013	Drilling Method: DPT	Water Level (ft bgs): 9.52
Finish Date: 6/10/2013		Total Depth (ft): 19

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
1			CONCRETE		1 Concrete Pad	
2	19.5		FILL		1.5 Well graded gravel fill material	
	40.2		SP		Brown coarse SAND with small gravel, dry to moist	
	80.0				3.6 Brown SILT with medium sand, large gravel intermixed, moist	2.5-3.5
	116.0		ML		SILT with medium sand, moist	
	40.0		ML		5 Light brown clayey SILT, some sand, fine to coarse grain, 30% gravel, no plasticity, wet	
	45.0		ML		7.5 Silty GRAVEL, some coarse sand, wet	
6	48	0.9	ML		7.5 Silty GRAVEL, some coarse sand, wet	
		1.7			Red-brown gravelly SAND, fine to coarse, gravel, small to large, well graded, dry	
		1.5	GP		10 Red-brown silty SAND, fine to medium grain, well graded, 10% small gravel, dry	9.5-10.5
		1.2	SW		11 Red-brown silty SAND, medium to coarse grain, 25% small to large gravel, well graded, moist	
		1.0			17 Orange clayey SILT, little fine sand, not pliable, smooth, moist	
10	50	0.2	SM		10 Red-brown silty SAND, fine to medium grain, well graded, 10% small gravel, dry	
		0.5	SM		11 Red-brown silty SAND, medium to coarse grain, 25% small to large gravel, well graded, moist	
		0.3				
		0.2				
		0.0				14.5-15.5
16	60	0.0				
		0.0				
		0.0	ML		17 Orange clayey SILT, little fine sand, not pliable, smooth, moist	
18		0.0	SM		18.5 Red-brown silty SAND, fine grain, small gravel (<5%), well graded, moist	
		0.0	SM		19 Red-brown silty SAND, fine grain, small gravel (<5%), well graded, moist	

Remarks: Groundwater Sample Collected: 13-18 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Michele Russell/Jeremy Joiner
Project: Benning Road Facility	Northing: 449077.83 Easting: 1325409.08	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 22.86	Groundwater Encountered (ft bgs): NA
Start Date: 5/23/2013	Drilling Method: DPT	Water Level (ft bgs): 12.75
Finish Date: 6/4/2013		Total Depth (ft): 20

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
		41.2	FILL		0.3 / Gravel lot and fill material	
2		211.1	ML		0.8 / Dark brown sandy SILT and GRAVEL, moderately well sorted, moist	
		622.0	SM		2 Dark brown SILT, some sand, moderately sorted, moist	
4		134.0			Orange-brown silty SAND, medium to medium-fine grain, trace clay, well sorted, moist	2.5-3.5
		55.9	SW		4 Orange- brown SAND, medium to coarse grain, well sorted, some clay, trace silt, moist	
6		25.1	SW		5 Brown SAND, medium to coarse grain, well graded, little silt, moist	
		25.4				
		26.7				
8		32.3				
		20.7				
10		10.4				9.5-10.5
		13.4				
12		7.6				
		17.4				
14		34.4	SW		13 Brown SAND, medium to coarse grain, well graded, little silt, some gravel, small to medium size, wet	
		32.3				
16		6.7				14.5-15.5
		7.2				
18		4.3	SC		17 Reddish-brown clayey SAND, no plasticity, fine to medium grain, well graded, moist	
		2.7				
20		2.0	SP		19 Red SAND, medium and coarse grain, poorly graded towards coarse grain, very moist	

Remarks: Groundwater Sample Collected: 15-18 ft bgs

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
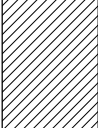

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Jeremy Joiner
Project: Benning Road Facility	Northing:	Easting:
Project #: 60287343.01	Surface Elevation (ft):	Groundwater Encountered (ft bgs): NA
Start Date: 5/22/2013	Drilling Method: DPT	Water Level (ft bgs): 10.20
Finish Date: 6/5/2013		Total Depth (ft): 42

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
0.7		0.0	ASPHALT		Asphalt	
1.5		0.0	FILL		Gravelly crusher run	
2		0.0	SP		Brown/dark brown sand, medium grain, brick, gravel	
2.5		0.0	BRICK		Brick, crushed rock	
5		0.0	SP		Brown SAND, medium grain, large stones intermixed, dry	
6		14.0	ML		Brown sandy SILT, trace clay, moist	4.5-5.5
8.5		12.0	ML		Brown sandy SILT, trace clay, some small gravel, moist, wet at 15'	9.5-10.5
		17.0				
		35.0				
		30.0				
		32.0				
14.5		30.0	ML		Brown sandy SILT, trace clay, some small gravel, moist, wet at 15'	14.5-15.5
		36.0				
		47.0				
		54.0				
18		25.0	SW		Reddish-brown SAND, medium to coarse grain, well graded, little gravel (small)	
20		17.0				
20	12	0.0	SP		Reddish-brown SAND, fine to medium grain, poorly graded towards medium grain, wet	
30	3		SC		Gray clayey SAND, no plasticity, loose, medium grain, wet	
32						
34						

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 37-42 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Jeremy Joiner
Project: Benning Road Facility	Northing:	Easting:
Project #: 60287343.01	Surface Elevation (ft):	Groundwater Encountered (ft bgs): NA
Start Date: 5/22/2013	Drilling Method: DPT	Water Level (ft bgs): 10.20
Finish Date: 6/5/2013		Total Depth (ft): 42

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
36			SC		36 Gray clayey SAND, no plasticity, loose, medium grain, wet (<i>continued</i>)	
38			CL		Gray sandy CLAY, no plasticity, medium stiff, fine grain sand, wet	
40			GW		40 Brown sandy GRAVEL, medium to large, coarse sand, wet	
42						

Remarks: Groundwater Sample Collected: 15-20 ft bgs and 37-42 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Dan Hulbert/Jeremy Joiner
Project: Benning Road Facility	Northing: 448157.16 Easting: 1325809.57	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (ft): 28.98	Groundwater Encountered (ft bgs): 8
Start Date: 5/27/2013	Drilling Method: DPT	Water Level (ft bgs): 11.01
Finish Date: 6/5/2013		Total Depth (ft): 15

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval
0						
			TOPSOIL		0.5 Grass/ Organic Material	
		0.0	FILL MATERIAL		Topsoil, gravel and rock	
2		0.0	FILL MATERIAL		Rock/concrete	1.5-2.5
4						
6		6.7	SM		Reddish-brown silty SAND, fine to medium grain, well graded, trace small gravel, moist	
		8.4				
8		12.7				
		42.7				
10		53.2	SW		Black gravelly SAND, fine to medium grain, well graded, some small gravel, wet, oil odor	9.5-10.5
		36.7				
12		25.3				
		15.7	SW		Black gravelly SAND, fine to medium grain, well graded, some small gravel, saturated	
14		28.9				
		20.1				14-15




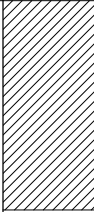

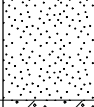

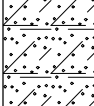

Remarks: Groundwater Sample Collected: 10-15 ft bgs

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**Phase I
DP-09 Investigation
Boring Logs**










Client: PEPCO	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 1324620.02 Easting: 447981.28	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/14/2014	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 4/14/2014		Total Depth (ft): 30

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
0					
2	48	0.0	SW		1.6 Light brown (7.5 YR 6/4) gravelly SAND, medium to small gravel, coarse to fine sand, dense, dry
2.5		0.0	ML		2.5 Brown (7.5 YR 4/2) clayey SILT, stiff, dry
4		0.0	SP		4 Reddish yellow (5YR 6/6) SAND, medium grain, some medium to small subrounded gravel, little coarse to fine sand, dense, dry
5		0.0			5 No Recovery
6	60	0.0	CL		6 Strong Brown (7.5YR 5/6) and light gray (7.5 YR 7/1) mottled CLAY, stiff, medium plasticity, dry
8		0.0			
10		0.0			
12		0			
14		0			
16	7	0.0	SP		15.6 Yellowish red (5YR 5/6) medium sand, little small angular gravel, little coarse to fine sand, trace silt, loose, dry
18					No Recovery
20					20
22		0.0	SP		22.5 Strong Brown (7.5YR 5/6) SAND, medium grain, trace small angular gravel, medium dense, wet
24	37	0.0	SW		23.1 Strong Brown (7.5YR 5/6) SAND, coarse to fine grain, some small angular gravel, little silt, dense, wet
25					No Recovery
26		0.0	SW		25 Strong Brown (7.5YR 5/6) gravelly SAND, medium to small subrounded gravel, coarse to fine sand, little silt, dense, wet
28	44	0.0	ML		27.8 Gray (7.5YR 6/1) clayey SILT, little wood fragments, medium stiff, medium plasticity, moist
30		0.0			

Remarks: Groundwater samples collected: 25-30 ft bgs and 45-50 ft bgs

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
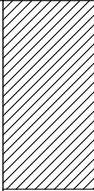
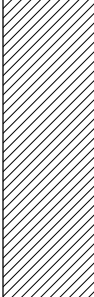




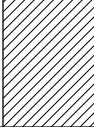


Client: PEPCO	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 1324553.10 Easting: 448063.56	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/14/2014	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 4/14/2014		Total Depth (ft): 30

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
0					
2	60	0.0	SW		1.3 Light brown (7.5 YR 6/4) gravelly SAND, medium to small angular gravel, coarse to fine sand, dense, dry
4		0.0	CL		Light brown (7.5YR 6/4) CLAY, very stiff, low plasticity, dry
6		0.0			
8	60	0.0			
10		0.0			
12	12	0.0	CL		10.3 Brown (7.5 YR 5/4) silty CLAY, stiff, dry
14			GW		11 Red (2.5 YR 4/6) sandy GRAVEL, coarse to fine sand, medium to small angular gravel, loose, dry
16					No Recovery
18	43	0.0	SP		15 Strong brown (7.5 YR 5/6) SAND, medium grain, little subrounded gravel, medium dense, dry
20					18.6 No Recovery
22	42	0.0	CL		20 Light brown (7.5 YR 6/4) CLAY, little silt, little medium to fine sand, stiff, moist
24		0.0	SP		21 Strong brown (7.5 YR 5/6) SAND and GRAVEL, medium sand, medium to small rounded gravel, dense, wet
26		0.0			23.5 No Recovery
28	54	0.0	SP		25 Strong brown (7.5 YR 5/6) SAND, medium grain, dense, wet
30		0.0	CL		26.5 Light brown (7.5 YR 6/3) and light gray (10YR 7/1) mottled CLAY, some silt, stiff, low plasticity, dry
					29.4 No Recovery
					30 No Recovery

Remarks: Groundwater sample collected: 25-30 ft bgs

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
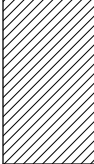

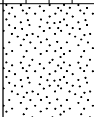
Client: PEPCO	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 1324705.95 Easting: 448023.93	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/14/2014	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 4/14/2014		Total Depth (ft): 50

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
0					
		0.0	ASPHALT		0.5 Asphalt
			SP		1.5 Brown (7.5YR 4/3) SAND, medium grain, some gravel, little silt, dense, moist
2	42	0.0	CL		Brownish yellow (10YR 6/6) and light gray (10YR 7/2) mottled CLAY, stiff, low plasticity, moist
		0.0			3.5 No Recovery
4		0.0			5 No Recovery
6		0.0	CL		Brownish yellow (10YR 6/6) and light gray (10YR 7/2) mottled CLAY, little silt, stiff, medium plasticity, moist
		0.0			9.5 No Recovery
8	54	0.0			10 No Recovery
		0.0	CL		Brownish yellow (10YR 6/6) and light gray (10YR 7/2) mottled CLAY, little silt, stiff, medium plasticity, moist
10		0.0			17.2 No Recovery
12	60	0.0	SC		17.6 Brownish yellow (10YR 6/6) and light gray (10YR 7/2) mottled sandy silty CLAY, fine grain, medium dense, medium plasticity, moist
		0.0	CL		19 Brownish yellow (10YR 6/6) and light gray (10YR 7/2) mottled CLAY, little silt, stiff, medium plasticity, moist
14		0.0			20 Strong brown (7.5YR 5/6) clayey SILT, trace small to medium subrounded gravel, stiff, medium plasticity, moist
16		0.0	ML		21.8 Brownish yellow (10YR 6/6) and light gray mottled clayey SILT, some medium to small subrounded gravel, little fine sand, stiff, medium plasticity, moist
18	60	0.0	CL		23.9 Brownish yellow (10YR 6/6) and light gray (10YR 7/2) mottled CLAY, stiff, medium plasticity, dry
20		0.0			25 No Recovery
22	47	0.0	CL		28.2 Reddish brown (5YR 5/4) and light gray (10YR 7/2) mottled CLAY, stiff, medium plasticity, dry
24		0.0			29.8 No Recovery
26		0.0	CL		29.8 Strong brown (7.5YR 5/6) gravelly SAND, coarse to fine grain, coarse to small subrounded gravel, little silt, dense, wet
28	58	0.0	SW		
30		0.0			

Remarks: Groundwater samples collected: 25-30 ft bgs and 45-50 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 1324705.95 Easting: 448023.93	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/14/2014	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 4/14/2014		Total Depth (ft): 50

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
30					
		0.0	SW		30 No Recovery
		0.0	CL		30.4 Strong brown (7.5YR 5/6) gravelly SAND, coarse to small subrounded gravel, coarse to fine sand, loose, wet Gray (7.5YR 6/1) CLAY, trace wood fragments, stiff, medium plasticity, moist
32	54	0.0			
		0.0			
34		0.0			
		0.0			
					34.5
					35 No Recovery
36		0.0	ML		Gray (7.5YR 6/1) SILT, little fine sand, stiff, moist
		0.0			
38	60	0.0	SP		37.1 Gray (7.5YR 6/1) medium SAND, some fine sand, little silt, medium dense, wet
		0.0			
40		0.0			40

Remarks: Groundwater samples collected: 25-30 ft bgs and 45-50 ft bgs

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
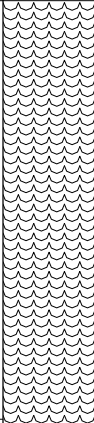
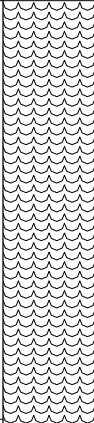
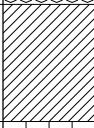

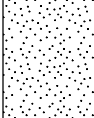
Client: PEPCO	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 1324869.92 Easting: 447961.00	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/18/2014	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 4/18/2014		Total Depth (ft): 55

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
0					
		0.0	ASPHALT		1 Asphalt
2	40	0.0	SP		Strong brown (7.5YR 5/6) SAND, fine grain, little medium to small rounded gravel, dense, moist
4		0.0			3.3 No Recovery
6		0.0	CL		Greenish gray (GLE Y1 6/1) and grayish brown (10YR 5/2) laminated silty CLAY, stiff, medium plasticity, dry
8	47	0.0			5 No Recovery
10		0.0			8.9 No Recovery
12		0.0	CL		Greenish gray (GLE Y1 6/1) and grayish brown (10YR 5/2) laminated silty CLAY, stiff, medium plasticity, dry
14	49	0.0	CH		12.4 Gray (7.5YR 5/1) CLAY, stiff, high plasticity, dry
16		0.0			14.1 No Recovery
18		0.0	CH		15 Light olive brown (2.5Y 5/3) CLAY, soft, high plasticity, moist
20	43	0.0			18.2 No Recovery
22		0.0	ML		18.6 Brown (7.5YR 5/3) SILT, soft, moist
24		0.0			20 No Recovery
26	49	0.0	SP		Brown (7.5YR 5/3) silty SAND, fine grain, trace small subrounded gravel, loose, moist
28		0.0	CL		22.3 Greenish gray (GLE Y1 6/1) and grayish brown (10YR 5/2) laminated silty CLAY, stiff, medium plasticity, dry
30		0.0			24.1 No Recovery
	53	0.0	CL		25 Greenish gray (GLE Y1 6/1) and grayish brown (10YR 5/2) laminated silty CLAY, trace coarse sand, stiff, medium plasticity, dry
		0.0			28 No Recovery
		0.0	GM		28 Strong brown (7.5YR 5/6) SILT and GRAVEL, medium to small subangular gravel, dense, moist
		0.0			29.4 No Recovery

Remarks: Groundwater samples collected: 30-35 ft bgs and 50-55 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 1324869.92 Easting: 447961.00	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/18/2014	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 4/18/2014		Total Depth (ft): 55

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
30					
		0.0	SP		31.6 Strong Brown (7.5YR 5/8) SAND, medium to fine grain, some medium to small rounded gravel, little silt, dense, wet
32	42	0.2	CL		33.5 Gray (7.5YR 5/1) CLAY, very stiff, medium plasticity, dry
34		0.0			No Recovery
					35
36	60	0.0	OH		35 Gray (7.5YR 5/1) CLAY, some organic material (wood, reeds, fibers), very stiff, medium plasticity, dry
		0.0			
38		0.0			
40		0.0			
42	60	0.0	OH		45
		0.0			
44		0.0			
46		0.0			
48	60	0.0	CL		47.2 Gray (7.5YR 5/1) silty CLAY, graded to clayey silt at 49.4' , medium plasticity, stiff, moist
50		0.0			50
52	60	0.0	ML		51.9 Gray (7.5YR 5/1) SILT, stiff, wet
		0.0	SP		54.6' Gray (7.5YR 5/1) SAND, fine grain, medium dense, graded to medium sand at 54.6' , wet
54		0.0			55

Remarks: Groundwater samples collected: 30-35 ft bgs and 50-55 ft bgs

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 1324640.45 Easting: 448118.96	Drilling Company: Green Services
Project #: 60287343.01	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/14/2014	Drilling Method: DPT	Water Level (ft bgs): NA
Finish Date: 4/14/2014		Total Depth (ft): 35

Depth (ft bgs)	Recovery Length (inches)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
0					
0.1			WOOD		Wood Chips
2	55	0.0	CL		Strong brown (7.5YR 5/6) and gray (10YR 7/1) mottled CLAY, stiff, low plasticity, dry
4		0.0			
4.6		0.0			
5		0.0	CL		No Recovery
6		0.0			Strong brown (7.5YR 5/6) and gray (10YR 7/1) mottled CLAY, stiff, low plasticity, dry
8	60	0.0			
10		0.0			
12		0.0			
14	60	0.0			
16		0.0			
18		0.0			
18.1		0.0	CL		Brownish yellow (10YR 6/6) and red (2.5YR 4/6) mottled CLAY, little silt, trace small rounded gravel, stiff, dry
20		0.0			
22		0.0			
22.5	56	0.0	SW		Strong brown (7.5YR 4/6) SAND, medium to fine grain, little medium to small subrounded gravel, dense, wet
24		0.0			
24.7		0.0			
25		0.0	SW		No Recovery
26		0.0			Strong brown (7.5YR 4/6) SAND, medium to fine grain, little medium to small subrounded gravel, dense, wet
28	47	0.0			
28.9		0.0			
30		0.0			No Recovery
30		0.0	SW		Brownish yellow (10YR 6/6) gravelly SAND, medium to small rounded gravel, coarse to fine sand, little silt, dense, wet
32		0.0			
32	48	0.0			
33		0.0			
33		0.0	ML		Gray (10YR 6/1) SILT, some fine sand, stiff, moist
34		0.0			
34		0.0			No Recovery
35					

Remarks: Groundwater sample collected: 25-30 ft bgs

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Phase I Monitoring Well Boring Logs

	Client: PEPCO		Boring: MW-1
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448230.8' N 1323686.7' E Ground Elev: 12.88' NAVD88		
Drilling Method: Sonic		Sheet: 1 of 4	
Sample Type(s): 4" Open Drive Core		Well Installed: Dual Nested	
Boring Diameter: 6" / 8"		Screen: 10-35 and 40-52	
Weather: Overcast/Clear ~60's F		Logged By: GR	Start Date: 9/17/2014
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014	Depth of Boring: 70
			Water: 10 and 45

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1	NA	NA	NA			SM/FILL	0 to 5 Unimproved surface. 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be SILTY SAND FILL	Flush pad Concrete	
2	NA	NA	NA			SM/FILL			
3	NA	NA	NA			SM/FILL			
4	NA	NA	NA			SM/FILL		Bentonite grout slurry	
5	NA	NA	40%	0.0		SM/FILL	5 to 10 5 to 7 ft. bgs: SILTY SAND (SM); reddish brown; fine sand (60-70%); nonplastic fines (15-20%); few gravel (up to 1.5"), subangular; loose; weakly cemented; wet - infiltration or drilling fluid. (FILL)		
6	NA	NA	40%	0.0		SM/FILL	7 to 10 ft. bgs: Not recovered.		Well seal
7	NA	NA	40%	0.0		SM/FILL			
8	NA	NA	40%	0.0		SM/FILL			
9	NA	NA	40%	0.0		SM/FILL			
10	NA	NA	40%	0.0		SM/FILL	10 to 15 10 to 11 ft. bgs: Same as Above. (SM - FILL) with trace clay. Wet.		
11	NA	NA	40%	0.0		SM/FILL	11 to 11.8 ft. bgs: Well graded SILTY SAND (SM); coarse to fine sand, subangular; nonplastic fines (20%); few gravel (up to 1"), subangular, quartzite, increasing toward downward; loose; wet.		
12	NA	NA	40%	0.0		ML/CL	-----Contact----- 11.8 to 12.5 ft bgs: SILTY CLAY with organics (ML/CL); brown; trace fine sand; soft; low plasticity; wood (25-30%); dry.		
13	NA	NA	40%	0.0		ML/CL	12.5 to 15 ft bgs: Not recovered.		
14	NA	NA	40%	0.0		ML/CL		0.01" slotted screen	
15	NA	NA	40%	0.0		GM	15 to 20 15 to 17 ft. bgs: Well graded SILTY SANDY GRAVEL (GM); brown; gravel (up to 1"), subround, crystalline, multicolor; coarse to fine sand, angular to subround; silt (~15%); trace clay; nonplastic; loose; weakly cemented; saturated.		
16	NA	NA	40%	0.0		GM	---sharp color change--- 17 to 19 ft. bgs: Same as above (GM); yellowish orangish red; few small cobbles, quartzite; heavily oxidized; saturated.		#2 sand
17	NA	NA	40%	0.0		GM			
18	NA	NA	40%	0.0		GM			
19	NA	NA	40%	0.0		GM			
20	NA	NA	40%	0.0		GM	19 to 20 ft. bgs: Not recovered.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).	Analytical: Soil samples not collected.
	Clean city water used during boring advancement as drilling fluid.
Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.	Checked by: _____ Date: _____

	Client: PEPCO	Boring: MW-1
	Project Number: 60287343.09	
	Site Location: 3400 Benning Road NE, Washington, DC	
	Coordinates: 448230.8' N 1323686.7' E Ground Elev: 12.88' NAVD88	
Drilling Method: Sonic	Well Installed: Dual Nested	
Sample Type(s): 4" Open Drive Core	Boring Diameter: 6" / 8"	Screen: 10-35 and 40-52

Weather: Overcast/Clear ~60's F	Logged By: GR	Start Date: 9/17/2014	Depth of Boring: 70
Drilling Contractor: Summit - Danny Ninevski	Date Complete: 9/25/2014	Water: 10 and 45	

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion	
21	NA	NA	60%	0.0		GM	20 to 25			
22				0.0			20 to 22.7 ft bgs: Same as above (GM); first 6" predominately clean gravel; black staining at 21 ft.; fine content increases with depth.			
23				0.0			22.7 to 23 ft. bgs: Well sorted SILTY SAND/SAND with SILT (SM/SP); orangish red; predominately fine sand; angular; nonplastic fines (10-20%); very loose; micaceous; saturated.			
24				0.0			23 to 25 ft. bgs: Not recovered.			
25	NA	NA	50%	0.0		GW	25 to 30			
26				0.0			25 to 27.5 ft. bgs: Well graded GRAVEL (GW); tan to light yellowish brown; coarse to fine gravel; arkosic, angular to subround; coarse to fine sand; trace nonplastic fines; trace cobbles; very loose; fines increase with depth; saturated.			
27				0.0			27.5 to 30 ft. bgs: Not recovered.			
28				0.0						
29	NA	NA	60%	0.0		GW	30 to 35			
30				0.0			30 to 31.3 ft. bgs: Same as Above. (GW); clean well graded gravel; saturated.			
31				0.0			----Contact----			
32				0.0			31.3 to 33 ft. bgs: Well sorted fine SAND (SP); yellowish orange with red and bright red staining; fine sand; micaceous; medium stiff to loose; irregular intervals of sandy clay or clay (grey), between 2" up to 4" thick; oxidized more heavily above each layer; saturated.			
33	NA	NA	90%	0.0		SP	33 to 35 ft. bgs: Not recovered.			
34				0.0						
35				0.0			35 to 40			35 to 35.7 ft. bgs: Same as above. (SP) grading to SC; saturated.
36				0.0			---contact---			
37	NA	NA	90%	0.0		CH	35.7 to 38.9 ft. bgs: FAT CLAY (CH) with organics; grey with black mottle (1mm); highly plastic; medium stiff; trace carbonized organics (wood); grading into fine sand (10%) at base; dry.			
38				0.0						
39				0.0			38.9 to 39.5 ft. bgs: Poorly graded SAND (SP); yellowish orange; fine and medium sand, angular; trace clay (<5%); nonplastic; very loose; medium cementation; few muscovite; wet.			
40				0.0			39.5 to 40 ft. bgs: Not recovered.			

Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected.
 References: Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-1	
	Project Number: 60287343.09			
	Site Location: 3400 Benning Road NE, Washington, DC			
	Coordinates: 448230.8' N 1323686.7' E Ground Elev: 12.88' NAVD88			
Weather: Overcast/Clear ~60's F		Logged By: GR	Start Date: 9/17/2014	Sheet: 3 of 4
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014	Well Installed: Dual Nested	Screen: 10-35 and 40-52
			Depth of Boring: 70	Water: 10 and 45

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	80%	0.0		SP	40 to 45 40 to 44 ft bgs: Same as above. (SP); -0.5ft interval (41.7 to 42.3) of well graded angular sand with some plastic clay in lenses; wet.	40 ft.	
42				0.0					
43				0.0					
44				0.0			44 to 45 ft. bgs: Not recovered.	#2 sand	
45				0.0					
46	NA	NA	80%	0.0		SP	45 to 50 45 to 47.2 ft. bgs: Same as above. (SP); buff, fine sand, angular; loose; uncemented; wet.		
47				0.0					
48	NA	NA	80%	0.0		GW	47.2 to 49 ft. bgs: Well graded SAND and GRAVEL (GW) grading to SILTY GRAVEL (GM); coarse to fine gravel, angular, quartzite; coarse to fine sand (35%), angular, multicolor/arkosic; grading to few nonplastic fines (10-20%); very loose; saturated.	0.01" slotted screen	
49				0.0			49 to 50 ft. bgs: Not recovered.		
50				0.0					
51	NA	NA	90%	0.0		SP	50 to 55 50 to 52.1 ft. bgs: Poorly graded SAND (SP); grey with sporadic black stain; medium and fine sand, angular; trace clay (<5%); loose; weakly cemented; saturated.	52 ft.	
52				0.0			grades to SANDY CLAY (SC) with carbonized wood.		
53				0.0		CL	-----Contact----- 52.1 to 53.9 ft bgs: GRAVELLY CLAY (CL); light grey and brown; lean clay of low plasticity; very stiff; dry.		
54				0.0		CH	53.9 to 54.5 ft bgs: FAT CLAY (CH); brown with grey and red mottle; trace fine sand; very stiff; high plasticity; dry.	6" annulus	
55				0.0			54.9 to 50 ft bgs: Not recovered.		
56	NA	NA	90%	0.0		ML/CL	55 to 60 55 to 59.3 ft. bgs: SANDY CLAYEY SILT (ML); pale grey with black mottle (1mm) with sporadic intervals of brown (10mm); nonplastic to low plasticity; very fine sand (10 to 20%); very stiff to stiff; trace micas; carbonized wood fragments (1mm) occur most readily in the clayey interval (55.6 to 56.3); moist to dry.	Hydrated bentonite chips	
57				0.0					
58				0.0					
59				0.0					
60				0.0			59.3 to 60 ft. bgs: Not recovered.		

Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected.

References: Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

		Client: PEPCO			Boring: MW-1				
		Project Number: 60287343.09							
		Site Location: 3400 Benning Road NE, Washington, DC							
		Coordinates: 448230.8' N 1323686.7' E Ground Elev: 12.88' NAVD88							
Weather: Overcast/Clear ~60's F		Logged By: GR		Start Date: 9/17/2014		Sheet: 4 of 4			
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014		Depth of Boring: 70		Well Installed: Dual Nested			
				Screen: 10-35 and 40-52		Water: 10 and 45			
Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
61	NA	NA	100%	0.0		ML	60 to 65 60 to 65 ft bgs: Same as above (ML); sporadic and increasing lean clay content; dry.	6" annulus	
62			0.0						
63			0.0						
64			0.0						
65			0.0						
66	NA	NA	100%	0.0	ML	65 to 70 65 to 70 ft bgs: Same as above. (ML); increase in carbonized wood and lignite; contains light grey concretions that are not reactive to HCl; dry.			
67				0.0					
68				0.0					
69				0.0					
70				0.0	CH	*Arundel Clay in cutting shoe. FAT CLAY (CH); variagated red and pale gray; v. stiff; dry.			
71							TD = 70 ft bgs.		
72							Terminated at regional confining layer.		
73							First observed water ~ 15 ft. bgs.		
74									
75									
76									
77									
78									
79									
80									
References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).							Soil samples not collected.		
Additional Comments									
Checked by _____		Date: _____							



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448457.0' N 1323684.7' E Ground Elev: 13.82' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-2
 Sheet: 1 of 3
 Well Installed: Dual Nested
 Screen: 8-28 and 38-53

Weather: Cloudy, 60's F Logged By: BD Start Date: 10/7/2014 Depth of Boring: 60
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/7/2014 Water: 10

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1					Asphalt	Asphalt	0 to 5 0 to 0.5 ft bgs: Asphalt	Flush pad	
2	NA	NA	NA			SW/FILL	0.5 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Strong Brown SILTY SAND, well graded sand, some well graded angular gravel, with cobbles, dry, no odor. (FILL)	Concrete	
3								Bentonite grout slurry	
4									
5									
6				0.0		SW	5 to 10 5 to 7.1 ft bgs: Strong Brown SAND, well graded, little well graded rounded gravel, loose, moist, no odor.	Well seal	
7	NA	NA	40%	0.0					
8							7.1 to 10 ft bgs: Not recovered.	8 ft.	
9									
10									
11				0.0		SW	10 to 15 10 to 12.1 ft bgs: Strong Brown SAND, well graded, little well graded rounded gravel, loose, wet, no odor.		
12	NA	NA	40%	0.0					
13							12.1 to 15 ft bgs: Not recovered.	8" annulus	
14									
15									
16				0.0		SW	15 to 20 15 to 18 ft bgs: Strong Brown SAND, well graded, some well graded rounded gravel, little silt, loose, wet, no odor.	0.01" slotted screen	
17	NA	NA	60%	0.0				#2 sand	
18								2" riser	
19							18 to 20 ft bgs: Not recovered.		
20									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by: _____ Date: _____

Client: PEPCO		Boring: MW-2
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		
Coordinates: 448457.0' N 1323684.7' E Ground Elev: 13.82' NAVD88		Sheet: 2 of 3
Drilling Method: Sonic		Well Installed: Dual Nested
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"
Weather: Cloudy, 60's F		Screen: 8-28 and 38-53
Logged By: BD		Start Date: 10/7/2014
Drilling Contractor: Summit - Danny Ninevski		Depth of Boring: 60
		Date Complete: 10/7/2014
		Water: 10

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	60%	0.0		SW	20 to 25	8" annulus	
22				20 to 22.9 ft. bgs: Strong Brown SAND, well graded, some well graded rounded gravel, loose, wet, no odor.					
23				0.0					
24				22.9 to 25 ft. bgs: Not recovered.					
25	NA	NA	80%	0.0		GW	25 to 30	0.01" slotted screen	
26				25 to 27.9 ft. bgs: Strong Brown SAND and GRAVEL, well graded sand, well graded rounded gravel, trace silt, loose, wet, no odor.					
27				0.0					
28				27.9 to 30 ft. bgs: Not recovered.					
29	NA	NA	100%	0.0		CL	30 to 35	Well seal	
30				30 to 34 ft. bgs: Light Brownish Gray CLAY, medium plasticity, medium stiff, dry, no odor.					
31				0.0					
32				34 to 35 ft. bgs: Light Brownish Gray SILT, some very fine sand, medium soft, dry, no odor.					
33	NA	NA	80%	0.0		ML	35 to 40	6" annulus	
34				35 to 37.6 ft. bgs: Light Grayish Brown SAND, fine grained, some silt, medium loose, wet, no odor.					
35				0.0					
36				37.6 to 38.4 ft. bgs: Light Grayish Brown SAND, fine to medium grained, loose, wet, no odor.					
37	NA	NA	80%	0.0		SM	38.4 to 39.1 ft. bgs: Strong Brown SAND, fine to medium grained, little silt, trace coarse sand, loose, wet, no odor.	#2 filter sand	
38				39.1 to 40 ft. bgs: Not recovered.					
39				0.0					
40				0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448457.0' N 1323684.7' E Ground Elev: 13.82' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-2

Sheet: 3 of 3
 Well Installed: Dual Nested
 Screen: 8-28 and 38-53

Weather: Cloudy, 60's F Logged By: BD Start Date: 10/7/2014 Depth of Boring: 60
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/7/2014 Water: 10

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	70%	0.0		SW	40 to 45	0.01" slotted screen	
				0.0			40 to 42 ft bgs: Pale Yellowish Brown SAND, well graded, little fine to medium subrounded gravel, loose, wet, no odor.		
42				0.0			42 to 42.5 ft bgs: Strong Brown SAND, medium grained, little fine subrounded gravel, loose, wet, no odor.		
43				0.0			42.5 to 42.7 ft bgs: Light Gray and Black laminated SAND, fine grained, medium loose, wet, no odor.		
44				0.0			42.7 to 43.5 ft bgs: Strong Brown SAND, medium grained, loose, wet, no odor.		
45							43.5 to 45 ft bgs: Not recovered.	#2 sand	
46	NA	NA	80%	0.0		SP	45 to 50	2" riser	
				0.0			45 to 47 ft bgs: Pale Brown SAND, fine to medium grained, black degraded leafy organic material at 46.5-46.6', loose, wet, no odor.		
47				0.0			47 to 48.8 ft bgs: Brownish Yellow SAND, well graded, little well graded rounded gravel, little silt, loose, wet, no odor.		
48							48.8 to 50 ft bgs: Not recovered.		
49									
50									
51	NA	NA	80%	0.0		GW	50 to 55	53 ft.	
				0.0			50 to 50.5 ft bgs: Brown SAND and GRAVEL, well graded sand, well graded subrounded gravel, with cobbles, loose, wet, no odor.		
52				0.0			50.5 to 53.2 ft bgs: Gray SAND, fine to medium grained, loose, wet, no odor.		
53				0.0			53.2 to 54 ft bgs: Dark Gray CLAY, high plasticity, very stiff, dry, no odor.		
54							54 to 55 ft bgs: Not recovered.		
55									
56	NA	NA	90%	0.0		ML	55 to 60	Hydrated bentonite chips	
				0.0			55 to 57 ft bgs: Dark Gray CLAYEY SILT, medium plasticity, stiff, dry, no odor.		
57				0.0					
58				0.0			57 to 59.3 ft bgs: Dark Gray CLAY, little silt, medium plasticity, stiff, dry, no odor.		
59									
60							59.3 to 60 ft bgs: Not recovered.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil Analytical: Soil samples not collected.
 description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.
 Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448809.4' N 1323686.3' E Ground Elev: 15.12' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-3
 Sheet: 1 of 4
 Well Installed: Dual Nested
 Screen: 10-25 and 40-50

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/10/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/10/2014 Water: 13

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1					Asphalt	SMW/FILL	0 to 5 0 to 0.5 ft bgs: Asphalt 0.5 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Dark brown SILTY SAND, well graded, little fine to coarse angular gravel, moist, no odor. (FILL)	Flush pad Concrete	
2	NA	NA	NA						
3	NA	NA	NA						
4								Bentonite grout slurry	
5									
6				0.0		SMW/FILL	5 to 10 5 to 5.2 ft bgs: Dark brown SILTY SAND, well graded, little fine to coarse angular gravel, loose, moist, no odor. (FILL)	Well seal	
7				0.0		SP	5.2 to 6.2 ft bgs: Reddish brown SAND, fine grained, little silt, medium loose, moist, no odor.		
8	NA	NA	50%	0.0		SW	6.2 to 7.7 ft bgs: Light reddish brown SAND, well graded, little fine to coarse subrounded gravel, trace silt, loose, moist, no odor. 7.7 to 10 ft bgs: Not recovered.		
9									
10									
11				0.0		SW	10 to 15 10 to 10.2 ft bgs: Light reddish brown SAND, well graded, little fine to coarse subrounded gravel, trace silt, loose, moist, no odor.		10 ft.
12	NA	NA	60%	0.0		SP	10.2 to 12.4 ft bgs: Reddish brown SAND, medium grained, little fine grained sand, trace coarse grained sand, loose, moist, no odor.		
13	NA	NA	60%	0.0		SM	12.4 to 13.0 ft bgs: Reddish brown SAND, well graded, some silt, little fine to medium rounded gravel, medium loose, moist, no odor. 13 to 15 ft bgs: Not recovered.		
14									
15									
16				0.0		SW	15 to 20 15 to 15.5 ft bgs: Pale reddish brown SAND, well graded, little fine to coarse rounded gravel, loose, wet, no odor. 15.5 to 15.7 ft bgs: Dark brown SAND, well graded, some silt, little fine to medium subrounded gravel, loose, wet, no odor.	0.01" slotted screen	
17	NA	NA	70%	0.0		SM	15.7 to 16.9 ft bgs: Reddish brown SAND, well graded, some silt, little fine to medium subrounded gravel, loose, wet, no odor.		
18	NA	NA	70%	0.0		SM	16.9 to 17.0 ft bgs: Dark gray SAND, well graded, some silt, loose, wet, no odor.		#2 sand
19				0.0		SW	17 to 17.7 ft bgs: Reddish brown SAND, well graded, some well graded rounded gravel, little silt, loose, wet, no odor.		
20				0.0		SP	17.7 to 18.6 ft bgs: Reddish brown SAND, fine to medium grained, little fine to medium rounded gravel, loose, wet, no odor. 18.6 to 20 ft bgs: Not recovered.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).
 Analytical: Soil samples not collected.
 Clean city water used during boring advancement as drilling fluid.

Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.
 Checked by: _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448809.4' N 1323686.3' E Ground Elev: 15.12' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-3

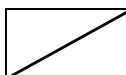
Sheet: 2 of 4
 Well Installed: Dual Nested
 Screen: 10-25 and 40-50

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/10/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/10/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	70%	0.0		GW	20 to 25 20 to 20.7 ft bgs: Reddish brown GRAVEL and SAND, well graded rounded gravel, well graded sand, loose, wet, no odor.	8" anulus #2 sand 2" riser 0.01" slotted screen 25 ft	
22				0.0		SP	20.7 to 21.8 ft bgs: Red brown SAND, fine to medium grained, little fine rounded gravel, loose, wet, no odor.		
23				0.0		GW	21.8 to 23.3 ft bgs: Red brown GRAVEL and SAND, well graded rounded gravel, well graded sand, little silt, loose, wet, no odor.		
24				0.0			23.3 to 25 ft. bgs: Not recovered.		
25	NA	NA	80%	0.0		GW	25 to 30 25 to 25.3 ft bgs: Red brown GRAVEL and SAND, well graded rounded gravel, well graded sand, little silt, loose, wet, no odor.	6" anulus	
26				0.0		CL	25.3 to 29.1 ft. bgs: Brown CLAY, trace light gray mottling, trace silt, trace medium rounded gravel, medium plasticity, medium stiff, dry, no odor.		
27				0.0			29.1 to 30 ft. bgs: Not recovered.		
28				0.0					
29	NA	NA	90%	0.0		CL	30 to 35 30 to 34.6 ft. bgs: Brown CLAY, little silt, trace fine sand, medium plasticity, medium stiff, dry, no odor.	Well seal	
30				0.0			34.6 to 35 ft. bgs: Not recovered.		
31				0.0					
32				0.0					
33	NA	NA	100%	0.0		ML	35 to 40 35 to 38.3 ft. bgs: Brown SANDY SILT, fine grained sand, trace clay, low plasticity, trace fine subangular gravel, medium stiff, moist, no odor.	30 ft	
34				0.0		CH	38.3 to 40 ft. bgs: Brown CLAY, trace light gray mottling, trace silt, high plasticity, stiff, dry, no odor.		
35				0.0					
36				0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448809.4' N 1323686.3' E Ground Elev: 15.12' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-3

Sheet: 3 of 4
 Well Installed: Dual Nested
 Screen: 10-25 and 40-50

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/10/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/10/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	70%	0.0		SM	40 to 45 40 to 42.7 ft bgs: Red brown SAND, fine grained, some silt, loose, wet, no odor.	40 ft 6" annulus #2 sand 0.01" slotted screen	
42				0.0		SP	42.7 to 43.7 ft bgs: Dark reddish brown SAND, fine to medium grained, little silt, medium loose, wet, no odor.		
43				0.0			43.7 to 45 ft bgs: Not recovered.		
44				0.0					
45	NA	NA	70%	0.0		SP	45 to 50 45 to 46.1 ft bgs: Pale brown SAND, fine grained, little silt, trace clay, medium loose, wet, no odor.	50 ft	
46				0.0		SP	46.1 to 48.5 ft bgs: Pale brown SAND, fine to medium grained, little fine to medium subrounded gravel, loose, wet, no odor.		
47				0.0			48.5 to 50 ft bgs: Not recovered.		
48				0.0					
49	NA	NA	90%	0.0		ML	50 to 55 50 to 54.7 ft bgs: Gray SILT, trace clay, low plasticity, stiff, moist, no odor.	Hydrated bentonite chips	
50				0.0			54.7 to 55 ft bgs: Not recovered.		
51				0.0					
52				0.0					
53	NA	NA	100%	0.0		ML	55 to 60 55 to 60 ft bgs: Gray SILT, little fine sand, trace clay, low plasticity, stiff, moist, no odor.		
54				0.0					
55				0.0					
56				0.0					
57									
58									
59									
60									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.
 Checked by _____ Date: _____

Client: PEPCO		Boring: MW-3
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 4 of 4
Coordinates: 448809.4' N 1323686.3' E Ground Elev: 15.12' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Screen: 10-25 and 40-50
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6" / 8"
Weather: Cloudy, 60's F		Logged By: BD
Drilling Contractor: Summit - Danny Ninevski		Start Date: 10/10/2014
		Date Complete: 10/10/2014
		Depth of Boring: 65
		Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
61	NA	NA	90%	0.0		ML	60 to 65 60 to 63.4 ft. bgs: Gray SILT, little fine sand, little clay, medium plasticity, very stiff, dry, no odor.	6" annulus Well seal	
62				0.0		CH	63.4 to 64.3 ft. bgs: Red and Gray mottle CLAY, high plasticity, very stiff, dry, no odor. (Arundel Clay)		
63				0.0			64.3 to 65 ft bgs: Not recovered.		
64				0.0					
65				0.0					
66							TD = 65 ft bgs.	TD = 65 ft bgs.	
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-4
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 449128.2' N 1323723.8' E Ground Elev: 14.89' NAVD88		
Drilling Method: Sonic		Sheet: 1 of 3	
Sample Type(s): 4" Open Drive Core		Well Installed: Dual Nested	
Boring Diameter: 6"/8"		Screen: 6-26 and 34-44	

Weather: Overcast/Clear ~60's F	Logged By: GR	Start Date: 4/24/2014	Depth of Boring: 55
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014	Water: 10 and 45

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1	NA	NA	NA			SM/FILL	0 to 5 Unimproved surface/Gravel. 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be SILTY SAND FILL		
2							*Unsure of fill depth. Estimate based on stratigraphy, site history, and depth of subfloor in nearby building.		
3									
4									
5									
6	NA	NA	40%	0.3 0.3 0.1 0.0		SM/FILL	5 to 10 .5 to 7 ft. bgs: SILTY SAND with GRAVEL (SM); yellowish reddish brown; fine sand (75%); some gravel; some nonplastic fines (15-20%); loose; moist - infiltration or drilling fluid. (FILL) *sheen noted on drilling fluid in mud tub.	6 ft.	
7							7 to 10 ft. bgs: Not recovered.		
8									
9									
10	NA	NA	60%	0.0 0.0 0.0 0.0		SM/FILL	10 to 15 10 to 13 ft. bgs: Same as Above. (SM - FILL) saturated.	0.01" slotted screen	
11							13 to 15 ft bgs: Not recovered.		
12									
13	NA	NA	70%	0.0 0.0 0.0 0.0		GM	15 to 20 15 to 18.5 ft. bgs: SAND and GRAVEL (GM); yellowish reddish brown; gravel (up to 3"), subround, crystalline, multicolor; coarse to fine sand, subround, arkosic; few nonplastic fines; micaceous; very loose; well graded; uncemented; oxidized; saturated.	#2 sand	
14									
15						GM	18.5 to 20 ft. bgs: Not recovered.		
16									
17									
18									
19									
20									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).	Analytical: Soil samples not collected.
Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.	Clean city water used during boring advancement as drilling fluid.
Checked by: _____ Date: _____	

	Client: PEPCO	Boring: MW-4
	Project Number: 60287343.09	
	Site Location: 3400 Benning Road NE, Washington, DC	
	Coordinates: 449128.2' N 1323723.8' E Ground Elev: 14.89' NAVD88	
Drilling Method: Sonic	Well Installed: Dual Nested	
Sample Type(s): 4" Open Drive Core	Boring Diameter: 6"/8"	Screen: 6-26 and 34-44

Weather: Overcast/Clear ~60's F	Logged By: GR	Start Date: 4/24/2014	Depth of Boring: 55
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014	Water: 10 and 45

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	50%	0.0		GM	20 to 25	0.01" slotted screen	
22				0.0		20 to 22.5 ft bgs: Same as above (GM); gravel content and size increasing; contains cobbles; saturated.			
23				0.0		22.5 to 25 ft. bgs: Not recovered.			
24	NA	NA	100%	0.0		GW	25 to 30	2" riser	
25				0.0		25 to 26.3 ft. bgs: Same as above (GM); saturated.			
26				0.0		-----sharp contact-----			
27	NA	NA	100%	0.0		CH	26.3 to 30 ft. bgs: FAT CLAY (CH); dark grey; trace very fine sand, lenticular; high plasticity; very stiff; sporadic black organic fragments (lignite and unaltered wood); dry.	8" annulus	
28				0.0					
29				0.0					
30	NA	NA	100%	0.0		CH	30 to 35	26 ft.	
31				0.0		30 to 35 ft. bgs: Same as Above. (CH); dry.			
32				0.0		*top 2 feet stuck in core barrel and the bottom 3 feet broke the sample recovery bag.			
33	NA	NA	100%	0.0		SC/CL	35 to 40	32 ft.	
34				0.0					
35				0.0		*bottom 6" of core becomes sandy, fine and very fine sand.			
36	NA	NA	100%	0.0		SC/CL	35 to 40	34 ft.	
37				0.0		35 to 40 ft. bgs: CLAYEY SAND and some SANDY CLAY (SC/CL); pale grey and grey with scattered black mottle (up to 1mm); fine and very fine sand (70-80%); few plastic fines; well sorted; medium dense; homogeneous and stratified (up to 6" intervals of sandy clay); sporadic fragments of carbonized wood and lignite; medium plasticity; saturated.			
38				0.0					
39	NA	NA	100%	0.0		SC/CL		6" annulus	
40				0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.
 Checked by _____ Date: _____

	Client: PEPCO	Boring: MW-4
	Project Number: 60287343.09	
	Site Location: 3400 Benning Road NE, Washington, DC	
	Coordinates: 449128.2' N 1323723.8' E Ground Elev: 14.89' NAVD88	
Drilling Method: Sonic	Well Installed: Dual Nested	
Sample Type(s): 4" Open Drive Core	Boring Diameter: 6"/8"	Screen: 6-26 and 34-44

Weather: Overcast/Clear ~60's F	Logged By: GR	Start Date: 4/24/2014	Depth of Boring: 55
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014	Water: 10 and 45

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	100%	0.0		CL	40 to 45 40 to 45 ft bgs: SANDY CLAY (CL); grey with scattered black mottling; clay proportions increase with depth; fine and very fine sand (15-20%) at top; very stiff; low to medium plasticity; intervals (up to 2") of black organic debris; including carbonized and unaltered wood and lignite; dry.		
42				0.0		CL	45 to 50 45 to 50 ft. bgs: Same as above. (CL); scattered sandy intervals with up to 20% coarse grained material; dry.		
43				0.0		CL			
44				0.0		CL			
45	NA	NA	100%	0.0		CL	45 to 50 45 to 50 ft. bgs: Same as above. (CL); scattered sandy intervals with up to 20% coarse grained material; dry.		
46				0.0		CL	50 to 55 50 to 55 ft. bgs: SILTY SANDY CLAY (CL); grey; very fine sand (15%); medium to high plasticity; very stiff; fragments of carbonized organics; dry.		
47				0.0		CL			
48				0.0		CL			
49	NA	NA	100%	0.0		CL	50 to 55 50 to 55 ft. bgs: SILTY SANDY CLAY (CL); grey; very fine sand (15%); medium to high plasticity; very stiff; fragments of carbonized organics; dry.		
50				0.0		CL	TD = 55 ft.		
51				0.0		CL			
52				0.0		CL			
53	NA	NA	100%	0.0		CL			
54				0.0		CL			
55				0.0		CL			
56				0.0		CL			
57									
58									
59									
60									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

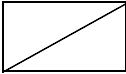


Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448172.2' N 1324032.0' E Ground Elev: 20.61' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-5
 Sheet: 1 of 4
 Well Installed: Dual Nested
 Screen: 10-20 and 43-58

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/6/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/6/2014 Water: 15

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1					Asphalt	SM/FILL	0 to 5 0 to 0.5 ft bgs: Asphalt 0.5 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Brown SILTY SAND, well graded, little well graded angular gravel, moist, no odor. (FILL)	Flush pad Concrete	
2	NA	NA	NA						
3									
4									
5									
6				0.0		SM	5 to 10 5 to 5.7 ft bgs: Brown SILTY SAND, well graded, little well graded angular gravel, m. loose, moist, no odor. (FILL)	Bentonite grout slurry	
7	NA	NA	50%	0.0		SP	5.7 to 7.5 ft bgs: Reddish Brown SAND, fine grained, little silt, medium loose, moist, no odor.	Well seal	
8				0.0			7.5 to 10 ft. bgs: Not recovered.		
9									
10									
11				0.0		GM	10 to 15 10 to 10.2 ft bgs: Reddish Brown GRAVEL, well graded, angular, some well graded sand, some silt, loose, moist, no odor.	10 ft.	
12	NA	NA	50%	0.0		GP	10.2 to 10.9 ft. bgs: Reddish Brown SAND, fine grained, loose, moist, no odor.	8" annulus	
13				0.0		SP	10.9 to 11.1 ft bgs: Reddish brown GRAVEL and SAND, fine to medium grained angular gravel, well graded sand, little silt, loose, moist, no odor.		
14							11.1 to 12.5 ft bgs: Reddish brown SAND, fine grained, little fine angular gravel, loose, dry, no odor.		
15							12.5 to 15 ft bgs: Not recovered.		
16				0.0		SP	15 to 20 15 to 18.1 ft. bgs: Reddish brown SAND, fine to medium grained, little fine to medium grained rounded gravel, trace coarse sand, loose, wet, no odor.	#2 sand	
17	NA	NA	60%	0.0				0.01" slotted screen	
18									
19							18.1 to 20 ft. bgs: Not recovered.		
20									20 ft.

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).
 Analytical: Soil samples not collected.
 Additional Comments:  Graphic symbol codes: "Other" - Open drive core barrel.
 Clean city water used during boring advancement as drilling fluid.
 Checked by: _____ Date: _____

Client: PEPCO		Boring: MW-5
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 2 of 4
Coordinates: 448172.2' N 1324032.0' E Ground Elev: 20.61' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Screen: 10-20 and 43-58
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6" / 8"
Weather: Partly cloudy, 60's F		Logged By: BD
Drilling Contractor: Summit - Danny Ninevski		Start Date: 10/6/2014
		Date Complete: 10/6/2014
		Depth of Boring: 65
		Water: 15

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	95%	0.0		CH	20 to 25	Well seal	
22				0.0			20 to 23.5 ft bgs: Gray CLAY, high plasticity, stiff, dry, no odor.		
23				0.0					
24				0.0			23.5 to 24.6 ft bgs: Reddish brown SILTY SAND, fine grained, little fine rounded gravel, medium loose, wet, no odor.		
25				0.0			24.6 to 25 ft. bgs: Not recovered.		
26	NA	NA	70%	0.0		SW	25 to 30	6" annulus	
27				0.0			25 to 26.1 ft bgs: Light reddish brown SAND, well graded, some fine to medium rounded gravel, loose, wet, no odor.		
28				0.0			26.1 to 26.2 ft. bgs: Dark reddish gray SAND, well graded, some fine rounded gravel, loose, wet, no odor.		
29				0.0			26.2 to 28.6 ft. bgs: Reddish yellow fine to medium SAND, some well graded rounded gravel, trace silt, loose, wet, no odor.		
30				0.0			28.6 to 30 ft. bgs: Not recovered.		
31	NA	NA	95%	0.0		CL	30 to 35	2" riser	
32				0.0			30 to 33.5 ft. bgs: Gray CLAY, little silt, trace organics, medium plasticity, dry, stiff, slight organic odor.		
33				0.0			33.5 to 34 ft. bgs: Gray SILTY SAND, fine grained, little clay, trace organics, low plasticity, medium loose, wet, no odor.		
34				0.0			34 to 34.8 ft. bgs: Gray CLAYEY SAND, fine grained, some silt, trace fine angular gravel, low plasticity, medium loose, moist, no odor.		
35				0.0			34.8 to 35 ft. bgs: Not recovered.		
36	NA	NA	90%	0.0		Wood	35 to 40		
37				0.0			35 to 35.2 ft. bgs: Very dark reddish brown degraded WOOD FRAGMENTS, medium dense, wet, no odor.		
38				0.0			35.2 to 36.1 ft. bgs: Light brown SAND, medium grained, trace silt, trace fine sand, trace coarse sand, loose, wet, no odor.		
39				0.0			36.1 to 36.3 ft. bgs: Very dark reddish brown degraded WOOD FRAGMENTS, medium dense, wet, no odor.		
40				0.0			36.3 to 39.3 ft. bgs: Light brownish gray SILTY CLAY, trace fine sand, low plasticity, moist, soft, no odor.		
							39.3 to 40 ft. bgs: Not recovered.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448172.2' N 1324032.0' E Ground Elev: 20.61' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-5

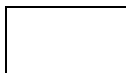
Sheet: 3 of 4
 Well Installed: Dual Nested
 Screen: 10-20 and 43-58

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/6/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/6/2014 Water: 15

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	60%	0.0		ML	40 to 45	43 ft.	
42				0.0			40 to 42.4 ft bgs: Light gray CLAYEY SILT, little fine sand, wet, soft, no odor.		
43				0.0			42.4 to 43.2 ft. bgs: Light gray SILTY SAND, fine grained, medium loose, wet, no odor.		
44				0.0			43.2 to 45 ft. bgs: Not recovered.		
45	NA	NA	70%	0.0		CL	45 to 50	0.01" slotted screen	
46				0.0			45 to 45.2 ft. bgs: Light gray SILTY CLAY, low plasticity, soft, moist, no odor.		
47				0.0			45.2 to 48.6 ft. bgs: Light brownish gray SILTY SAND, fine grained, some laminated leafy organics at 42.2-43.4', trace clay, low plasticity, medium loose, wet, no odor.		
48				0.0			48.6 to 50 ft. bgs: Not recovered.		
49	NA	NA	70%	0.0		SM	50 to 55	6" annulus	
50				0.0			50 to 51.6 ft. bgs: Light brownish gray SILTY SAND, trace clay, low plasticity, medium loose, wet, no odor.		
51				0.0			51.6 to 53.5 ft. bgs: Light brown SAND, fine to medium grained, trace fine rounded gravel, loose, wet, no odor.		
52				0.0			53.5 to 53.7 ft. bgs: Light brown SANDY GRAVEL, well graded sand, fine to medium rounded gravel, loose, wet, no odor.		
53	NA	NA	80%	0.0		GP	53.7 to 55 ft. bgs: Not recovered.	58 ft.	
54				0.0			55 to 60		
55				0.0			55 to 57.1 ft. bgs: Light brownish gray SAND, fine to medium grained, some fine to medium rounded gravel, loose, wet, no odor.		
56				0.0			57.1 to 57.3 ft. bgs: Gray SAND, fine to medium grained, some leafy organics, loose, wet, no odor.		
57	NA	NA	80%	0.0		SP	57.3 to 59.2 ft. bgs: Light gray CLAY, trace black wood fragments, high plasticity, stiff, dry, no odor.	Hydrated bentonite chips	
58				0.0			59.2 to 60 ft. bgs: Not recovered.		
59				0.0					
60				0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments



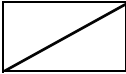
Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

Client: PEPCO		Boring: MW-5
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 4 of 4
Coordinates: 448172.2' N 1324032.0' E Ground Elev: 20.61' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Screen: 10-20 and 43-58
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"
Weather: Partly cloudy, 60's F		Logged By: BD
Drilling Contractor: Summit - Danny Ninevski		Start Date: 10/6/2014
		Date Complete: 10/6/2014
		Depth of Boring: 65
		Water: 15

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
61	NA	NA	100%	0.0		SP	60 to 65	6" annulus →	
				0.0			60 to 65 ft. bgs: Gray SAND, fine grained, trace organics (wood fragments), dense, wet, no odor.		
62				0.0					
63				0.0					
64				0.0					
65								Well seal →	
66							TD = 65 ft. bgs.		TD = 65 ft. bgs.
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments:  Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

AECOM	Client: PEPCO		Boring: MW-6
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448553.9' N 1324211.3' E Ground Elev: 24.87' NAVD88		
	Sheet: 1 of 3		
Drilling Method: Sonic		Well Installed: Dual Nested	
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	
Screen: 8-28 and 41-56		Weather: Partly cloudy, 70's F	
Logged By: BD		Start Date: 4/25/2014	
Depth of Boring: 60		Drilling Contractor: Cascade - Denzel Roberts	
Date Complete: 5/2/2014		Water: 15	

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1	NA	NA	NA	0.0	GP/FILL	0 to 5	0 to 0.5 ft bgs: White GRAVEL, fine to medium grained, angular, some fine to coarse sand, some silt, dry, no odor. (Crushed concrete fill)	Flush pad	Concrete
2				0.0	Concrete	0.5 to 1.2 ft bgs: Concrete (FILL)	Concrete		
3				0.0	Brick	1.2 to 1.5 ft bgs: Brick (FILL)			
4				0.0	GM/FILL	1.5 to 2.5 ft bgs: Brown SILT and COBBLES, dry, no odor. (FILL)			
5				0.0	SM/FILL	2.5 to 5 ft bgs: Dark brown SILTY SAND, fine grained, dry, no odor. (FILL)	Bentonite grout slurry		
6	NA	NA	100%	0.6	SP	5 to 10	5 to 12 ft. bgs: Reddish brown SAND, fine to medium grained, little fine to medium rounded gravel, moist, loose, no odor.	Well seal	8 ft.
7				1.4					
8				1.2					
9				1.3					
10				0.7					
11	NA	NA	100%	0.3	SP	10 to 15	10 to 12 ft. bgs: Reddish brown SAND, fine to medium grained, little fine to medium rounded gravel, moist, loose, no odor.	0.01" slotted screen	
12				1.5					
13				0.9	SW	12 to 15 ft. bgs: Reddish brown SAND, fine to coarse grained, little fine to coarse rounded gravel, moist, loose, no odor.			
14				1.2					
15				1.3					
16	NA	NA	100%	0.8	SP	15 to 20	15 to 17 ft. bgs: Reddish brown SAND, fine to coarse grained, little fine to coarse rounded gravel, wet, loose, no odor.	#2 sand	
17				1.1					
18				1.0	CL	17 to 20 ft. bgs: Brown SILTY CLAY, medium plasticity, medium stiff, wet, no odor.			
19				0.7					
20				0.5					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Analytical: Soil samples not collected.

Additional Comments: Clean city water used during boring advancement as drilling fluid.

Graphic symbol codes: "Other" - Open drive core barrel.

Checked by: _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448553.9' N 1324211.3' E Ground Elev: 24.87' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-6

Sheet: 2 of 3

Well Installed: Dual Nested

Screen: 8-28 and 41-56

Weather: Partly cloudy, 70's F

Logged By: BD

Start Date: 4/25/2014

Depth of Boring: 60

Drilling Contractor: Cascade - Denzel Roberts

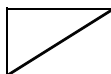
Date Complete: 5/2/2014

Water: 15

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	100%	0.4		SW	20 to 25 20 to 23.5 ft bgs: Brown SAND, well graded, little fine to medium rounded gravel, wet, loose, no odor.		
22	NA	NA	100%	0.2					
23	NA	NA	100%	0.2					
24	NA	NA	100%	0.2		GP	23.5 to 24.5 ft bgs: Brown GRAVEL, fine to medium grained, rounded, little well graded sand, wet, loose, no odor.		
25	NA	NA	100%	0.3		SP	24.5 to 25 ft bgs: Brown SAND, medium grained, little fine rounded gravel, wet, loose, no odor.		
26	NA	NA	100%	0.0		GW	25 to 30 25 to 28 ft bgs: Brown GRAVEL, well graded, rounded, little well graded sand, loose, wet, no odor.		
27	NA	NA	100%	0.0					
28	NA	NA	100%	0.0					
29	NA	NA	100%	0.0		CH	28 to 30 ft bgs: Gray CLAY, trace organics, high plasticity, moist, stiff, no odor.		
30	NA	NA	100%	0.0					
31	NA	NA	100%	0.0		CH	30 to 35 30 to 31 ft bgs: Gray CLAY, trace organics, high plasticity, moist, stiff, no odor.		
32	NA	NA	100%	0.0		ML	31 to 35 ft bgs: Gray SILT, trace organics, graded to fine sand at 34 ft., soft, wet, no odor.		
33	NA	NA	100%	0.0					
34	NA	NA	100%	0.0					
35	NA	NA	100%	0.0					
36	NA	NA	100%	0.0		SP	35 to 40 35 to 36 ft. bgs: Gray fine SAND, loose, wet, no odor.		
37	NA	NA	100%	0.0		MH	36 to 38 ft. bgs: Gray fine CLAYEY SILT, soft, wet, no odor.		
38	NA	NA	100%	0.0		SM	38 to 39 ft. bgs: Gray fine SILTY SAND, loose, wet, no odor.		
39	NA	NA	100%	0.0		CL	39 to 40 ft. bgs: Gray fine SILTY CLAY, soft, wet, no odor.		
40	NA	NA	100%	0.0					

Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected.
 References: Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448553.9' N 1324211.3' E Ground Elev: 24.87' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-6
 Sheet: 3 of 3
 Well Installed: Dual Nested
 Screen: 8-28 and 41-56
 Depth of Boring: 60
 Water: 15

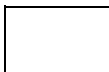
Weather: Partly cloudy, 70's F
 Drilling Contractor: Cascade - Denzel Roberts

Logged By: BD
 Start Date: 4/25/2014
 Date Complete: 5/2/2014

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	100%	0.0	[Hatched pattern]	CL	40 to 45 40 to 41 ft. bgs: Gray fine SILTY CLAY, soft, wet, no odor.	41 ft. →	[Well completion diagram]
42	NA	NA	100%	0.0	[Dotted pattern]	SP	41 to 43 ft. bgs: Gray SAND, fine grained, loose, wet, no odor.		
43	NA	NA	100%	0.0	[Cross-hatched pattern]	WOOD	43 to 44.5 ft. bgs: Black WOOD, degraded, wet, dense, no odor.		
44	NA	NA	100%	0.0	[Dotted pattern]	SP	44.5 to 45 ft. bgs: Gray SAND, fine grained, wet, loose, no odor.		
45	NA	NA	100%	0.0	[Dotted pattern]	SP	45 to 50 45 to 50 ft. bgs: Brown SAND, well graded, trace fine to medium rounded gravel, wet, loose, no odor.	#2 sand →	0.01" slotted screen →
46	NA	NA	100%	0.0	[Dotted pattern]	SW			
47	NA	NA	100%	0.0	[Dotted pattern]	SW			
48	NA	NA	100%	0.0	[Dotted pattern]	SW			
49	NA	NA	100%	0.0	[Dotted pattern]	SW			
50	NA	NA	100%	0.0	[Dotted pattern]	SW			
51	NA	NA	100%	0.0	[Vertical line pattern]	ML	50 to 55 50 to 54 ft. bgs: Gray SILT, stiff, wet, no odor.	6" annulus →	[Well completion diagram]
52	NA	NA	100%	0.0	[Vertical line pattern]	ML			
53	NA	NA	100%	0.0	[Vertical line pattern]	ML			
54	NA	NA	100%	0.0	[Vertical line pattern]	ML			
55	NA	NA	100%	0.0	[Dotted pattern]	SP	54 to 55 ft. bgs: Gray SAND, medium grained, little coarse sand, wet, loose, no odor.		
56	NA	NA	100%	0.0	[Vertical line pattern]	ML	55 to 60 55 to 57 ft. bgs: Gray fine SANDY SILT, dense, wet, no odor.	56 ft. →	Hydrated bentonite chips →
57	NA	NA	100%	0.0	[Vertical line pattern]	ML			
58	NA	NA	100%	0.0	[Hatched pattern]	CL	57 to 60 ft. bgs: Gray SILTY CLAY, very stiff, moist, no odor.		
59	NA	NA	100%	0.0	[Hatched pattern]	CL			
60	NA	NA	100%	0.0	[Hatched pattern]	CL			

Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected.
 References: Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____




Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448860.4' N 1324287.5' E Ground Elev: 19.09' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-7
 Sheet: 1 of 4
 Well Installed: Dual Nested
 Screen: 8-28 and 36-51

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/14/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/14/2014 Water: 13

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1							0 to 5 Unimproved surface. 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Brown SILTY SAND, some coarse to fine Gravel, angular; little fill material (brick, asphalt); moist; slight hydrocarbon odor. (FILL)	Flush pad Concrete	
2	NA	NA	NA						
3									
4								Bentonite grout slurry	
5									
6				0.0		SM/FILL	5 to 10 5 to 7.6 ft. bgs: SILTY SAND (SM); brown; some coarse to fine Gravel, angular; little fill material (brick, asphalt); dense; moist; slight hydrocarbon odor. (FILL)	Well seal	
7	NA	NA	50%	0.0					
8							7.6 to 10 ft. bgs: Not recovered.		8 ft.
9									
10									
11				0.0		GM/FILL	10 to 15 10 to 11.9 ft. bgs: Silty GRAVEL; brown and gray; coarse to fine gravel, angular, some coarse to fine sand, trace clay, low plasticity, with cobbles, little fill material, moist, loose, slight hydrocarbon odor.		
12	NA	NA	40%	0.0					
13							11.9 to 15 ft. bgs: Not recovered.		
14									
15									
16				0.0		CL	15 to 20 15 to 15.9 ft. bgs: Silty CLAY, grayish brown, low plasticity, soft, moist, no odor.	0.01" slotted screen	
17	NA	NA	20%	0.0			15.9 to 20 ft. bgs: Not recovered.		#2 sand
18									
19									
20									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments:  Graphic symbol codes: "Other" - Open drive core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by: _____ Date: _____

Client: PEPCO		Boring: MW-7
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 2 of 4
Coordinates: 448860.4' N 1324287.5' E Ground Elev: 19.09' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Screen: 8-28 and 36-51
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"
Weather: Partly cloudy, 60's F		Logged By: BD
Drilling Contractor: Summit - Danny Ninevski		Start Date: 10/14/2014
		Date Complete: 10/14/2014
		Depth of Boring: 65
		Water: 13

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	20%	0.0		SM	20 to 25		
22				20 to 21.1 ft bgs: Fine silty SAND, dark brown, medium loose, wet, no odor.					
23				21.1 to 25 ft. bgs: Not recovered.					
24	NA	NA	0%	0.0		SM	25 to 30		
26				25 to 30 ft. bgs: Not recovered.					
27				25 to 30 ft. bgs: Not recovered.					
28	NA	NA	0%	0.0		SM	30 to 35		
31				30 to 35 ft. bgs: Not recovered.					
32				30 to 35 ft. bgs: Not recovered.					
33	NA	NA	10%	0.0		CL	35 to 40		
36				35 to 35.6 ft. bgs: CLAY, gray, medium plasticity, medium soft, dry, no odor.					
37				35.6 to 40 ft. bgs: Not recovered.					
38	NA	NA	10%	0.0		CL	35 to 40		
39				35 to 40 ft. bgs: Not recovered.					
40				35 to 40 ft. bgs: Not recovered.					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

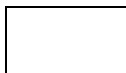


Client: PEPCO		Boring: MW-7
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		
Coordinates: 448860.4' N 1324287.5' E Ground Elev: 19.09' NAVD88		Sheet: 3 of 4
Drilling Method: Sonic		Well Installed: Dual Nested
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8" Screen: 8-28 and 36-51
Weather: Partly cloudy, 60's F		Logged By: BD Start Date: 10/14/2014 Depth of Boring: 65
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 10/14/2014 Water: 13

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	20%	0.0		CL	40 to 45		
				0.0			40 to 41 ft bgs: CLAY, gray, little silt, medium plasticity, medium soft, moist, no odor.		
42							41 to 45 ft. bgs: Not recovered.		
43									
44									
45	NA	NA	70%	0.0		CL	45 to 50		
46				0.0			45 to 46.5 ft. bgs: CLAY, gray, little silt, medium plasticity, medium soft, moist, no odor.		
47				0.0		SP	46.5 to 48.7 ft. bgs: SAND, light brown, medium grain, little coarse sand, trace fine gravel, sub-rounded, cobble at 46.5'-46.7', loose, wet, no odor.		
48				0.0			48.7 to 50 ft. bgs: Not recovered.		
49									
50									
51	NA	NA	80%	0.0		SP	50 to 55		
				0.0		SM	50.2 to 50.3 ft. bgs: Silty SAND, reddish brown, coarse to fine grain, little fine gravel, rounded, medium dense, wet, no odor.		
52				0.0		SP	50.3 to 51.1 ft. bgs: SAND, gray, very fine grained, dense, moist, no odor.		
53				0.0		CL	51.1 to 54.1 ft. bgs: CLAY, gray, little silt, medium plasticity, stiff, dry, no odor.		
54				0.0			54.1 to 55 ft. bgs: Not recovered.		
55									
56	NA	NA	90%	0.0		SM	55 to 60		
				0.0			55 to 58.3 ft. bgs: Silty SAND, gray, very fine grained, trace clay, non-plastic, dense, dry, no odor.		
57				0.0					
58				0.0					
59						SP	58.3 to 59.6 ft. bgs: SAND, gray, fine grained, little medium sand seams, moist to wet, dense, no odor.		
60							59.6 to 60 ft. bgs: Not recovered.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448860.4' N 1324287.5' E Ground Elev: 19.09' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-7

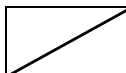
Sheet: 4 of 4
 Well Installed: Dual Nested
 Screen: 8-28 and 36-51

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/14/2014
 Drilling Contractor: Summit - Danny Ninevski
 Date Complete: 10/14/2014

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
61	NA	NA	100%	0.0		SP ML SP ML	60 to 65 ft. bgs: SAND, gray, fine grained, medium dense, wet, no odor.	6" anulus → Well seal →	
				0.0			60 to 60.2 ft. bgs: SAND, gray, fine grained, medium dense, wet, no odor.		
				0.0			60.2 to 61.5 ft. bgs: Clayey SILT, gray, medium plasticity, stiff, dry, no odor.		
62				0.0			61.5 to 62 ft. bgs: SAND, gray, fine grained, medium dense, wet, no odor.		
63				0.0			62 to 65 ft. bgs: Clayey SILT, gray, medium plasticity, stiff, dry, no odor.		
64				0.0					
65				0.0					
66							TD = 65 ft bgs.	TD = 65 ft bgs.	
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-8
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 449146.9' N 1324070.2' E Ground Elev: 17.12' NAVD88		
Drilling Method: Sonic		Sheet: 1 of 4	
Sample Type(s): 4" Open Drive Core		Well Installed: Dual Nested	
Boring Diameter: 6" / 8"		Screen: 10-25 and 50-60	
Weather: Rain ~60's F		Logged By: GR	Start Date: 9/25/2014
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014	Depth of Boring: 65
			Water: 12 and 51

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1	NA	NA	NA			SM/FILL	0 to 5 ft. Unimproved surface. 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be SILTY SAND FILL	Flush pad Concrete	
2	NA	NA	NA					Bentonite grout slurry	
3	NA	NA	NA						
4	NA	NA	NA						
5	NA	NA	NA						
6	NA	NA	80%	0.0		SC/SM FILL	5 to 10 ft. 5 to 6.2 ft. bgs: SILTY CLAYEY SAND (SC/SM); brown and strong brown with orangish stain; fine sand (); nonplastic fines (up to 30%); few gravel (up to 1"); angular; medium loose; oxidized; wet (FILL) ----contact-----	6 ft	
7	NA	NA	80%	0.0		SP	6.2 to 7.8 ft. bgs.: Well sorted SAND with SILT (SP); orangish light brown; fine sand (80%); nonplastic fines, oxidized; very loose; dry.	Well Seal	
8	NA	NA	80%	0.0		SM	7.8 to 9 ft. bgs.: SILTY SAND and GRAVEL (SM); orangish light brown; coarse to fine sand (75%), angular; coarse to fine gravel (30%), angular, quartzose; nonplastic oxidized fines; loose; dry.	8 ft	
9	NA	NA	80%	0.0			*immiscible liquid in mud tub. Black and grey with slight opalescence.		
10	NA	NA	80%	0.0			9 to 10 ft. bgs: Not recovered.	10 ft.	
11	NA	NA	40%	0.0		SM/FILL	10 to 15 ft. 10 to 10.8 ft. bgs: Same as Above (SM); gravel content increases; very loose; grades to....		
12	NA	NA	40%	0.0		SP	10.8 to 12 ft. bgs: Poorly graded SAND (SP); orangish red; fine sand, angular; nonplastic fines (5-15%); oxidized; micaceous; very loose; moist.		
13	NA	NA	40%	0.0			bottom 4" grades into oxidized fine SILTY SAND and GRAVEL.		
14	NA	NA	40%	0.0			12 to 15 ft. bgs: Not recovered.	0.01" slotted screen	
15	NA	NA	60%	0.0		SM	15 to 20 ft. 15 to 16.8 ft. bgs: Well graded SILTY SAND and GRAVEL (SM); brown; coarse to fine sand, angular and subangular, arkosic; gravel (up to 3"); quartzose; oxidized nonplastic fines; micaceous; very loose; saturated.		
16	NA	NA	60%	0.0		CL	16.8 to 17.2 ft. bgs: SANDY CLAY (CL); orangish light brown; very fine sand with trace coarse sand and fine gravel; low plasticity; soft to medium stiff; saturated.	#2 sand	
17	NA	NA	60%	0.0		SP	17.2 to 18 ft. bgs: Poorly graded SAND with SILT (SP); yellowish orangish brown; fine sand (70-80%); nonplastic fines; trace clay; oxidized; very soft; saturated.	8" annulus	
18	NA	NA	60%	0.0			18 to 20 ft. bgs: Not recovered.		
19	NA	NA	60%	0.0					
20	NA	NA	60%	0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).	Analytical: Soil samples not collected.
	Clean city water used during boring advancement as drilling fluid. PID malfunctioning.
Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.	
Checked by: _____ Date: _____	

	Client: PEPCO		Boring: MW-8
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 449146.9' N 1324070.2' E Ground Elev: 17.12' NAVD88		
Drilling Method: Sonic		Well Installed: Dual Nested	
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	Screen: 10-25 and 50-60
Weather: Rain ~60's F		Logged By: GR	Start Date: 9/25/2014
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/25/2014	Depth of Boring: 65
			Water: 12 and 51

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	60%			SP	20 to 25 20 to 20.7 ft bgs: Same as above (SP); saturated.		
22	NA	NA	60%			GM	20.7 to 23 ft bgs: SILTY SANDY GRAVEL (GM); orangish light brown; coarse to fine gravel, angular to subround; quartzose, multicolor; fine sand; nonplastic fines (>15%); scattered cobbles up to 4"; very loose; well graded; micaceous; saturated.		
23	NA	NA	60%				23 to 25 ft. bgs: Not recovered.		
24	NA	NA	60%						
25	NA	NA	60%						
26	NA	NA	100%			CL	25 to 30 25 to 30 ft. bgs: SANDY CLAY (CL); grey; scattered black mottling (1mm); ; fine sand (less than 20%); low plasticity; very stiff; dry.		
27	NA	NA	100%						
28	NA	NA	100%						
29	NA	NA	100%						
30	NA	NA	100%			CL	30 to 35 30 to 35 ft. bgs: Same as Above. (CL); notable absence of lignite or carbonized material; dry.		
31	NA	NA	100%						
32	NA	NA	100%						
33	NA	NA	100%						
34	NA	NA	100%						
35	NA	NA	100%			CL	35 to 40 35 to 40 ft. bgs: Same as above (CL); grey and scattered black staining; orgaincs (carbonized wood and lignite) range in size from 1 mm fragments to 5 inch thick intervals; dry.		
36	NA	NA	100%			CI	35 to 40 35 to 40 ft. bgs: Same as above (CL); grey and scattered black staining; orgaincs (carbonized wood and lignite) range in size from 1 mm fragments to 5 inch thick intervals; dry.		
37	NA	NA	100%						
38	NA	NA	100%						
39	NA	NA	100%						
40	NA	NA	100%			CL			

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. PID malfunctioning.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-8
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 449146.9' N 1324070.2' E Ground Elev: 17.12' NAVD88		
Drilling Method: Sonic		Sheet: 3 of 4	
Sample Type(s): 4" Open Drive Core		Well Installed: Dual Nested	
Boring Diameter: 6" / 8"		Screen: 10-25 and 50-60	

Weather: Rain ~60's F	Logged By: GR	Start Date: 9/25/2014	Depth of Boring: 65
Drilling Contractor: Summit - Danny Ninevski	Date Complete: 9/25/2014	Water: 12 and 51	

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	100%			CL	40 to 45 40 to 45 ft bgs: Same as above. (CL); no organics; dry.	Hydrated bentonite chips	
42						CL	45 to 50 45 to 50 ft bgs: Same as above. (CL); sporadic intervals of sand/clay mixture (up to 3" thick) occurring throughout run; no organics; dry.		
43						CL	50 to 55 50 to 55 ft. bgs: CLAYEY/SILTY SAND (SC/SM); grey; very fine sand; low to nonplastic; soft; last 2 feet grey with black staining; concretions beginning at 53 ft. up to 2.5", angular, unreactive with HCl; saturated.		
44	NA	NA	100%			CL	45 to 50 45 to 50 ft bgs: Same as above. (CL); sporadic intervals of sand/clay mixture (up to 3" thick) occurring throughout run; no organics; dry.	6" annulus	48 ft.
45						CL	50 to 55 50 to 55 ft. bgs: CLAYEY/SILTY SAND (SC/SM); grey; very fine sand; low to nonplastic; soft; last 2 feet grey with black staining; concretions beginning at 53 ft. up to 2.5", angular, unreactive with HCl; saturated.		
46						CL	55 to 60 55 to 60 ft. bgs: Poorly graded SAND (SP); light grey with scattered black mottle; fine sand; trace nonpastic fines; loose; intervals of sandy clay (up to 6") beginning at 56.5; scattered concretions not reactive to HCl; saturated.		
47	NA	NA	100%			CL	45 to 50 45 to 50 ft bgs: Same as above. (CL); sporadic intervals of sand/clay mixture (up to 3" thick) occurring throughout run; no organics; dry.	#2 sand	50 ft.
48						CL	50 to 55 50 to 55 ft. bgs: CLAYEY/SILTY SAND (SC/SM); grey; very fine sand; low to nonplastic; soft; last 2 feet grey with black staining; concretions beginning at 53 ft. up to 2.5", angular, unreactive with HCl; saturated.		
49						CL	55 to 60 55 to 60 ft. bgs: Poorly graded SAND (SP); light grey with scattered black mottle; fine sand; trace nonpastic fines; loose; intervals of sandy clay (up to 6") beginning at 56.5; scattered concretions not reactive to HCl; saturated.		
50	NA	NA	100%			CL	45 to 50 45 to 50 ft bgs: Same as above. (CL); sporadic intervals of sand/clay mixture (up to 3" thick) occurring throughout run; no organics; dry.	0.01" slotted screen	60 ft.
51						SC/SM	50 to 55 50 to 55 ft. bgs: CLAYEY/SILTY SAND (SC/SM); grey; very fine sand; low to nonplastic; soft; last 2 feet grey with black staining; concretions beginning at 53 ft. up to 2.5", angular, unreactive with HCl; saturated.		
52						SP	55 to 60 55 to 60 ft. bgs: Poorly graded SAND (SP); light grey with scattered black mottle; fine sand; trace nonpastic fines; loose; intervals of sandy clay (up to 6") beginning at 56.5; scattered concretions not reactive to HCl; saturated.		
53	NA	NA	100%			CL	45 to 50 45 to 50 ft bgs: Same as above. (CL); sporadic intervals of sand/clay mixture (up to 3" thick) occurring throughout run; no organics; dry.		
54						SC/SM	50 to 55 50 to 55 ft. bgs: CLAYEY/SILTY SAND (SC/SM); grey; very fine sand; low to nonplastic; soft; last 2 feet grey with black staining; concretions beginning at 53 ft. up to 2.5", angular, unreactive with HCl; saturated.		
55						SP	55 to 60 55 to 60 ft. bgs: Poorly graded SAND (SP); light grey with scattered black mottle; fine sand; trace nonpastic fines; loose; intervals of sandy clay (up to 6") beginning at 56.5; scattered concretions not reactive to HCl; saturated.		
56	NA	NA	100%			CL	45 to 50 45 to 50 ft bgs: Same as above. (CL); sporadic intervals of sand/clay mixture (up to 3" thick) occurring throughout run; no organics; dry.		
57						SC	50 to 55 50 to 55 ft. bgs: CLAYEY/SILTY SAND (SC/SM); grey; very fine sand; low to nonplastic; soft; last 2 feet grey with black staining; concretions beginning at 53 ft. up to 2.5", angular, unreactive with HCl; saturated.		
58						SP	55 to 60 55 to 60 ft. bgs: Poorly graded SAND (SP); light grey with scattered black mottle; fine sand; trace nonpastic fines; loose; intervals of sandy clay (up to 6") beginning at 56.5; scattered concretions not reactive to HCl; saturated.		
59	NA	NA	100%			CL	45 to 50 45 to 50 ft bgs: Same as above. (CL); sporadic intervals of sand/clay mixture (up to 3" thick) occurring throughout run; no organics; dry.		
60						SC/SM	50 to 55 50 to 55 ft. bgs: CLAYEY/SILTY SAND (SC/SM); grey; very fine sand; low to nonplastic; soft; last 2 feet grey with black staining; concretions beginning at 53 ft. up to 2.5", angular, unreactive with HCl; saturated.		
61						SP	55 to 60 55 to 60 ft. bgs: Poorly graded SAND (SP); light grey with scattered black mottle; fine sand; trace nonpastic fines; loose; intervals of sandy clay (up to 6") beginning at 56.5; scattered concretions not reactive to HCl; saturated.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. PID malfunctioning.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-8
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 4 of 4
	Coordinates: 449146.9' N 1324070.2' E Ground Elev: 17.12' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Screen: 10-25 and 50-60	
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6" / 8"	

Weather: Rain ~60's F	Logged By: GR	Start Date: 9/25/2014	Depth of Boring: 65
Drilling Contractor: Summit - Danny Ninevski	Date Complete: 9/25/2014	Water: 12 and 51	

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
61	NA	NA	100%	0.0		CH	60 to 65	6" annulus	
62				0.0			60 to 65 ft bgs: FAT CLAY (CH); variagated red and grey; highly plastic; very stiff; sticky; dry. Arundel Clay.		
63				0.0					
64				0.0					
65				0.0			CH		
66							TD = 65 ft. bgs.	TD = 65 ft. bgs.	
67							Terminated at regional confining layer.		
68							First observed water ~ 14 and 51 ft. bgs.		
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-9
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448067.3' N 1324896.0' E Ground Elev: 36.36' NAVD88		
Drilling Method: Sonic		Sheet: 1 of 4	
Sample Type(s): 4" Open Drive Core		Well Installed: Dual Nested	
Boring Diameter: 6" / 8"		Screen: 18-38 and 51-66	
Weather: Clear 70's F	Logged By: GR	Start Date: 9/17/2014	Depth of Boring: 70
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/23/2014	Water: 27

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
0 to 5	NA	NA	NA			CL	0 to 5 ft. Asphalt Surface. 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be SILTY CLAY.	Flush pad Concrete	
5 to 10	NA	NA	100%	0.0		CL	5 to 10 ft. bgs.: SILTY CLAY (CL); orangish red with light grey mottle; silt (~20%), lensed; stiff; medium plastic; micaceous; moist to dry.	Bentonite grout slurry	2" riser
10 to 15	NA	NA	100%	0.0		CH	10 to 11 ft. bgs: Same as Above (CL); contains 2" coarse sand interval, angular. 11 to 15 ft. bgs: FAT CLAY (CH); strong brown; high plasticity; medium stiff; sticky; moist to dry.	8" annulus	
15 to 20	NA	NA	90%	0.0		CH	15 to 19.5 ft. bgs: Same as above (CH); dry.	14 ft. Well Seal	
19.5 to 20	NA	NA		0.0		CH	19.5 to 20 ft. bgs: Not recovered.	16 ft. #2 sand	18 ft. 0.01" slotted screen

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).	Analytical: Soil samples not collected.
	Clean city water used during boring advancement as drilling fluid.
Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.	Checked by: _____ Date: _____

	Client: PEPCO		Boring: MW-9	
	Project Number: 60287343.09			
	Site Location: 3400 Benning Road NE, Washington, DC			
	Coordinates: 448067.3' N 1324896.0' E Ground Elev: 36.36' NAVD88			
	Drilling Method: Sonic			
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	Well Installed: Dual Nested	
Weather: Clear 70's F		Logged By: GR	Start Date: 9/17/2014	Depth of Boring: 70
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/23/2014		Water: 27

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	100%	0.0		CH	20 to 25		
22				0.0			20 to 25 ft bgs: Same as above (CH); dry.		
23				0.0					
24				0.0					
25				0.0					
26	NA	NA	80%			ML/CL	25 to 30		
27					25 to 27 ft. bgs: SILTY CLAY (ML/CL); orangish red with pale grey and bright red lenses; silt (30-40%); low plasticity; stiff; dry.				
28					27 to 29 ft. bgs: SILTY SAND and GRAVEL (GM); orangish reddish brown; coarse to fine gravel, subangular and subround, hard, quartzose; coarse to fine sand (35-40%); angular; fines (15-20%); nonplastic; well graded; loose to medium dense; uncemented; saturated.				
29							29 to 30 ft. bgs: Not recovered.		
30	NA	NA	90%			GM	30 to 35		
31					30 to 34 ft. bgs: Same as Above. (GM); well graded; nonplastic fines up to 20%; saturated.				
32									
33									
34						GM	29 to 30 ft. bgs: Not recovered.		
35	NA	NA	90%			GM	35 to 40		
36					35 to 38.2 ft. bgs: Same as above (GM); decreasing fine content (5-10%); contains 3" interval of clean coarse gravel at top of run with iron oxide banding; saturated.				
37									
38					38.2 to 39 ft. bgs: SANDY CLAY/ORGANIC CLAYS (OH/CL); grey; larger proportion of sample unaltered wood with some lignite and carbonized wood; moist to dry.				
39					39 to 40 ft. bgs: Not recovered.				

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-9
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448067.3' N 1324896.0' E Ground Elev: 36.36' NAVD88		
	Sheet: 3 of 4		
Drilling Method: Sonic		Well Installed: Dual Nested	
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	Screen: 18-38 and 51-66
Weather: Clear 70's F		Logged By: GR	Start Date: 9/17/2014
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/23/2014	
		Depth of Boring: 70	Water: 27

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	100%	0.0		OH	40 to 45 40 to 43.5 ft bgs: ORGANIC SILT/CLAY (OH); dark grey with black staining; high to medium plasticity; sticky; medium stiff; carbonized and unaltered organic material; moist to dry.	Hydrated bentonite chips	
44	NA	NA	100%	0.0		SM/SC	43.5 to 45 ft bgs: SILTY fine SAND (SM/SC); grey; sand (80%), fine and very fine, angular; few fines; well graded; nonplastic; loose; bottom 6" contains organics; saturated.		
45	NA	NA	90%	0.0		CL	45 to 50 45 to 49 ft bgs: SANDY CLAY (CL); greyish brown; fine sand (10%); micaceous; low plasticity; soft; 3" interval of organics at top; 2" interval of medium and fine sand relatively clean; dry.	6" annulus	49 ft.
49	NA	NA	90%	0.0		SC	49 to 50 ft. bgs: Not recovered.	#2 sand	
50	NA	NA	90%	0.0		SM	50 to 55 50 to 54 ft. bgs: SILTY SAND (SM); brown; fine sand (80-90%); trace silt (<15%); nonplastic; loose; some stratification; micaceous; saturated.	51 ft.	0.01" slotted screen
54	NA	NA	90%	0.0		SC	54 to 55 ft. bgs: Not recovered.		
55	NA	NA	90%	0.0		SP	55 to 60 55 to 58 ft. bgs: Poorly graded SAND (SP); greyish brown; medium and fine, subangular; very loose; micaceous; saturated.	0.01" slotted screen	
58	NA	NA	90%	0.0		SW	58 to 59 ft. bgs: Well graded SAND (SW); light greyish brown; coarse to fine sand, subangular and subround; loose; uncemented; saturated.		
59	NA	NA	90%	0.0			59 to 60 ft. bgs: Not recovered.		
60	NA	NA	90%	0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-9
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448067.3' N 1324896.0' E Ground Elev: 36.36' NAVD88		
Drilling Method: Sonic		Sheet: 4 of 4	
Sample Type(s): 4" Open Drive Core		Well Installed: Dual Nested	
Boring Diameter: 6" / 8"		Screen: 18-38 and 51-66	
Weather: Clear 70's F	Logged By: GR	Start Date: 9/17/2014	Depth of Boring: 70
Drilling Contractor: Summit - Danny Ninevski	Date Complete: 9/23/2014		Water: 27

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
61	NA	NA	100%	0.0		SW	60 to 65 60 to 63 ft. bgs: Same as above (SW); saturated.		
62				0.0		CL	63 to 64 ft. bgs: SANDY LEAN CLAY (CL); light reddish brown with black mottling; some coarse to fine sand, subangular; low to medium plasticity; carbonaceous; moist.		
63				0.0		SM	64 to 65 ft. bgs: SILT SAND (SM); light greyish brown; coarse to fine sand (70%), subangular; few gravel, subround; well graded; medium dense; nonplastic; oxidation of fines; saturated.		
64	NA	NA	100%	0.0		SM	65 to 70 65 to 66 ft. bgs: Same as above (SM); saturated.		
65				0.0		CH	66 to 70 ft bgs: FAT CLAY (CH); variagated red and grey; highly plastic; very stiff; sticky; dry. Arundel Clay.		
66				0.0		CH			
67	NA	NA	100%	0.0		CH	TD = 70 ft bgs. Terminated at regional confining layer. First observed water ~ 27 ft. bgs.		
68				0.0					
69				0.0					
70				0.0					
71	NA	NA	100%	0.0					
72									
73									
74									
75									
76									
77									
78									
79									
80									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448707.2' N 1324574.0' E Ground Elev: 20.56' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"


Boring: MW-10

Sheet: 1 of 4
 Well Installed: Dual Nested
 Screen: 10-30 and 41-56

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/13/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/13/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1						SM/FILL	0 to 5 Unimproved surface. 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Brown SILTY SAND, little fine to coarse angular gravel, moist, no odor. (FILL)	Flush pad Concrete	
2	NA	NA	NA						
3								Bentonite grout slurry	
4									
5									
6	NA	NA	50%	0.0		SM/FILL	5 to 10 5 to 7.6 ft bgs: Brown Silty SAND, little fine to coarse angular gravel, trace clay, trace slag, low plasticity, loose, moist, no odor. (FILL)	Well seal	
7				0.0					
8				0.0			7.6 to 10 ft bgs: Not recovered.		
9									
10								10 ft.	
11	NA	NA	60%	0.0		SM/FILL	10 to 15 10 to 11.0 ft bgs: Brown Silty SAND, little fine to coarse angular gravel, trace clay, trace slag, low plasticity, loose, moist, no odor. (FILL)		
12				0.0					
13				0.0		SM	11.0 to 13.0 ft bgs: Brown fine SAND, some silt, trace stringy organics, medium dense, moist, slight organic odor.		
14							13 to 15 ft bgs: Not recovered.		
15								0.01" slotted screen	
16	NA	NA	80%	0.0		SM	15 to 20 15 to 18.8 ft bgs: Brown fine SAND, some silt, little clay, trace stringy organics, black degraded wood at 17.1-17.2', low plasticity, medium loose, wet, no odor.	#2 sand	
17				0.0					
18				0.0					
19							18.8 to 20 ft bgs: Not recovered.		
20									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments:  Graphic symbol codes: "Other" - Open drive core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by: _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448707.2' N 1324574.0' E Ground Elev: 20.56' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-10

Sheet: 2 of 4
 Well Installed: Dual Nested
 Screen: 10-30 and 41-56

Weather: Partly cloudy, 60's F
 Logged By: BD Start Date: 10/13/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/13/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion		
21	NA	NA	60%	0.0		SP	20 to 25	#2 sand 2" riser 0.01" slotted screen 8" annulus 30 ft.			
22				0.0		GW	20 to 21.0 ft bgs: Light Brown fine SAND, little Silt, loose, wet, no odor.				
23				0.0		GW	21.1 to 23.1 ft bgs: Light Grayish Brown sandy GRAVEL, well graded sand, fine to coarse angular gravel, loose, wet, no odor.				
24	0.0		23.1 to 25 ft. bgs: Not recovered.								
25	NA	NA	60%	0.0		GW	25 to 30	6" annulus Well seal 39 ft.			
26				0.0		GW	25 to 28 ft. bgs: Light Grayish Brown sandy GRAVEL, trace silt, well graded sand, fine to coarse angular gravel, loose, wet, no odor.				
27				0.0			30 to 35 ft. bgs: Not recovered.				
28	0.0										
29	NA	NA	70%	0.0		CL	30 to 35	Well seal 39 ft.			
30				0.0		SP	30 to 31.5 ft. bgs: Light Grayish Brown CLAY, trace silt, medium plasticity, soft, moist, no odor.				
31				0.0		SP	31.5 to 33.5 ft. bgs: Gray SAND, fine to medium grained, trace silt, loose, wet, no odor.				
32	0.0		33.5 to 35 ft. bgs: Not recovered.								
33	NA	NA	70%	0.0		SP	35 to 40	Well seal 39 ft.			
34				0.0		SP	35 to 38.6 ft. bgs: Gray SAND, fine to medium grained, trace medium subrounded gravel, leafy organics at 36.2', loose, wet, no odor.				
35				0.0			38.6 to 40 ft. bgs: Not recovered.				
36	NA	NA	70%	0.0		SP	35 to 40			Well seal 39 ft.	
37				0.0		SP	35 to 38.6 ft. bgs: Gray SAND, fine to medium grained, trace medium subrounded gravel, leafy organics at 36.2', loose, wet, no odor.				
38				0.0			38.6 to 40 ft. bgs: Not recovered.				
39	NA	NA	70%	0.0		SP	35 to 40	Well seal 39 ft.			
40				0.0		SP	35 to 38.6 ft. bgs: Gray SAND, fine to medium grained, trace medium subrounded gravel, leafy organics at 36.2', loose, wet, no odor.				
41	NA	NA	70%	0.0		SP	35 to 40			Well seal 39 ft.	
42				0.0		SP	35 to 38.6 ft. bgs: Gray SAND, fine to medium grained, trace medium subrounded gravel, leafy organics at 36.2', loose, wet, no odor.				
43	NA	NA	70%	0.0		SP	35 to 40	Well seal 39 ft.			
44				0.0		SP	35 to 38.6 ft. bgs: Gray SAND, fine to medium grained, trace medium subrounded gravel, leafy organics at 36.2', loose, wet, no odor.				
45	NA	NA	70%	0.0		SP	35 to 40			Well seal 39 ft.	
46				0.0		SP	35 to 38.6 ft. bgs: Gray SAND, fine to medium grained, trace medium subrounded gravel, leafy organics at 36.2', loose, wet, no odor.				

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.
 Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448707.2' N 1324574.0' E Ground Elev: 20.56' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-10

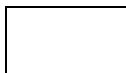
Sheet: 3 of 4
 Well Installed: Dual Nested
 Screen: 10-30 and 41-56

Weather: Partly cloudy, 60's F Logged By: BD Start Date: 10/13/2014 Depth of Boring: 65
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/13/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	70%	0.0		SW	40 to 45 40 to 42.1 ft bgs: Gray SAND, fine to coarse grained, loose, wet, no odor.	41 ft.	
42				CL		42.1 to 43 ft. bgs: Gray silty CLAY, some fine grained sand, medium plasticity, moist, medium soft, no odor.			
43				SP		43 to 43.6 ft. bgs: Gray SAND, fine to medium grained, loose, wet, no odor.			
44						43.6 to 45 ft. bgs: Not recovered.			
45	NA	NA	60%	0.0		SW	45 to 50 45 to 47.3 ft. bgs: Gray SAND, fine to coarse grained, trace fine subrounded gravel, loose, wet, no odor.	#2 sand	
46				SP		47.3 to 47.7 ft. bgs: Gray SAND, fine grained, little silt, little degraded wood, medium loose, wet, no odor.			
47				SP		47.7 to 48.2 ft. bgs: Gray SAND, fine to medium grained, trace fine subrounded gravel, loose, wet no odor.			
48						48.2 to 50 ft. bgs: Not recovered.			
49	NA	NA	70%	0.0		SW	50 to 55 50 to 53.5 ft. bgs: Gray SAND, fine to coarse grained, little fine to coarse subangular gravel, with cobbles, loose, wet, no odor.	0.01" slotted screen	
50						53.5 to 55 ft. bgs: Not recovered.			
51									
52									
53	NA	NA	90%	0.0		SW	55 to 60 55 to 55.5 ft. bgs: Gray SAND, fine to coarse grained, little fine to medium subrounded gravel, loose, wet, no odor.	6" annulus	
54				ML		55.5 to 59.5 ft. bgs: Gray sandy SILT, fine grained sand, trace clay, low plasticity, stiff, dry, no odor.			
55						59.9 to 60 ft. bgs: Not recovered.			
56									
57	NA	NA	90%	0.0				56 ft.	
58									
59									
60									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

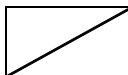
Client: PEPCO		Boring: MW-10
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		
Coordinates: 448707.2' N 1324574.0' E		Ground Elev: 20.56' NAVD88
Drilling Method: Sonic		Well Installed: Dual Nested
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"
		Screen: 10-30 and 41-56

Weather: Partly cloudy, 60's F	Logged By: BD	Start Date: 10/13/2014	Depth of Boring: 65
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 10/13/2014	Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion	
61	NA	NA	80%	0.0		CL/ML	60 to 65	6" annulus →		
				0.0			60 to 63 ft. bgs: Gray clayey SILT, little very fine sand, low plasticity, driff, dry, no odor.			
62				0.0		CL	63 to 63.9 ft. bgs: Gray silty CLAY, medium plasticity, stiff, dry, no odor.			
63				0.0						Well seal →
64				0.0						
65	0.0									
66							TD = 65 ft bgs.		TD = 65 ft bgs.	
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
80										

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil Analytical: Soil samples not collected. description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 449241.2' N 1324624.3' E Ground Elev: 17.15' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-11

Sheet: 1 of 4
 Well Installed: Dual Nested
 Screen: 27-42 and 50-62

Weather: Party cloudy 70's F
 Logged By: BD Start Date: 10/1/2014 Depth of Boring: 70
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/1/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1						SM/FILL	0 to 5 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Dark brown SILTY SAND, well graded, little fine to medium angular gravel, dry, no odor.	Flush pad Concrete	
2	NA	NA	NA						
3									
4								2" riser	
5							Air knife to 6 feet in this location based on utility depths derived from geophysical survey.		
6				0.0		SM/SC	5 to 10 5 to 7.2 ft bgs: Dark gray SILTY SAND, well graded, little well graded angular gravel, some dark staining/sheen, medium dense, hydrocarbon odor.	Bentonite grout slurry	
7	NA	NA	40%	0.2					
8				0.0					
9							7.2 to 10 ft. bgs: Not recovered.		
10									
11				0.0		SP	10 to 15 10 to 11.7 ft. bgs: Gray GRAVELLY SAND, fine to medium angular gravel, well graded sand, wet, loose, no odor.		
12	NA	NA	50%	0.0		ML	11.7 to 12.3 ft. bgs: Light brown SILT, little clay, low plasticity, soft, moist, no odor.		
13				0.0					
14							12.3 to 15 ft. bgs: Not recovered.	8" annulus	
15									
16				0.0		CL	15 to 20 15 to 19.5 ft. bgs: Light brown CLAY, trace organics, medium plasticity, little silt, soft, moist, no odor.		
17	NA	NA	90%	0.0					
18				0.0					
19				0.0					
20				0.0			19.5 to 20 ft. bgs: Not recovered.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).
 Analytical: Soil samples not collected.
 Clean city water used during boring advancement as drilling fluid.

Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.
 Checked by: _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 449241.2' N 1324624.3' E Ground Elev: 17.15' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

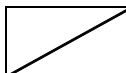
Boring: MW-11
 Sheet: 2 of 4
 Well Installed: Dual Nested
 Screen: 27-42 and 50-62

Weather: Party cloudy 70's F Logged By: BD Start Date: 10/1/2014 Depth of Boring: 70
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/1/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	100%	0.0		SP	20 to 25 ft. bgs: Light gray SAND, fine grained, trace organics, loose, wet, no odor.	Bentonite grout slurry	
22				0.0		CL	21.8 to 24 ft. bgs: Dark gray CLAY, little silt, trace organics, medium plasticity, soft moist, organic odor.		
24				0.0		SC	24 to 25 ft. bgs: Dark gray CLAYEY SAND, fine grained, trace organics, medium loose, wet, organic odor.		
25	NA	NA	80%	0.0		CL	25 to 30 ft. bgs: Dark gray SANDY CLAY, trace organics, low plasticity, soft, moist, organic odor.	#2 sand	
26				0.0		GW	27.6 to 28 ft. bgs: Strong brown SANDY GRAVEL, well graded sand, well graded subangular gravel, loose, wet, no odor.		
28				0.0		ML	28 to 29 ft. bgs: Olive brown SANDY SILT, fine grained, soft, moist, no odor.		
29				0.0			29 to 30 ft. bgs: Not recovered.		
30	NA	NA	80%	0.0		ML	30 to 35 ft. bgs: Olive brown SANDY SILT, fine grained, soft, moist, no odor.	2" riser	
31				0.0		SP	32.6 to 33 ft. bgs: Olive brown SAND, medium grained, loose, wet, no odor.		
33				0.0		WOOD	33 to 33.8 ft. bgs: Dark brown WOOD, dense, wet, no odor.		
34	NA	NA	40%	0.0		SW	35 to 40 ft. bgs: Brownish gray SAND, well graded, loose, wet, no odor.	8" annulus	
36				0.0		ML	36.2 to 36.8 ft. bgs: Olive brown SANDY SILT, fine grained, soft, moist, no odor.		
38				0.0			36.8 to 40 ft. bgs: Not recovered.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments



Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Clean city water used during boring advancement as drilling fluid.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 449241.2' N 1324624.3' E Ground Elev: 17.15' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-11
 Sheet: 3 of 4
 Well Installed: Dual Nested
 Screen: 27-42 and 50-62

Weather: Party cloudy 70's F Logged By: BD Start Date: 10/1/2014 Depth of Boring: 70
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/1/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	80%	0.0		ML	40 to 45 40 to 41.2 ft bgs: Olive brown SANDY SILT, fine grained, soft, moist, no odor. 41.2 to 42.1 ft bgs: Light brown SAND, medium grained, little rounded gravel, loose, wet, no odor.	42 ft.	
42				SP		42.1 to 44.2 ft bgs: Light gray CLAY, some partially lignitized wood fragments, medium plasticity, very stiff, dry, no odor.			
43				OH		44.2 to 45 ft. bgs: Not recovered.			
44									
45	NA	NA	100%	0.0		SC	45 to 50 45 to 50 ft bgs: Light gray CLAYEY SAND, fine grained, low plasticity, very dense, moist, no odor.	6" annulus	
46									
47									
48									
49	NA	NA	90%	0.0		SP	50 to 55 50 to 54.6 ft bgs: Light gray SAND, fine to medium grained, loose, wet, no odor.	50 ft.	
51									
52									
53									
54	NA	NA	90%	0.0			54.6 to 55 ft. bgs: Not recovered.	0.01" slotted screen	
55				SP		55 to 60 55 to 56.2 ft bgs: Light gray SAND, fine to medium grained, loose, wet, no odor.			
56				CL		56.2 to 57.2 ft bgs: Light gray CLAY, little silt, medium plasticity, very stiff, dry, no odor.			
57				SP		57.2 to 59.4 ft bgs: Light gray SAND, fine to medium grained, trace black wood fragments, loose, wet, no odor.			
58	NA	NA	90%	0.0			59.4 to 60 ft. bgs: Not recovered.	#2 filter sand	
59									
60									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.
 Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 449241.2' N 1324624.3' E Ground Elev: 17.15' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-11

Sheet: 4 of 4
 Well Installed: Dual Nested
 Screen: 27-42 and 50-62

Weather: Party cloudy 70's F Logged By: BD Start Date: 10/1/2014 Depth of Boring: 70
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/1/2014 Water: 11

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion	
61	NA	NA	90%	0.0		SP	60 to 65 <u>60 to 60.8 ft bgs</u> : Light gray SAND, fine to medium grained, trace black wood fragments, loose, wet, no odor.	62 ft. Bentonite plug 6" annulus		
				0.0		WOOD	60.8 to 61.1 ft bgs: Dark brown degraded wood, hard, no odor.			
62				0.0		SP	61.1 to 61.8 ft bgs: Light gray SAND, fine to medium grained, loose, wet, no odor.			
63				0.0		ML	61.8 to 64.6 ft bgs: Light gray CLAYEY SILT, little fine sand, medium plasticity, stiff, dry, no odor.			
64				0.0			64.6 to 65 ft. bgs: Not recovered.			
65	NA	NA	100%	0.0		ML	65 to 70 <u>65 to 66.2 ft bgs</u> : Light gray CLAYEY SILT, little fine sand, medium plasticity, stiff, dry, no odor.			
66				0.0		CH	66.2 to 70 ft bgs: Greenish gray and red mottled CLAY, high plasticity, very stiff, dry, no odor. (Arundel Clay)			
67										
68										
69										
70										
71							TD = 70 ft. bgs.			
72										
73										
74										
75										
76										
77										
78										
79										
80										

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.
 Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 447922.6' N 1325765.4' E Ground Elev: 31.14' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-12
 Sheet: 1 of 3
 Well Installed: Dual Nested
 Screen: 9-29 and 38-46

Weather: Cloudy, 70's F
 Logged By: BD Start Date: 10/2/2014 Depth of Boring: 50
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/2/2014 Water: 12

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1	NA	NA	NA	0.0		SM/FILL	0 to 5 0 - 0.5 ft. bgs: Asphalt 0.5 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Dark brown SILTY SAND, well graded, some fine to coarse angular gravel, moist, no odor.	Flush pad	
2							5 to 10 5 to 5.9 ft. bgs: Dark brown SILTY SAND, well graded, some fine to coarse angular gravel, moist, slight sheen, slight hydrocarbon odor.	Concrete	
3							5.9 to 6.0 ft. bgs: Very pale brown SAND, medium grained, cemented, very dense, dry, no odor.	Bentonite grout slurry	
4							6 to 10 ft. bgs: Not recovered.	Well seal	
5							10 to 15 10 to 10.2 ft. bgs: Light greenish gray SILTY CLAY, low plasticity, soft, moist, degraded hydrocarbon odor.	9 ft.	
6	NA	NA	20%	0.0		SM/FILL SP/FILL	10.2 to 12.5 ft. bgs: Grayish brown SILT, little fine sand, trace medium subrounded gravel, medium soft, moist, no odor.		
7							12.5 to 13.6 ft. bgs: Pale brown SAND, fine to medium grained, little silt, loose, wet, no odor.		
8							13.6 to 15 ft. bgs: Not recovered.		
9							15 to 20 15 to 16 ft. bgs: Grayish brown SAND, well graded, some well graded subangular gravel, little silt, loose, wet, no odor.		0.01" slotted screen
10	NA	NA	70%	0.0		CL/FILL ML SP	16 to 17 ft. bgs: Brownish yellow CLAY, some silt, trace coarse angular gravel, low plasticity, stiff, dry, no odor.		
11							17 to 18.5 ft. bgs: Brownish yellow SAND, fine to medium grained, little coarse sand, little silt, little fine to medium rounded gravel, loose, wet, no odor.		
12							18.5 to 20 ft. bgs: Not recovered.		#2 sand
13	NA	NA	70%	0.0		SW CL			
14									
15	NA	NA	70%	0.0		SP			
16									
17	NA	NA	70%	0.0		SW CL			
18									
19	NA	NA	70%	0.0		SP			
20									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by: _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 447922.6' N 1325765.4' E Ground Elev: 31.14' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-12

Sheet: 2 of 3
 Well Installed: Dual Nested
 Screen: 9-29 and 38-46

Weather: Cloudy, 70's F
 Logged By: BD Start Date: 10/2/2014 Depth of Boring: 50
 Drilling Contractor: Summit - Danny Ninevski Date Complete: 10/2/2014 Water: 12

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	60%	0.0		SP	20 to 25 20 to 21 ft bgs: Brownish yellow SAND, fine grained, trace fine angular gravel, loose, wet, no odor.	#2 sand 2" riser 0.01" slotted screen 8" annulus 29 ft. Well seal 6" annulus #2 filter sand 38 ft.	
22				GW		21 to 22.5 ft. bgs: Brownish yellow SANDY GRAVEL, well graded sand, well graded rounded gravel, loose, wet, no odor.			
23				SP		22.5 to 23 ft. bgs: Brownish yellow SAND, fine grained, light gray layer at 22.5' (0.5" thick), medium loose, wet, no odor.			
24		23 to 25 ft. bgs: Not recovered.							
25	NA	NA	40%	0.0		SP	25 to 30 25 to 26.8 ft bgs: Brownish yellow SAND, fine to medium grained, trace fine rounded gravel, trace coarse sand, loose, wet, no odor.	29 ft. Well seal 6" annulus #2 filter sand 38 ft.	
26						26.8 to 27.2 ft bgs: Quartz rock.			
27						27.2 to 30 ft. bgs: Not recovered.			
28									
29	NA	NA	100%	0.0		OH	30 to 35 30 to 33 ft bgs: Gray CLAY, high plasticity, little organics (wood, stringy vegetation), medium stiff, moist, no odor.	#2 filter sand 38 ft.	
30						33 to 35 ft bgs: Gray SILT, little clay, little fine sand, trace organics, low plasticity, soft, moist, no odor.			
31									
32									
33	NA	NA	95%	0.0		ML	35 to 40 35 to 36 ft. bgs: Gray SILT, little clay, little fine sand, trace organics, low plasticity, soft, moist, no odor.	#2 filter sand 38 ft.	
34						36 to 39.8 ft. bgs: Gray and light brown mottled CLAY, high plasticity, stiff, dry, no odor.			
35									
36									
37	NA	NA	95%	0.0		CL	39.8 to 40 ft. bgs: Not recovered.	#2 filter sand 38 ft.	
38									
39									
40									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.
 Checked by _____ Date: _____

Client: PEPCO		Boring: MW-12
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 3 of 3
Coordinates: 447922.6' N 1325765.4' E Ground Elev: 31.14' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Screen: 9-29 and 38-46
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6" / 8"
Weather: Cloudy, 70's F		Logged By: BD
Drilling Contractor: Summit - Danny Ninevski		Start Date: 10/2/2014
		Date Complete: 10/2/2014
		Depth of Boring: 50
		Water: 12

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	80%	0.0		SM	40 to 45	0.01" slotted screen	
42				40 to 43.8 ft bgs: Light gray and light brown mottled SILTY SAND, fine grained, trace clay, low plasticity, medium dense, moist to wet, no odor.					
43									
44									
45							43.8 to 45 ft. bgs: Not recovered.	#2 sand	
46	NA	NA	70%	0.0		SW	45 to 50	46 ft.	
46				45 to 45.5 ft. bgs: Yellowish brown SAND, well graded, little silt, little fine to medium rounded gravel, loose, wet, no odor.					
47									
48									
49				0.0		CH	45.5 to 49 ft. bgs: Red, brown and light bluish gray laminated CLAY, high plasticity, very stiff, dry, no odor. (Arundel Clay)	Hydrated bentonite chips	
49									
50				0.0			49 to 50 ft. bgs: Not recovered.		
51							TD = 50 ft bgs. Terminated at regional confining layer.		
52									
53									
54									
55									
56									
57									
58									
59									
60									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____



Client: PEPCO
 Project Number: 60287343.09
 Site Location: 3400 Benning Road NE, Washington, DC
 Coordinates: 448449.7' N 1325558.0' E Ground Elev: 27.85' NAVD88
 Drilling Method: Sonic
 Sample Type(s): 4" Open Drive Core Boring Diameter: 6"/8"

Boring: MW-13

Sheet: 1 of 3
 Well Installed: Dual Nested
 Screen: 8-20 and 30-45

Weather: Sunny, 60's F
 Logged By: BD
 Start Date: 10/8/2014
 Depth of Boring: 50
 Drilling Contractor: Summit - Danny Ninevski
 Date Complete: 10/8/2014
 Water: 10

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1					Asphalt	SMFILL	0 to 5 0 to 0.5 ft bgs: Asphalt 0.5 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be Brown SILTY SAND, well graded sand, some well graded angular gravel, with cobbles, dry, no odor. (FILL)	Flush pad Concrete	
2	NA	NA	NA						
3									
4								Bentonite grout slurry	
5									
6				0.0		SMFILL	5 to 10 5 to 7.0 ft bgs: Brown SILTY SAND, well graded sand, some well graded angular gravel, with cobbles, medium loose, moist, no odor. (FILL)	Well seal	
7				0.0					
8	NA	NA	60%	0.0		SM	7 to 7.8 ft bgs: Strong Brown SILTY SAND, well graded sand, some well graded subrounded gravel, with cobbles, moist, medium loose, no odor.		8 ft.
9									
10							7.8 to 10 ft bgs: Not recovered.		
11				0.0		SM	10 to 15 10 to 14 ft bgs: Strong Brown SILTY SAND, well graded sand, some well graded subrounded gravel, with cobbles, wet, medium loose, no odor.		
12	NA	NA	80%	0.0					
13				0.0					
14				0.0			14 to 15 ft bgs: Not recovered.		
15									
16				0.0		SP	15 to 20 15 to 18 ft bgs: Strong Brown SAND, fine to medium grained, little coarse sand, little silt, little well graded subangular gravel, wet, loose, no odor.	0.01" slotted screen	
17	NA	NA	80%	0.0					#2 sand
18				0.0					
19				0.0		SM	18 to 19 ft bgs: Strong Brown SAND and SILT, fine grained sand, dense, dry, no odor.	8" annulus	
20							19 to 20 ft bgs: Not recovered.		20 ft.

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).
 Analytical: Soil samples not collected.
 Clean city water used during boring advancement as drilling fluid.

Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.
 Checked by: _____ Date: _____



Client: PEPCO	Boring: MW-13
Project Number: 60287343.09	
Site Location: 3400 Benning Road NE, Washington, DC	
Coordinates: 448449.7' N 1325558.0' E Ground Elev: 27.85' NAVD88	Sheet: 2 of 3
Drilling Method: Sonic	Well Installed: Dual Nested
Sample Type(s): 4" Open Drive Core	Boring Diameter: 6"/8"
Screen: 8-20 and 30-45	

Weather: Sunny, 60's F	Logged By: BD	Start Date: 10/8/2014	Depth of Boring: 50
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 10/8/2014	Water: 10

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	95%	0.0		CH	20 to 25 20 to 22.2 ft. bgs: Strong Brown and Light Gray mottled CLAY, high plasticity, stiff, dry, no odor.	6" annulus	
22				ML		22.2 to 24.5 ft. bgs: Strong Brown and Light Gray mottled SILT, medium plasticity, medium stiff, dry, no odor.			
23				SP		24.5 to 24.8 ft. bgs: Strong Brown SAND, fine grained, little silt, medium loose, wet, no odor.			
24						24.8 to 25 ft. bgs: Not recovered.			
25				SP		25 to 30 25 to 25.6 ft. bgs: Strong Brown SAND, fine grained, little silt, medium loose, wet, no odor.			
26	NA	NA	80%	0.0	SM	25.6 to 29.0 ft. bgs: Strong Brown SAND, well graded, some silt, some well graded rounded gravel, loose, wet, no odor.	Well seal		
27					29 to 30 ft. bgs: Not recovered.				
28									
29									
30	NA	NA	80%	0.0	SW	30 to 35 30 to 32 ft. bgs: Strong Brown SAND, well graded, little well graded rounded gravel, trace silt, loose, wet, no odor.	2" riser		
31				ML	32 to 32.7 ft. bgs: Gray SILT, little clay, low plasticity, soft, moist, no odor.				
32				SP	32.7 to 33.8 ft. bgs: Light Gray SAND, medium grained, loose, wet, no odor.				
33				SM	33.8 to 34 ft. bgs: Light Gray SAND, fine grained, some silt, little clay, medium dense, wet, no odor.				
34					34 to 35 ft. bgs: Not recovered.				
35	NA	NA	70%	0.0	SP	35 to 40 35 to 36.4 ft. bgs: Very Pale Brown SAND, fine to medium grained, loose, wet, no odor.	30 ft.		
36				SP	36.4 to 37 ft. bgs: Yellowish Red SAND, fine to medium grained, loose, wet, no odor.				
37				SP	37 to 38.6 ft. bgs: Very Pale Brown SAND, fine to medium grained, loose, wet, no odor.				
38					38.6 to 40 ft. bgs: Not recovered.				
39							0.01" slotted screen		
40							#2 filter sand		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.
Checked by _____ Date: _____

Client: PEPCO		Boring: MW-13
Project Number: 60287343.09		
Site Location: 3400 Benning Road NE, Washington, DC		
Coordinates: 448449.7' N 1325558.0' E Ground Elev: 27.85' NAVD88		Sheet: 3 of 3
Drilling Method: Sonic		Well Installed: Dual Nested
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"
Weather: Sunny, 60's F		Screen: 8-20 and 30-45
Logged By: BD		Start Date: 10/8/2014
Drilling Contractor: Summit - Danny Ninevski		Depth of Boring: 50
		Date Complete: 10/8/2014
		Water: 10

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	70%	0.0		SP	40 to 45	0.01" slotted screen	
				0.0			40 to 41.2 ft. bgs: Dark Gray SAND, fine to medium grained, little organics (degraded wood fragments), trace silt, wet, loose, slight organic odor.		
42				0.0			41.2 to 43.7 ft. bgs: Brown SAND, well graded, little well graded subrounded gravel, loose, wet, no odor.		
43				0.0			43.7 to 45 ft. bgs: Not recovered.		
44	NA	NA	100%			ML	45 to 50	#2 sand	45 ft.
45				0.0			45 to 48 ft. bgs: Gray SILT, little fine sand, trace clay, low plasticity, medium soft, moist, no odor.		
46				0.0			48 to 48.1 ft. bgs: Black leafy ORGANIC MATERIAL, wet, soft, slight organic odor.		
47				0.0			48.1 to 49.8 ft. bgs: Gray SAND-SILT-CLAY mixture, fine grained sand, dense, moist, no odor.		
48				0.0			49.8 to 50 ft. bgs: Light Yellowish Brown CLAY, high plasticity, very stiff, dry, no odor.		
49						CH		Hydrated bentonite chips	
50									
51							TD = 50 ft. bgs.		
52									
53									
54									
55									
56									
57									
58									
59									
60									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988). Analytical: Soil samples not collected.

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-14
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448965.1' N 1325694.5' E Ground Elev: 25.24' NAVD88		
Drilling Method: Sonic		Sheet: 1 of 3	
Sample Type(s): 4" Open Drive Core		Well Installed: Dual Nested	
Boring Diameter: 6"/8"		Screen: 7-27 and 39-57	
Weather: Clear 50-70's F		Logged By: GR	Start Date: 9/23/2014
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/24/2014	Depth of Boring: 60
			Water: ~12

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
1	NA	NA	NA			SM/FILL	0 to 5 ft. Asphalt 0 to 5 ft bgs: Cleared by Air Knife/Vac Truck. Appeared to be SILTY SAND FILL	Flush pad Concrete Bentonite grout slurry	
2	NA	NA	NA					2 ft.	
3	NA	NA	80%			SM	5 to 10 ft. bgs: SILTY SAND (SM); light reddish brown; fine sand (90%); few fines; oxidized; nonplastic; trace coarse sand, angular; poorly graded; loose; dry. (FILL)		
4	NA	NA	80%	0.2					
5	NA	NA	80%	0.0					
6	NA	NA	80%	0.3					
7	NA	NA	80%	0.0		SM	7 to 9 ft. bgs: SILTY SAND with GRAVEL (SM); yellowish tan; coarse to fine sand, angular; coarse gravel, angular, quartzose; few fines; nonplastic; well graded; loose; dry.		
8	NA	NA	80%	0.0					
9	NA	NA	80%	0.0			9 to 10 ft. bgs: Not recovered.		
10	NA	NA	80%	0.0		SM	10 to 15 ft. bgs: Same as Above. (SM) (with coarse fraction (gravel) grading out; dry.	2" riser	
11	NA	NA	80%	0.0					
12	NA	NA	80%	0.0					
13	NA	NA	80%	0.0		SW	12.7 to 14 ft bgs: Same as above (SM); predominately fine sand; some coarse, angular; some gravel, subround; lenses (up to 1mm) slightly plastic, buff clay; loose; nonplastic; saturated.		
14	NA	NA	80%	0.0			14 to 15 ft. bgs: Not recovered.		
15	NA	NA	80%	0.0		SW	15 to 20 ft. bgs: SILTY SAND and GRAVEL (SW); orangish brown; coarse to fine sand (60%), subround and subangular; crystalline gravel (20-25%), subround and subangular; few fines; nonplastic; very loose; saturated.	0.01" slotted screen	
16	NA	NA	80%	0.0			6" from 15.5 to 16 fine silty sand with trace clay.		#2 sand
17	NA	NA	80%	0.0					
18	NA	NA	80%	0.0					
19	NA	NA	80%	0.0			19 to 20 ft. bgs: Not recovered.		
20	NA	NA	80%	0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).	Analytical: Soil samples not collected.
	Clean city water used during boring advancement as drilling fluid.
Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.	
Checked by: _____ Date: _____	

	Client: PEPCO		Boring: MW-14
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 2 of 3
	Coordinates: 448965.1' N 1325694.5' E Ground Elev: 25.24' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Boring Diameter: 6"/8"	Screen: 7-27 and 39-57
Sample Type(s): 4" Open Drive Core		Start Date: 9/23/2014	Depth of Boring: 60
Weather: Clear 50-70's F		Logged By: GR	Date Complete: 9/24/2014
Drilling Contractor: Summit - Danny Ninevski		Water: 12	

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	80%	0.0		SM	20 to 25 ft bgs: Same as above (SM) saturated.	0.01" slotted screen	
22	NA	NA	80%	0.0		CL	20.2 to 21.2 ft bgs: SANDY SILTY CLAY (CL); greenish grey, low to medium plastic; very fine sand; some silt; wet.		
23	NA	NA	80%	0.0		OH	21.2 to 22.8 ft bgs: ORGANIC CLAY (OH); strong brown with black laminae; medium to high plasticity; soft; well preserved wood; moist to dry.	#2 sand	
24	NA	NA	80%	0.0		SW	22.8 to 24 ft bgs: Well graded SAND (SW); grey, coarse to fine sand, subangular and subround; few crystalline gravel, very loose; uncemented saturated.	2" riser	
25	NA	NA	80%	0.0			24 to 25 ft bgs: Not recovered.	8" annulus	
26	NA	NA	100%	0.0		GM	25 to 30 ft bgs: SILTY SANDY GRAVEL (GM); pale orangish brown; gravel (up to 3') angular and subangular; coarse to fine sand; few fines, nonplastic; well graded; very loose; saturated.		
27	NA	NA	100%	0.0		OH	27 to 30 ft bgs: ORGANIC CLAY (OH); grey with black mottle; stiff; high plasticity; contains unaltered and slightly carbonized wood (1.5"); moist to dry.	27 ft.	
28	NA	NA	100%	0.0				Well seal	
29	NA	NA	100%	0.0		OH	30 to 35 ft bgs: Same as Above. (OH); white mottling; dry.		
30	NA	NA	100%	0.0		OH			
31	NA	NA	100%	0.0		OH			
32	NA	NA	100%	0.0		OH			
33	NA	NA	100%	0.0		OH		6" annulus	
34	NA	NA	100%	0.0		OH		Hydrated bentonite chips	
35	NA	NA	100%	0.0		OH	35 to 40 ft bgs: Same as above (OH); transitioning to inorganic CLAY (CH); grayish brown with irregular black mottle; few silt; micaceous; high plasticity; medium stiff to soft; trace unaltered and carbonized organics; moist to dry.		
36	NA	NA	100%	0.0		CH			
37	NA	NA	100%	0.0		CH			37 ft.
38	NA	NA	100%	0.0		CH			
39	NA	NA	100%	0.0		CH			39 ft.
40	NA	NA	100%	0.0		SC	39.7 to 40 ft bgs: SILTY CLAY/SAND (SC); grey; fine and very fine sand; poorly graded; low plasticity; very soft; saturated.	0.01" slotted screen	

Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected.
References: Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-14
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		Sheet: 3 of 3
	Coordinates: 448965.1' N 1325694.5' E Ground Elev: 25.24' NAVD88		Well Installed: Dual Nested
Drilling Method: Sonic		Screen: 7-27 and 39-57	
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	Depth of Boring: 60
Weather: Clear 50-70's F		Logged By: GR	Start Date: 9/23/2014
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/24/2014	Water: 12

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	80%	0.0		SC	40 to 45 ft. bgs: Same as above (SC); grades to... 41 to 44 ft bgs: Poorly graded SAND (SP); fine sand, subround; micaceous; loose; uncemented; saturated.		
42	NA	NA	80%	0.0		SP			
43	NA	NA	80%	0.0		SP			
44	NA	NA	80%	0.0		SP			
45	NA	NA	80%	0.0		SP	44 to 45 ft. bgs: Not recovered.		
46	NA	NA	80%	0.0		SP	45 to 50 ft. bgs: Same as above. (SP); Saturated. 46 to 48.5 ft.bgs: Well graded SAND (SW); buff to light grey; coarse to fine sand, arkosic; very loose; uncemented; saturated.		
47	NA	NA	80%	0.0		SW			
48	NA	NA	80%	0.0		SW			
49	NA	NA	80%	0.0		SW	bottom of core contains organics, carbonized and unaltered wood.		
50	NA	NA	80%	0.0		SW	48.5 to 50 ft. bgs: Not recovered.		
51	NA	NA	70%	0.0		SW	50 to 55 ft. bgs: Same as above (SW); contains 1.5" carbonized interval; grain size distribution increasing with depth containing few subrounded gravel; very loose; saturated.		
52	NA	NA	70%	0.0		SW	52.2 to 52.6 ft. bgs: CLAYEY SAND (SC); greenish grey; very fine sand; slightly plastic; very soft; 1mm laminae of carbonized organics; saturated.		
53	NA	NA	70%	0.0		SC			
54	NA	NA	70%	0.0		SW	52.6 to 53.4 ft. bgs: Well graded SAND (SW); grey; arkosic grading to well graded SAND and GRAVEL (GW); very loose; saturated.		
55	NA	NA	70%	0.0		GW	53.4 to 55 ft. bgs: Not recovered.		
56	NA	NA	100%	0.0		GM	55 to 60 ft. bgs: SILTY SAND and GRAVEL (GM); coarse to fine gravel, quartzose, subround and subangular, multicolored; coarse to fine sand, arkosic; trace nonplastic fines; loose; uncemented; saturated.		
57	NA	NA	100%	0.0		CH	---sharp contact---		
58	NA	NA	100%	0.0		CH	56 to 60 ft. bgs: FAT CLAY (CH); variagated grey and strong brown and red; very stiff; high plasticity/LL; dry. ARUNDEL CLAY.		
59	NA	NA	100%	0.0		CH	TD=60 ft. bgs Terminated at regional confining layer.		
60	NA	NA	100%	0.0		CH	First observed Groundwater at ~12 ft. bgs.		

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-15
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448363.6' N 1326303.1' E Ground Elev: 36.36' NAVD88		
	Drilling Method: Sonic		
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	Sheet: 1 of 4
Weather: Overcast 60's F		Logged By: GR	Well Installed: Dual Nested
Drilling Contractor: Summit - Danny Ninevski		Start Date: 9/17/2014	Depth of Boring: 65
		Date Complete: 9/30/2014	Water: ~30

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
0 to 5							Asphalt Surface.	Flush pad	
0 to 6 ft bgs						SM/SC FILL	Cleared by Air Knife/Vac Truck. Appeared to be SILTY CLAY.	Concrete	
1	NA	NA	NA						
2									
3									
4								2" riser	
5							Air knife to 6 feet in this location based on utility depths derived from geophysical survey.		
5 to 10				0.0		SM/SC FILL	5 to 6 ft. bgs: Cleared by air knife.		
6				0.0		SC	6 to 6.5 ft. bgs.: CLAYEY SAND (SC); yellowish orangish red with lenses of pale grey and bright red; fine sand, angular; medium to high plastic fines; micaceous; soft, loose; wet.	Bentonite grout slurry	
7			62%			CL	6.5 to 8.1 ft. bgs: SANDY CLAY (CL); variegated pale grey and orangish red; sticky; medium plastic; fine sand; micaceous; oxidized staining; damp to dry.		
8				0.0					
9							8.1 to 10 ft. bgs: Not recovered.		
10									
10 to 15				0.0		MH/CH	10 to 15 ft. bgs: Elastic SILT/CLAY (MH/CH); olive grey with pale grey mottle; sticky; high LL; high plasticity; trace very fine sand; moist.	8" annulus	
11				0.0					
12			56%				11.8 to 15 ft. bgs: Not recovered.		
13									
14									
15									
15 to 20				0.0		MH/CH	15 to 20 ft. bgs: Same as above (CH); reddish brown with pale grey mottle; dry.		
16				0.0					
17									
18			100%						
19									
20									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).	Analytical: Soil samples not collected.
	Clean city water used during boring advancement as drilling fluid.
Additional Comments: Graphic symbol codes: "Other" - Open drive core barrel.	
Checked by: _____ Date: _____	

	Client: PEPCO		Boring: MW-15
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448363.6' N 1326303.1' E Ground Elev: 36.36' NAVD88		
Weather: Overcast 60's F		Drilling Method: Sonic	Sheet: 2 of 4
Drilling Contractor: Summit - Danny Ninevski		Sample Type(s): 4" Open Drive Core	Well Installed: Dual Nested
		Boring Diameter: 6"/8"	Screen: 28-38 and 50-60
		Logged By: GR	Depth of Boring: 65
		Start Date: 9/17/2014	Water: ~30
		Date Complete: 9/30/2014	

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
21	NA	NA	100%	0.0		CH	20 to 25		
22				0.0		20 to 25 ft bgs: Same as above (CH); undifferentiated CLAYS (CH).			
23				0.0		@ 22.5 to 22.9 ft. fine sand content increase so core is very soft. Below that becomes pale grey and light reddish brown clay and elastic silt with lignite.			
24				0.0					
25				0.0		CH			
26	NA	NA	100%	0.0		ML/CL	25 to 30		
27				0.0		25 to 29.8 ft. bgs: FAT CLAY (CH); strong brown with intermittent black streaking and sporadic lenses (upto 3mm) of buff tan; highly plastic; medium stiff and soft; lignite or Mn+ staining (not dendritic); lenses of silt or mineral concretion not reactive to HCl; dry.			
28				0.0		grading to....			
29	NA	NA	100%	0.0		GM			
30				0.0		29.8 to 30 ft. bgs: SANDY SILTY CLAY/CLAYEY SAND (CL/SC); strong brown; little to no plasticity; fine sand; unaltered wood; dense; dry.			
31	NA	NA	100%	0.0		SW	30 to 35		
32				0.0		30 to 31.5 ft. bgs: SAND with GRAVEL (SW); pale grey; coarse to fine sand, angular; gravel (up to 1.5"), quartzose, subangular; few low plasticity fines that grade out quickly; very loose; well graded; unaltered wood; saturated.			
33				0.0		31.5 to 35 ft. bgs: Clean Well graded GRAVEL/SAND Mixture (GW); orangish red changing to buff and yellowish orange; gravel, (1.5"), subangular and subround, quartzose, multicolor; coarse to fine sand, angular; very loose; micaceous; oxidation present most strongly in 3" bands; saturated.			
34				0.0					
35	NA	NA	100%	0.0		GW	35 to 40		
36				0.0		35 to 37 ft. bgs: Same as above (GW); nonplastic fine content increasing toward bottom 6 inches; saturated.			
37				0.0		--sharp contact --scour or depositional unconformity -----			
38	NA	NA	100%	0.0		CH			
39				0.0		37 to 40 ft. bgs: FAT CLAY (CH) with lignite and wood; dark grey and black mottle of carbonized wood up to 10mm thick, pale grey lenses of silt up to 7 mm thick; highly plastic clays; elastic silts; stiff; unaltered wood and lignite; dry.			
40				0.0					

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-15
	Project Number: 60287343.09		
	Site Location: 3400 Benning Road NE, Washington, DC		
	Coordinates: 448363.6' N 1326303.1' E Ground Elev: 36.36' NAVD88		
Drilling Method: Sonic		Sheet: 3 of 4	
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	Well Installed: Dual Nested
Weather: Overcast 60's F		Logged By: GR	Start Date: 9/17/2014
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/30/2014	Depth of Boring: 65
			Water: ~30

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
41	NA	NA	100%	0.0		CH	40 to 45 40 to 43.3 ft bgs: Same as above; FAT CLAY (CH) with lignite; moist.	Hydrated bentonite chips	
42				0.0		last 6" becomes sandy (up to 2%) with contact at 43.3 ft. that is heavily oxidized and saturated.			
43				0.0					
44				0.0		SP	43.3 to 45 ft bgs: fine and medium SAND (SP); tan with bright yellowish orange staining; predominantly medium and fine sand, angular with few coarse angular sand; oxidized nonplastic fines; loose; weakly cemented; saturated.		
45	NA	NA	100%	0.0		CH	45 to 50 45 to 48 ft bgs: SILTY FAT CLAY (CH); variegated brown and pale grey; high plasticity; sticky; medium stiff; trace fine sand; few lignite inclusions and carbonization staining bands up to 3" thick where fine sand content ~25%; dry and moist.	6" annulus	
46				0.0		SC	48 to 50 ft bgs: CLAYEY fine SAND (SC); brown; fine sand (70-80%); slightly plastic fines; medium dense to loose; poorly graded; moderately cemented; bright orange oxidation at last 3"; saturated.		
47				0.0					
48				0.0					
49	NA	NA	80%	0.0		SC	50 to 55 50 to 51.1 ft. bgs: Same as above (SC); saturated.	50 ft	
50				0.0		GC	51.1 to 52.3 ft. bgs: SAND/CLAY and GRAVEL Mixture (GC); yellowish orange and bright red staining; gravel up to 1", quartzose, angular; coarse to fine sand; plastic clays (up to 15%); loose; well graded; saturated.		
51				0.0					
52				0.0	SC/CL	52.3 to 54 ft. bgs: SAND CLAY Mixture (SC/CL); yellowish orange changing to grey with black staining; low plasticity; fine sand, angular; medium dense/medium stiff; wet grading to dry.			
53	0.0		54 to 55 ft. bgs: Not recovered.						
54	NA	NA	60%	0.0		SC	55 to 60 55 to 56.5 ft. bgs: CLAYEY SAND with GRAVEL (SC) and lignite; pale grey and black; predominately fine sand; low plasticity fines; coarse sand, angular; few angular gravel up to 3"; stratified carbonized and unaltered wood; very loose; saturated.	0.01" slotted screen	
55				0.0		GM	56.5 to 58 ft. bgs: GRAVEL/SAND/SILT Mixture (GM); yellowish orangish brown; gravel, angular to subround, up to 3"; coarse to fine sand; nonplastic fines; oxidized; includes cobbles up to 4"; very loose; well graded; saturated.		
56				0.0					
57				0.0		58 to 60 ft. bgs: Not recovered.			
58	0.0								
59								#2 filter sand	
60								60 ft.	

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by _____ Date: _____

	Client: PEPCO		Boring: MW-15	
	Project Number: 60287343.09			
	Site Location: 3400 Benning Road NE, Washington, DC			
	Coordinates: 448363.6' N 1326303.1' E Ground Elev: 36.36' NAVD88			
	Drilling Method: Sonic			
Sample Type(s): 4" Open Drive Core		Boring Diameter: 6"/8"	Sheet: 4 of 4	
Weather: Overcast 60's F		Logged By: GR	Start Date: 9/17/2014	Well Installed: Dual Nested
Drilling Contractor: Summit - Danny Ninevski		Date Complete: 9/30/2014	Depth of Boring: 65	Screen: 28-38 and 50-60
			Water: ~30	

Depth (ft)	Sample Depth	Blow Count	% Recovery	PID/FID (ppm)	Graphic Log	USCS Symbol	Description	Water levels & Well design	Well Completion
61	NA	NA	100%	0.0		CH	60 to 65 ft bgs: Cobbles; saturated.	6" annulus	
62				0.0		CH	60.2 to 65 ft bgs: FAT CLAY (CH); variagated red and grey; highly plastic; very stiff; sticky; dry. Arundel Clay.	Bentonite plug	
63				0.0					
64				0.0					
65				0.0					
66							TD = 65 ft bgs. Terminated at regional confining layer. First observed water ~ 30 ft. bgs.		TD = 65 ft. bgs.
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

References: Soil classified using ASTM D2487 (USCS) and D2488 (Visual/Manual Method). Analytical: Soil samples not collected. Soil description and identification techniques also reference the Engineering Geology Field Manual (1988).

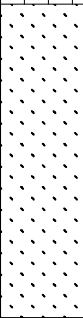
Additional Comments: Graphic symbol codes: "Other" - Open drive Sonic core barrel. Clean city water used during boring advancement as drilling fluid.

Checked by _____ Date: _____



Phase I Sediment Boring Logs

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 447688.22 Easting: 1323208.90	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.66	Drilling Method: Vibracore
Start Date: 11/6/2013	Top of Sediment Elevation (ft MLLW): -3.14	Recovery (ft): 8.9
Finish Date: 11/6/2013	Depth of Coring (fbm): 10.2	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Brown SILT, trace fine sand, very moist to wet, organic odor	SED1.5B00N
		ML			SED1.5B 6"-12"
1		ML		Brown SILT, trace fine sand, wet, organic odor	SED1.5B01N
	0.1				
2		ML		Brown SILT, trace fine sand, very moist, organic odor	SED1.5B03N
	0.4				
4		ML		Brown SILT, trace fine sand, moist, organic odor	SED1.5B05N
	0.2				
6		ML		Brown SILT, little fine grain micaceous sand, very moist, no odor	SED1.5B07N
	0.3				
8		ML		Brown sandy SILT, fine to medium grain, well graded, micaceous, very moist, no odor	SED1.5B 9' - 10'
	0				
10		SM		Brown silty SAND, fine to medium grain, well graded, micaceous, moist, no odor	
	0.1				
	0.0				
	0.0				

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450826.25 Easting: 1323959.18	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.09	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): -14.31	Recovery (ft): 8.2
Finish Date: 11/11/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		Mix of medium brown silt and some organic debris underlain by silty clay layer. Interface depth varied. Recovery was 4.5 below top of sampler.	SED10A00N
	0.2	ML		Dark brown SILT, little woody organic matter, wet, organic odor	SED10A 6"-12"
	0.4				
4	0.0	ML		Brown sandy SILT, fine grain, micaceous, very moist, no odor	SED10A01N
	0.2				
6	0.1	SW		Brown SAND, medium to coarse grain, well graded, micaceous, very moist to wet, no odor	SED10A03N
		PT		Walnut husks, bivalve shells, woody organic matter, black, no odor	
	0.0	SP		Brown SAND, coarse grain, some small gravel, wet, no odor	
8	0.0	ML		Dark brown sandy SILT, fine to medium grain, well graded, trace small gravel, very moist, no odor	SED10A05N
	0.0				
10	0.1	SP		Dark brown SAND, little silt, fine to medium grain, poorly graded towards medium, little woody organic material, wet, no odor	SED10A07N
					SED10A 9'-10'

Remarks:

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Boring Log

BORING #: SED10B

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450790.50 Easting: 1324041.53	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.81	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): -7.99	Recovery (ft): 5.9
Finish Date: 11/11/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT, gradual transition to fine sand, trace organic debris, few bivalves observed	SED10B00N
	0.0	SM		Dark brown silty SAND, fine to medium grain, well graded, little woody organic matter, trace small gravel, wet, organic odor	SED10B 6"-12"
	0.2				
2					
	0.1	SM		Brown silty SAND, fine to medium grain, well graded, trace small gravel, wet, organic odor	SED10B01N
	0.2	SM		Brown silty SAND, fine to medium grain, well graded, trace small gravel, very moist to wet, organic odor	
4					
	0.0				SED10B03N
	0.7				SED10B05N
6					

Remarks:

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









Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 447487.01 Easting: 1322949.33	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.66	Drilling Method: Vibracore
Start Date: 11/6/2013	Top of Sediment Elevation (ft MLLW): -4.34	Recovery (ft): 8.7
Finish Date: 11/6/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT	SED1A00N
	0.0	ML		Brown SILT, soft, wet to saturated, no odor	SED1A 6"-12"
	0.2	ML		1.5 Brown clayey SILT, lean, no plasticity, very moist to wet, no odor	SED1A01N
	0.0			3 Brown clayey SILT, lean, no plasticity, moist, no odor	SED1A03N
	0.0	ML		5 Brown clayey SILT, soft, wet to saturated	SED1A05N
	0.1			6 Brown clayey SILT, no plasticity, little fine grain sand, little organic matter, moist, organic odor	SED1A07N
	0.3	ML			SED1A 9'-10'
	0.2				
	0.0				
	0.0				
10				10	

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 447483.69 Easting: 1323023.25	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.841	Drilling Method: Vibracore
Start Date: 11/6/2013	Top of Sediment Elevation (ft MLLW): -11.16	Recovery (ft): 9.8
Finish Date: 11/6/2013	Depth of Coring (fbm): 10.1	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	CL		0.5 Medium brown silty CLAY	SED1B00N
	0.2	ML		Brown SILT, wet, organic odor	SED1B 6"-12"
	0.0	ML		1.5 Brown clayey SILT, lean, no plasticity, very moist to wet, organic odor	SED1B01N
2	0.0			3 Brown clayey SILT, lean, no plasticity, very moist, no odor	
	0.0	ML			SED1B03N
4	0.1				
	0.3				SED1B05N
6	0.0				
	0.0				SED1B07N
8	0.0	ML		8 Brown clayey SILT, lean, no plasticity, little fine grain sand, very moist, no odor	
	0.0	SP		9 Light brown SAND, medium to fine grain, poorly graded towards medium, little silt, very moist, no odor	SED1B 9'-10'
10				10	

Remarks:

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Boring Log

BORING #: SED2.5B

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448285.96 Easting: 1323217.10	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.33	Drilling Method: Vibracore
Start Date: 11/7/2013	Top of Sediment Elevation (ft MLLW): -0.67	Recovery (ft): 8.5
Finish Date: 11/7/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		Medium brown SILT, trace organic matter	SED2.5B00N
	0.5	ML		Brown SILT, approx. 40% woody organic matter, wet to saturated, organic odor	SED2.5B 6"-12"
	0.5	ML		Brown sandy SILT, fine to medium grain, well graded, wet, mica flakes, organic odor	SED2.5B01N
4	0.4				
	0.0				SED2.5B03N
	0.2				
6	1				
	0.5	ML		Brown SILT, little fine sand, very moist	SED2.5B05N
8	0.5	ML			
	0.5			Brown clayey SILT, lean, no plasticity, very moist to wet	SED2.5B07N
	0.4				
10	0.3				SED2.5B 9'-10'

Remarks:

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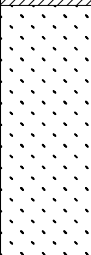
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 447452.22 Easting: 1323207.62	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.75	Drilling Method: Vibracore
Start Date: 11/7/2013	Top of Sediment Elevation (ft MLLW): -0.35	Recovery (ft): 8.9
Finish Date: 11/7/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	SM		0.5 Medium brown SILT and SAND, fine grained, some organic matter	SED1C00N
	0.7	ML		Brown SILT, trace fine sand, little organic matter present, wet, odor	SED1C 6"-12"
2	0.8				SED1C01N
	0.6				
		ML		3 Brown sandy SILT, fine to medium grain, well graded, micaceous, wet, odor	
4	1.1				SED1C03N
	1.3				
		ML		5 Brown sandy SILT, fine to medium grain, well graded, micaceous, very moist, odor	
6	1.2	ML		5.5 Brown sandy SILT, fine to medium grain, well graded, micaceous, some clay, no plasticity, very moist, odor	
		ML		6 Brown clayey SILT, lean, no plasticity, very moist to wet, trace organic matter, little fine grain micaceous sand, odor	SED1C05N
	1.1				
8	0.8				SED1C07N
	2.4				
	1.3				SED1C 9'-10'
10				10	

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 447930.53 Easting: 1323069.35	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.96	Drilling Method: Vibracore
Start Date: 11/6/2013	Top of Sediment Elevation (ft MLLW): -13.14	Recovery (ft): 8.3
Finish Date: 11/6/2013	Depth of Coring (fbm): 8.9	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5		ML		Medium brown SILT and leafy organic matter, few bivalve shells	SED2A00N
		ML		Woody organic matter with sandy SILT, fine grain sand, saturated, organic odor	SED2A 6"-12"
2		ML		Brown SILT, little organic woody matter, very moist, organic odor	SED2A01N
		ML		Brown SILT, little organic woody matter, trace clam shells and fragments, moist, organic odor	
4		ML		Brown clayey SILT, lean, no plasticity, moist, no odor	SED2A03N
		ML		Brown clayey SILT, lean, no plasticity, moist, no odor	
6	0.0				SED2A00N
	0.0	CL		Brown silty CLAY, lean, no plasticity, moist, no odor	SED2A05N
8	0.0	SM		Brown silty SAND, fine to medium grain, well graded, moist to very moist, no odor	SED2A07N
	0.0				
				8.9	

Remarks: Refusal at 8.9 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 447933.51 Easting: 1323118.10	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.46	Drilling Method: Vibracore
Start Date: 11/5/2013	Top of Sediment Elevation (ft MLLW): -5.84	Recovery (ft): 7.7
Finish Date: 11/5/2013	Depth of Coring (fbm): 10.6	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	SP		0.5 Medium brown SAND and leafy organic matter, fine grain	SED2B00N
		ML		Brown SILT, 50%-60% organic detritus matter, saturated, organic odor	SED2B 6"-12"
2	0.0				SED2B01N
	0.0				
	0.0	ML		3 Brown sandy SILT, fine grain sand, micaceous, trace small gravel, saturated, organic odor	SED2B03N
4	0.0				
	0.0				
	0.0	ML		5 Brown clayey SILT, lean, no plasticity, little fine sand, trace gravel, saturated, organic odor	SED2B05N
6	0.0				
	0.0	SM		6 Brown silty SAND, fine to medium grain, micaceous, trace wood pieces, saturated, organic odor	SED2B07N
	0.0	SM		7 Brown silty SAND, fine to medium grain, micaceous, trace wood pieces, saturated, anaerobic odor	SED2B07N
8	0.0				
	0.0				
	0.0	SM		9 Brown silty SAND, fine to medium grain, micaceous, trace clay, lean, no plasticity, trace wood pieces, saturated, anaerobic odor	SED2B 9'-10'
10	0.0				

Remarks:

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Boring Log

BORING #: SED2C

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 447937.51 Easting: 1323344.64	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.99	Drilling Method: Vibracore
Start Date: 11/6/2013	Top of Sediment Elevation (ft MLLW): -0.41	Recovery (ft): 9.5
Finish Date: 11/6/2013	Depth of Coring (fbm): 10.2	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0			Medium brown SILT and SAND, fine grain, some organic matter	SED2C00N
	0.1	ML		Brown clayey SILT, trace small gravel, lean, no plasticity, very moist to saturated, organic odor, odor	SED2C 6"-12"
2	0.4				SED2C01N
	3.6				
	4.8	ML		Brown clayey SILT, lean, no plasticity, little micaceous fine sand, trace small gravel, very moist, organic odor, odor	SED2C03N
4	5.2				
	4.6				SED2C05N
6	4.1				
	3				
8					
	0.5	SM		Brown silty SAND, fine to medium grain, trace lean clay, no plasticity, trace small gravel, moist to very moist	SED2C07N
	0.0				SED2C 9'-10'
10		SM		Brown silty SAND, fine to medium grain, little organic matter, trace lean clay, no plasticity, trace small gravel, moist	

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448558.14 Easting: 1323056.80	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.49	Drilling Method: Vibracore
Start Date: 11/12/2013	Top of Sediment Elevation (ft MLLW): -15.19	Recovery (ft): 8.1
Finish Date: 11/12/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft lbs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		0.17 Medium brown SILT	SED3.5B00N
		ML		SILT and SAND, fine grain, trace organic matter	
	1.0	ML		Brown SILT, wet	SED3.5B 6"-12"
4	1.0			2	SED3.5B01N
	0.9	ML		Brown SILT, some fine sand, wet, slight organic odor	
6	0.7	ML		3	SED3.5B03N
	0.2	SM		Dark brown/black silty SAND, fine to medium grain, micaceous, poorly graded towards medium, trace organic matter, slight organic odor	
8	0.1	ML		3.5	SED3.5B05N
	0.1	ML		Dark brown clayey SILT, lean, no plasticity, some fine sand, very moist	
	0.0	ML		Dark brown clayey SILT, lean, no plasticity, more fine sand, very moist, slight organic odor	
10	0.0	SW		6.5	SED3.5B07N
	0.2	SW		Brown SAND, fine to coarse grain, well graded, micaceous, little silt, trace organic matter	
10	0.1	SW		8	SED3.5B 9'-10'
	0.1	SW		Brown SAND, fine to medium grain, well graded, micaceous, little silt, trace organic matter, moist	

Remarks:

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Boring Log

BORING #: SED3A

Sheet 1 of 1



















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Project: Benning Road Facility	Northing: 448455.78 Easting: 1323010.07	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.58	Drilling Method: Vibracore
Start Date: 11/7/2013	Top of Sediment Elevation (ft MLLW): -11.22	Recovery (ft): 8.9
Finish Date: 11/7/2013	Depth of Coring (fbm): 10.3	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT and organic matter (mostly root mass), bivalve shells present	SED3A00N
	0.8	ML		Brown SILT, little clay, no plasticity, wet	SED3A 6"-12"
2	0.5	ML		Brown clayey SILT, lean, no plasticity, wet	SED3A01N
	1.0				
4	0.4				
	0.2	ML		Brown clayey SILT, lean, low to no plasticity, very moist	SED3A03N
6	0.2				
	0.7				
8	0.5	ML		Brown sandy SILT, fine to medium grain, well graded, little clay, no plasticity, very moist to wet	SED3A07N
	0.7				
	0.8				
10	0.4			SED3A 9'-10'	

Remarks:

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


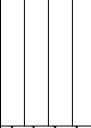
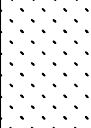
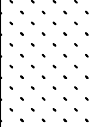
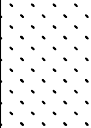


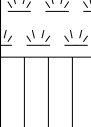
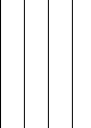
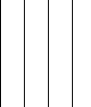
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448464.11 Easting: 1323062.88	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.1	Drilling Method: Vibracore
Start Date: 11/8/2013	Top of Sediment Elevation (ft MLLW): -14.70	Recovery (ft): 7.4
Finish Date: 11/8/2013	Depth of Coring (fbm): 9.7	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	SP		Medium brown SAND, fine grain, some organic material (leaves and twigs)	SED3B00N
	0.2	ML		Gray to brown SILT with some clay, no plasticity, trace fine sand, bi-valve present, moist, slight organic odor	SED3B 6"-12"
2		ML		Gray to brown SILT with some clay, no plasticity, trace fine sand, trace organic matter (fine roots and wood), moist, slight organic odor	SED3B01N
	0.2	ML		Gray to brown SILT with some clay, no plasticity, trace fine sand, slight fine mica flakes, trace organic matter (fine roots and wood), trace rounded gravel, moist, slight organic odor	
		ML		Gray to brown SILT with some clay, no plasticity, increasing fine sand, bi-valve present, trace organic matter (fine roots and wood), trace rounded gravel, moist, organic odor	
4					SED3B03N
	0.3				
	0.0	SW		Lighter brown to tan SAND, fine to medium grain, micaceous, well graded, some organic matter, moist	SED3B05N
6					
	0.1				
	0.2	SW		Lighter brown to tan SAND, fine to medium grain, micaceous, well graded, more organic matter, moist	SED3B07N
8					
	0.3				SED3B 9'-10'
					
					
					
					
					
					
					
					
					

Remarks: Refusal at 9.7 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448467.71 Easting: 1323124.13	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.85	Drilling Method: Vibracore
Start Date: 11/7/2013	Top of Sediment Elevation (ft MLLW): -2.75	Recovery (ft): 9.0
Finish Date: 11/7/2013	Depth of Coring (fbm): 9.9	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	OL		Medium brown SILT and leafy organic matter	SED3C00N
		ML		Brown SILT, some woody organic matter, little fine grain sand, wet to saturated, organic odor	SED3C 6"-12"
2	1.1	ML			SED3C01N
	1.4	ML		Brown sandy SILT, fine to medium grain, well graded, micaceous, wet, organic odor	SED3C01N
	1.8	SM		Brown silty SAND, micaceous, fine to medium grain, well graded, little woody organic matter, wet, organic odor	SED3C03N
4	0.8				SED3C03N
	0.9				SED3C05N
6	1.2				SED3C05N
	1.4	PT		Black peat layer, soft, wet, organic odor	
	1.4	ML		Brown sandy SILT, fine grain, micaceous, wet, organic odor	SED3C07N
8	1.1				SED3C07N
	1.1				SED3C 9'-10'
					

Remarks: Refusal at 9.9 fbm

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



Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449128.77 Easting: 1323163.53	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.16	Drilling Method: Vibracore
Start Date: 11/8/2013	Top of Sediment Elevation (ft MLLW): -7.44	Recovery (ft): 8.5
Finish Date: 11/8/2013	Depth of Coring (fbm): 8.6	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		0.5 Medium brown SILT, some organic matter	SED4.5B00N
	2.2	ML		1 Medium brown to gray SILT, significant leaf and organic matter, moist, slight organic odor	SED4.5B 6"-12"
	0.8	ML		Brown to gray SILT, little very fine sand, moist	SED4.5B01N
4	1.9	PT		2.4 Layer of leafy and woody organic matter, some silt, slight sheen, organic odor	SED4.5B03N
		PT		2.5 Layer of wood material (log)	
	10.3	ML	3 Brown to gray SILT, some fine sand and mica flakes, moist		
6	3.6				
	0.7				
	6			6 SAND, fine to medium grain, poorly graded, mica flakes, little silt, little organic matter, trace small gravel, moist	SED4.5B05N
8	0.6	SP		7 SAND, fine to coarse grain, poorly graded, mica flakes, little silt, little organic matter, trace small gravel, moist	SED4.5B07N
	0.5	SP			
				10	SED4.5B 9'-10'

Remarks: Refusal at 8.6 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448917.18 Easting: 1322976.43	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.68	Drilling Method: Vibracore
Start Date: 11/12/2013	Top of Sediment Elevation (ft MLLW): -13.12	Recovery (ft): 9.3
Finish Date: 11/12/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT, some organic matter	SED4A00N
	0.0	OL		Brown SILT, bivalve shells and woody organic debris prominent, wet, odor	SED4A 6"-12"
	0.0	ML		Dark brown sandy SILT, fine grain, micaceous, very moist	SED4A01N
2	0.0				
	0.0				
4	0.0				
6		SM		Brown silty SAND, fine to coarse grain, well graded, some small to large gravel, wet	SED4A05N
		SM		Brown silty SAND, fine to medium grain, well graded, some small to large gravel, wet	SED4A07N
8					
10					
					SED4A 9'-10'

Remarks:

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
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Project: Benning Road Facility	Northing: 448900.28 Easting: 1323088.70	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.09	Drilling Method: Vibracore
Start Date: 11/12/2013	Top of Sediment Elevation (ft MLLW): -5.79	Recovery (ft): 8.7
Finish Date: 11/12/2013	Depth of Coring (fbm): 9.8	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		Medium brown SILT, gradual transition to fine sand	SED4B00N
	0.0	ML		Brown SILT, little organic matter, wet	SED4B 6"-12"
	0.0				
4	0.0	SM		Brown silty SAND, fine to medium grain, well graded, trace small gravel, mica flakes, little woody organic matter, wet, slight organic odor	SED4B01N
	0.0	SM		Brown silty SAND, fine to medium grain, well graded, trace small gravel, mica flakes, little woody organic matter, moist, slight organic odor	
6	0.0	ML		Brown sandy SILT, fine grain, micaceous, some leaf and wood organic matter, moist to wet	SED4B03N
	0.0	ML		Gray brown SILT, trace clay, no plasticity, very moist	
	0.0				
8	0.0	SW		Gray brown SAND, micaceous, fine to medium grain, well graded, very moist to wet	SED4B05N
	0.0				
8	0.0	SW		Gray brown SAND, micaceous, fine to medium grain, well graded, little lean clay, very moist to wet	SED4B07N
	0.0	CL		Green CLAY, low plasticity, trace fine sand, wet, slight organic odor	SED4B 9'-10'

Remarks: Refusal at 9.8 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448888.08 Easting: 1323146.06	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.26	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -3.66	Recovery (ft): 8.0
Finish Date: 11/13/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML SM		0.17 Medium brown SILT SILT and SAND, fine grain, trace organic matter	SED4C00N
	0.0	ML		0.5 Brown SILT, trace fine sand, wet	SED4C 6"-12"
	0.0	ML		1 Brown SILT, trace fine sand, little woody organic debris, wet, slight organic odor	
2		ML		2 Brown SILT, trace fine sand, little woody organic debris, wet, slight organic odor	SED4C01N
	0.1	ML			
	0.0	ML			
4		ML		5 Brown SILT, trace fine to medium sand, micaceous, little woody organic debris, very moist, organic odor	SED4C03N
	0.7	ML			
	0.8	ML		5 Brown clayey SILT, lean, no plasticity, little fine to medium grain sand, well graded micaceous, moist	SED4C05N
6		ML			
	0.7	ML			
	0.8	ML			
8		ML		8 Brown clayey SILT, lean, low plasticity, little fine to medium grain sand, well graded micaceous, moist	SED4C07N
	1.1	ML			
10				10	SED4C 9'-10'

Remarks:

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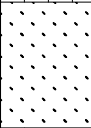
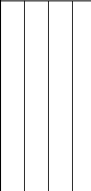
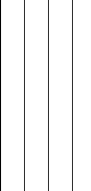
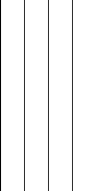
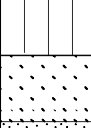
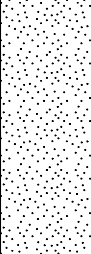
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449512.52 Easting: 1323400.33	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.41	Drilling Method: Vibracore
Start Date: 11/12/2013	Top of Sediment Elevation (ft MLLW): -6.99	Recovery (ft): 8.8
Finish Date: 11/12/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		Medium brown SILT underlain by light grey clay, varying density interface	SED5.5B00N
	0.3	ML		Brown SILT, trace organic matter, wet	SED5.5B 6"-12"
	0.7	ML		Brown sandy SILT, fine grain, micaceous, very moist to wet, slight organic odor	SED5.5B01N
	0.9	ML		Brown sandy SILT, fine grain, micaceous, little clay, no plasticity, moist	
4	0.4	ML		Brown clayey SILT, lean, low to no plasticity, trace fine micaceous sand, moist	SED5.5B03N
	0.4	CL		Gray/brown CLAY, lean, no plasticity, little fine grain micaceous sand, moist, organic odor	
6	2				SED5.5B05N
	0.4				
8	0.4				SED5.5B07N
	0.0	SW		Brown silty SAND, fine to coarse sand, poorly graded towards fine, micaceous, trace small gravel, very moist	
10	0.0	SW		Brown silty SAND, fine to coarse sand, well graded, micaceous, trace small gravel, wet	SED5.5B 9'-10'
	0.0				

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449411.76 Easting: 1323198.27	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.76	Drilling Method: Vibracore
Start Date: 11/8/2013	Top of Sediment Elevation (ft MLLW): -6.94	Recovery (ft): 8.5
Finish Date: 11/8/2013	Depth of Coring (fbm): 10.1	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT, some organic matter	SED5A00N
	0.4	SM		Brown silty SAND, micaceous, fine to medium grain, well graded, moist	SED5A 6"-12"
	0.3	ML		Brown SILT, little fine grain micaceous sand, wet	SED5A01N
2	0.4				
	0.8	ML		Brown sandy SILT, fine grain, micaceous, trace woody organic matter, wet	SED5A03N
4	3.3	ML		Brown clayey SILT, lean, no plasticity, little fine sand, moist, odor	SED5A05N
6	0.6				
	0.5	SM		Brown silty SAND, fine to medium grain, well graded, mica, little woody organic matter, very moist	SED5A07N
8	0.4	SP		SAND, fine to medium, poorly graded, little organic matter, moist	SED5A 9'-10'
	0.8				
	0.7				
10					

Remarks:

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

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449379.09 Easting: 1323266.89	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.69	Drilling Method: Vibracore
Start Date: 11/8/2013	Top of Sediment Elevation (ft MLLW): -8.51	Recovery (ft): 8.0
Finish Date: 11/8/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Medium brown SILT, trace leafy and woody organic matter	SED5B00N
	2.1	ML		Brown SILT, trace fine sand, wet	SED5B 6"-12"
2	2.8	ML		Brown sandy SILT, mica flakes, trace small gravel, woody organic matter	SED5B01N
	3.5	ML		Brown SILT, micaceous, lean clay, low to no plasticity, moist to wet	
4	1.6	ML		Brown SILT, micaceous, some sand, lean clay, low to no plasticity, moist to wet	SED5B03N
	4	SM		Brown silty SAND, fine to medium grain, well graded, moist	
6	0.9	CL		Brown silty CLAY, little fine sand, little mica flakes, no plasticity, moist to wet	SED5B05N
	0.7	CL		Gray to brown mottled sandy CLAY, fine grain, micaceous, lean, no plasticity, moist	
8	0.5	CL		Gray silty CLAY, lean, low to no plasticity, moist	SED5B07N
	0.8	CL			SED5B 9'-10'
10					

Remarks:

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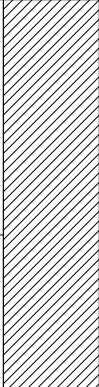
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449338.07 Easting: 1323337.14	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.17	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): -1.87	Recovery (ft): 9.8
Finish Date: 11/11/2013	Depth of Coring (fbm): 10.5	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT density interface at 4 below top of grab, small amount of staining observed	SED5C00N
	0.5	ML		Black SILT, wet, odor	SED5C 6"-12"
	2.7	ML		Black SILT, trace fine sand, wet	
2	2.2				SED5C01N
	1.8	ML		Black SILT, wet, odor	
4	1.6	ML		Brown clayey SILT, lean, no plasticity, trace fine micaceous sand, wet, odor	SED5C03N
	2.0	ML		Brown clayey SILT, lean, no plasticity, trace fine micaceous sand, very moist to wet	
6	1.8	ML		Brown clayey SILT, lean, no plasticity, trace fine micaceous sand, very moist to wet, odor	SED5C05N
	2.3				
8	2.1	SW		Brown SAND, fine to medium grain, micaceous, well graded, very moist to wet, odor	SED5C07N
	1.3	SW		Brown SAND, fine to medium grain, micaceous, well graded, trace lean clay, no plasticity, very moist to wet, odor	SED5C 9'-10'
10					

Remarks:

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



Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449649.36 Easting: 1323969.79	Drilling Company: N/A
Project #: 60287343	Water Surface Elevation (ft MLLW): NA	Drilling Method: Hand Augered
Start Date: 11/25/2013	Top of Sediment Elevation (ft MLLW): 1.69	Recovery (ft): 8
Finish Date: 11/25/2013	Depth of Coring (fbm): 8	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Dark brown/black SILT, some woody organic matter, little fine grain sand, moist, odor	SED6.5E00N
	0.0				SED6.5E 6"-12"
2	0.0	ML		Dark brown/black SILT, trace organic matter, little fine grain sand, moist, odor	SED6.5E01N
	0.0	ML		Brown clayey SILT, lean, no plasticity, very moist to wet, soft, odor	
4	0.0				SED6.5E03N
	2.8	CL		Brown silty CLAY, lean, no plasticity, medium stiff, wet	SED6.5E05N
6	0.0				
	1.1	CL		Brown silty CLAY, lean, no plasticity, stiff, wet	
8					

Remarks: Refusal at 8 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449707.18 Easting: 1323401.29	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.52	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -6.12	Recovery (ft): 7.0
Finish Date: 11/13/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	OL		Medium brown SILT and approximately 50% organic matter (leaves and twigs)	SED6A00N
	0.0	ML		Black SILT, detritus leaf matter, twigs, bivalve shells, some small gravel, saturated, strong organic odor	SED6A 6"-12"
	0.0	SM		Brown silty SAND, micaceous, fine to medium grain, well graded, trace small gravel, woody organic matter, wet, slight organic odor	
2		ML		Grayish brown SILT, little fine grain micaceous sand, wet	
	0.2				SED6A01N
	0.5	CL		Brown silty CLAY, lean, low to no plasticity, very moist, slight organic odor	
4					SED6A03N
	1.4	SC		Brown/black clayey SAND, lean, no plasticity, fine to medium grain, well graded moist	
	0.5				
6					SED6A05N
	0.2				

Remarks:

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Boring Log

BORING #: SED6B

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449687.44 Easting: 1323424.78	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -1.14	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -7.64	Recovery: (ft) 8.0
Finish Date: 11/13/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		Medium brown SILT with density interface at 2, fine sand below 2, few pieces of organic matter	SED6B00N
	0.4	ML		Brown sandy SILT, fine to medium grain, well graded, mica flakes, trace small gravels, little woody organic matter, odor	SED6B 6"-12"
	0.5				SED6B01N
4	2.4	ML		Brown clayey SILT, lean, no plasticity, trace fine micaceous sand, very moist to wet, odor	
	1.7				SED6BA03N
	2.2				
6	0.9	ML		Brown clayey SILT with fine to medium grain sand, well graded, lean, no plasticity, trace fine micaceous sand, very moist to wet	
					SED6B05N
8	0.5	SP		Tan-brown SAND, fine to coarse grain, poorly graded, mica flakes, wet	
		SP		Tan-brown SAND, fine to coarse grain, poorly graded, mica flakes, some organic woody matter, wet	
	0.3	SM		Brown silty SAND, fine to medium grain, well graded, very moist, odor	SED6B07N
	0.3				SED6B 9'-10'
10					

Remarks:

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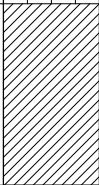
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449590.24 Easting: 1323525.05	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.96	Drilling Method: Vibracore
Start Date: 11/14/2013	Top of Sediment Elevation (ft MLLW): -1.84	Recovery (ft): 9.0
Finish Date: 11/14/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		Medium brown SILT, density interface at 2, fine sand at 2, few pieces of organic debris	SED6C00N
	0.4	ML		Brown SILT, trace fine sand, wet, slight organic odor	SED6C 6"-12"
	2.4				
4		ML		Black SILT, trace fine sand, trace woody organic matter, wet	SED6C01N
	6.3	ML		Grayish brown SILT, little fine sand, mica flakes, very moist, organic odor	SED6C 2'
	1.9				
6		CL		Brown silty CLAY, lean, low to no plasticity, trace fine grain sand, moist	SED6C03N
	2.2				
	0.8				
8		CL		Brown silty CLAY, lean, low to no plasticity, little fine grain sand, mica flakes, moist	SED6C05N
	0.3				
	0.2				
10					SED6C07N
	0.0				SED6C 9'-10'

Remarks:

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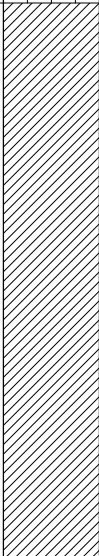
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449865.94 Easting: 1323906.87	Drilling Company: N/A
Project #: 60287343	Water Surface Elevation (ft MLLW): NA	Drilling Method: Hand Augered
Start Date: 11/25/2013	Top of Sediment Elevation (ft MLLW): 2.55	Recovery (ft): 6.8
Finish Date: 11/25/2013	Depth of Coring (fbm): 6.8	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Dark brown SILT, some organic matter and leafy debris, trace clay, lean, no plasticity, very moist, odor	SED7.5D00N SED7.5D 6"-12"
2	0.0	ML		1.5 Brown clayey SILT, lean, no plasticity, trace fine organic matter, very moist to wet, odor	SED7.5D01N
	0.0				
4	0.0	ML		4 Brown clayey SILT, lean, no plasticity, little fine grain sand, trace fine organic matter, wet	SED7.5D03N
	0.0				
6	0.0	CL		5.5 Brown/gray silty CLAY, lean, no plasticity, soft, odor	SED7.5D05N
	0.0				
				6.8	

Remarks: Refusal at 6.8 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449782.68 Easting: 1324043.58	Drilling Company: N/A
Project #: 60287343	Water Surface Elevation (ft MLLW): NA	Drilling Method: Hand Augered
Start Date: 11/25/2013	Top of Sediment Elevation (ft MLLW): 1.49	Recovery (ft): 9
Finish Date: 11/25/2013	Depth of Coring (fbm): 9	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Dark brown/black SILT, some organic matter, wet, organic odor	SED7.5E00N
	0.0				SED7.5.5E 6"-12"
2	0.0	ML		Dark brown/black SILT, less organic matter, moist, organic odor	SED7.5E01N
	0.0	ML		Dark brown/black SILT, organic matter, little fine to medium grain micaceous sand, well graded, moist, slight organic odor	
4	0.0				SED7.5E03N
	0.0				
6	0.9	CL		Brown silty CLAY, lean, low to no plasticity, medium stiff, trace organic matter, moist, slight organic odor	SED7.5E05N
	0.0				
8	0.0				SED7.5E07N
	0.0				

Remarks: Refusal at 9 fbm

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Boring Log

BORING #: SED7A

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449965.98 Easting: 1323526.84	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -1.14	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -3.94	Recovery (ft): 8.4
Finish Date: 11/13/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	OL		Medium brown SILT and organic matter (leaves and twigs)	SED7A00N
	0.0	SW		Tan and brown SAND, medium to coarse grain, well graded, micaceous, some bivalve shells, trace small gravel, moist to very moist, organic odor	SED7A 6"-12"
	0.0	ML		Brown clayey SILT, lean, no plasticity, trace fine sand, very moist to wet	SED7A01N
2	0.7				
	2.3				SED7A03N
4	3.7				
	5				
	3.1	CL		Dark brown silty CLAY, lean, no plasticity, moist	SED7A05N
6	0.7				
	7				
	1.0	CL		Dark brown silty CLAY, lean, no plasticity, some woody organic matter, very moist, odor	SED7A07N
8					
	8				
	3.3	CL		Dark brown silty CLAY, lean, no plasticity, some woody organic matter, very moist, odor	SED7A 9'-10'
10					

Remarks:

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Boring Log

BORING #: SED7B

Sheet 1 of 1

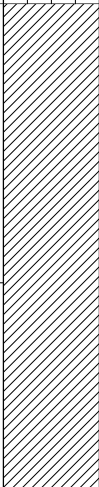
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449847.44 Easting: 1323647.81	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.11	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -2.31	Recovery (ft): 9.2
Finish Date: 11/13/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Medium brown SILT with density interface at 2, silt and clay at 2, few pieces of organic matter	SED7B00N
	0.0	ML		Brown SILT, little fine grain micaceous sand, trace small gravel, some woody organic matter, very moist to wet, organic odor	SED7B 6"-12"
2	1.6	ML		Black SILT, little fine grain micaceous sand, trace small gravel, some woody organic matter, very moist to wet, organic odor	SED7B01N
	1.3				
4	0.8	ML		Black SILT, little fine grain micaceous sand, trace small gravel, little lean clay, no plasticity, some woody organic matter, very moist to wet, organic odor	SED7BA03N
	0.4	CL		Grayish brown silty CLAY, lean, no to low plasticity, trace fine grain micaceous sand, moist, slight organic odor	
6	0.0	ML		Grayish brown clayey SILT, lean, no plasticity, moist	SED7B05N
	0.0				
8	0.0	ML		Grayish brown clayey SILT, lean, no plasticity, some fine to medium grain micaceous sand, well graded, moist,	SED7B07N
	0.0				
	0.0				
10					SED7B 9'-10'

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449789.58 Easting: 1323814.32	Drilling Company: N/A
Project #: 60287343	Water Surface Elevation (ft MLLW): NA	Drilling Method: Hand Augered
Start Date: 11/25/2013	Top of Sediment Elevation (ft MLLW): 2.26	Recovery (ft): 9.0
Finish Date: 11/25/2013	Depth of Coring (fbm): 9	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.0		ML		Dark brown SILT, some organic matter and leafy debris, trace micaceous fine to medium grain sand, well graded, very moist, odor	SED7D00N
0.0					SED7D 6"-12"
2.0					SED7D01N
4.0		ML		Dark brown SILT, some organic matter and leafy debris, trace micaceous fine to medium grain sand, well graded, trace clay, no plasticity, very moist, odor	SED7D03N
6.0		CL		Brown silty CLAY, lean, no plasticity, soft, trace organic matter, very moist to wet	SED7D05N
8.0	3.0	CL		Brown silty CLAY, lean, no plasticity, medium stiff, very moist to wet, odor	SED7D07N
8.75					
9.0					

Remarks: Refusal at 9 fbm

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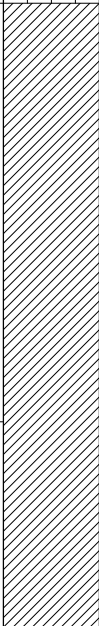
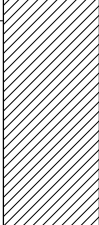


Boring Log

BORING #: SED7E

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 449728.24 Easting: 1323942.71	Drilling Company: N/A
Project #: 60287343	Water Surface Elevation (ft MLLW): NA	Drilling Method: Hand Augered
Start Date: 11/25/2013	Top of Sediment Elevation (ft MLLW): 1.7	Recovery: (ft) 6
Finish Date: 11/25/2013	Depth of Coring (fbm): 6	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
1.6		ML		Dark brown SILT, little organic matter, trace small gravel, fine to medium grain sand, well graded, wet, odor	SED7E00N
1.7					SED7E 6"-12"
2					SED7E01N
0.0					
3					
3.2		CL		Brown silty CLAY, lean, no palsticity, trace woody organic matter, very moist	SED7E03N
4					
0.0					
5					
3.5		CL		Brown silty CLAY, lean, no palsticity, trace woody organic matter, stiff, moist, no odor	SED7E05N
6					

Remarks: Refusal at 6 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449619.14 Easting: 1324216.84	Drilling Company: Normandeau Env.
Project #: 60287343	Water Surface Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 1/30/2014	Top of Sediment Elevation (ft MLLW): 1.59	Recovery (ft): 8.5
Finish Date: 1/30/2014	Depth of Coring (fbm): 10	Surface Sample Method: NA

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	SM		Black silty SAND, fine to medium grain, well graded, little lean clay, no plasticity, some small gravel, little woody organic matter, saturated	SED7G00N
			1		
	0.0	ML		Brown SILT, trace fine sand, mica flaking, trace lean clay, no plasticity, moist	
			1.5		
2	0.0	CL		Dark brown silty CLAY, lean, low to no plasticity, medium stiff, moist	SED7G01N
	0.0				
			3		
	0.0	SW		Brown SAND, fine to medium grain, well graded, micaceous, moist	
4	0.0				SED7G03N
	0.0				
			4.5		
	0.0	ML		Brown sandy SILT, fine to medium grain, micaceous, moist	
	0.0				
			5.5		
6	0.0	SM		Dark brown silty SAND, fine to coarse grain, well graded, micaceous, moist	SED7G05N
	0.0				
			7		
	0.0	SM		Dark brown silty SAND, fine to coarse grain, well graded, little lean clay, micaceous, moist	
	0.0	PT		Brown PEAT, little fine to medium sand, micaceous, wet, odor	
8					SED7G07N
	0.0	CL		Gray sandy CLAY, fine grain, micaceous, lean, no plasticity, little silt, very moist	
			8.5		

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450263.69 Easting: 1323863.72	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.14	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -8.34	Recovery (ft): 9.4
Finish Date: 11/13/2013	Depth of Coring (fbm): 10.2	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT with density interface @ 2". Few pieces of organic debris observed.	SED8.5B00N
	0.0	ML		Brown SILT, wet, smooth, organic odor	SED8.5B 6"-12"
	0.0	ML		Brown sandy SILT, fine grain micaceous sand, trace small gravel, very wet, slight organic odor	
2					SED8.5B01N
	0.0				
	0.7				
4		ML		Brown clayey SILT, little fine grain micaceous sand, lean, no plasticity, moist to very moist,	SED8.5B03N
	0.0				
	0.0	SM		Brown silty SAND, fine to medium grain, well graded, micaceous, very moist,	SED8.5B05N
6					
	0.0				
	0.0				
8		SM		Brown silty SAND, medium to coarse grain, well graded, micaceous, wet,	SED8.5B07N
	0.0				
10					SED8.5B 9'-10'

Remarks:

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Boring Log

BORING #: SED8C

Sheet 1 of 1

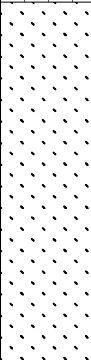
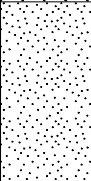
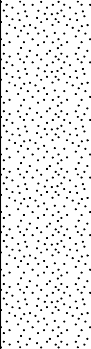
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450062.60 Easting: 1323810.54	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.14	Drilling Method: Vibracore
Start Date: 11/14/2013	Top of Sediment Elevation (ft MLLW): -1.56	Recovery: 8.3
Finish Date: 11/14/2013	Depth of Coring (ft MLLW): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		0.5 Medium brown SILT grading to medium brown silty clay	SED8C00N
	0.0	ML		Dark brown-gray SILT, wet, no odor	SED8C 6"-12"
	0.0				SED8C01N
4	0.7			3 Dark brown-gray SILT, little fine grain sand, trace leafy organic matter, wet, no odor	
	2.1	ML		4 Dark brown-gray SILT, little fine grain sand, trace leafy organic matter, moist, no odor	SED8C03N
6	1.9	ML		Dark brown-gray SILT, little fine grain sand, trace leafy organic matter, moist, no odor	
	1.7			6 Dark brown sandy SILT, fine to medium grain, well graded, micaceous, steel slag from 6' -6.25', very moist, no odor	SED8C05N
8	1.1	ML		7 Dark brown sandy SILT, fine to medium grain, well graded, micaceous, moist, no odor	
	1.0	ML			SED8C07N
10	0.7				SED8C 9'-10'

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450467.75 Easting: 1323894.15	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.2	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): -9.20	Recovery (ft): 6.4
Finish Date: 11/11/2013	Depth of Coring (fbm): 10.2	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT. No organic content at top of sample, some organic debris at bottom.	SED9B00N
	0.0	ML		Dark black/brown organic SILT, wet, organic odor	SED9B 6"-12"
	0.0	ML		Brown SILT, little fine sand, wet	
2					
	0.0	SM		Brown silty SAND, fine to medium grain, well graded, micaceous, very moist to wet	SED9B01N
	0.0				
4					
	2.4	SP		Brown SAND, fine to coarse grain, poorly graded towards coarse, trace clay, lean, no plasticity, trace small gravel, mica flakes, very moist	SED9B03N
	0.0	SP		Brown SAND, fine to coarse grain, poorly graded towards coarse, trace clay, lean, no plasticity, mica flakes, very moist	
6					
	0.0				SED9B05N

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450423.72 Easting: 1323961.98	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.13	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): -1.67	Recovery (ft): 8.3
Finish Date: 11/11/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT with density interface @ 2, small amount of organic debris (<5%).	SED9C00N
	0.2	ML		Brown SILT, little fine micaceous sand, wet, organic odor	SED9C 6"-12"
	0.0	SWW		Dark brown SAND, fine to medium grain, well graded, micaceous, wet, organic odor	SED9C01N
2					
	0.4	ML		Brown SILT, little fine micaceous sand, wet, no odor	
	1.6				
4					
	2.0	ML		Brown sandy SILT, fine grain, trace small gravel, wet, organic odor	SED9C03N
	4.1	ML		Brown sandy SILT, fine grain, little woody organic matter, trace small gravel, wet, organic odor	
6					
	3.2	ML		Brown sandy SILT mottled with black streaking, fine grain, little woody organic matter, trace small gravel, very moist to wet, petroleum odor	SED9C05N
	6.2	SM		Brown silty SAND, fine to medium grain, well graded, micaceous, very moist, slight petroleum odor	SED9C07N
8					
	4.1				
10					SED9C 9'-10'

Remarks:

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Boring Log

BORING #: SEDBACK1

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: Jeremy Joiner
Project: Benning Road Facility	Northing: 470680.54 Easting: 1333186.62	Drilling Company: N/A
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.90	Drilling Method: Hand Augered
Start Date: 12/3/2013	Top of Sediment Elevation (ft MLLW): -0.60	Recovery (ft): 1
Finish Date: 12/3/2013	Depth of Coring (fbm): 1	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	GW		Tan and brown GRAVEL, some fine to coarse grain, well graded sand, little silt, trace cobbles, saturated, no odor	SEDBACK100N
		GW		0.42 Tan and brown GRAVEL, some fine to coarse grain, well graded sand, little silt, saturated, no odor	
	0.0				SEDBACK1 6"-12"
1					

Remarks: Refusal at 1 fbm

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Boring Log

BORING #: SEDBACK11

Sheet 1 of 1


Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 446970.24 Easting: 1322284.05	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.06	Drilling Method: Vibracore
Start Date: 11/15/2013	Top of Sediment Elevation (ft MLLW): -2.54	Recovery (ft): 6.4
Finish Date: 11/15/2013	Depth of Coring (fbm): 7	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Light brown SILT grading to medium brown SILT	SEDBACK1100N
	0.0	ML		Dark brown SILT, trace leafy organic matter, wet, odor	SEDBACK11 6"-12"
	0.0				
2					
	0.0	ML		Dark brown SILT, trace leafy organic matter, trace lean clay, wet, odor	SEDBACK1101N
	0.6	ML		Black SILT, trace leafy organic matter, trace lean clay, wet, odor	
4					
	0.2	ML		Brown SILT, little organic matter, moist	SEDBACK1103N
	0.0	PT		Dark brown PEAT layer, some silt, trace lean clay, weathered woody organic matter, moist, odor	
6					
	0.0	PT		Dark brown PEAT layer, some silt, little sand, fine to medium, well graded, trace lean clay, weathered woody organic matter, moist, odor	SEDBACK1105N

Remarks: Refusal at 7 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 442914.41 Easting: 1320694.37	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.76	Drilling Method: Vibracore
Start Date: 11/14/2013	Top of Sediment Elevation (ft MLLW): -9.84	Recovery (ft): 7.0
Finish Date: 11/14/2013	Depth of Coring (fbm): 8.2	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.0		ML		Medium brown SILT grading to organic debris, sand, and small rounded gravel at 2.5	SEDBACK1300N
0.0		ML		0.5 Brown sandy SILT, fine to medium grain, well graded, some bivalve shells, trace small gravel, saturated, odor	SEDBACK13 6"-12"
0.9		ML		1 Brown sandy SILT, fine to medium grain, well graded, some woody organic matter, some bivalve shells, trace small gravel, saturated, odor	
0.9		SM		1.5 Black silty SAND, fine to coarse grain, poorly graded towards fine, trace small gravel, wet, odor	
1.7		ML		2.5 Gray clayey SILT, trace fine sand, lean, no plasticity, very moist	SEDBACK1301N
0.3		ML		3 Gray clayey SILT, trace fine sand, lean, no plasticity, moist	
0.1					SEDBACK1303N
0.0					
0.0					SEDBACK1305N
7					

Remarks: Refusal at 8.2 fbm

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Boring Log

BORING #: SEDBACK15

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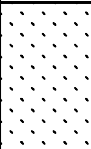
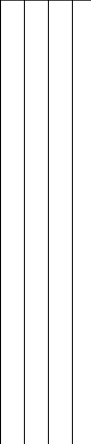
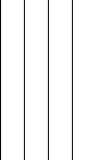
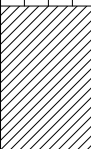



Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 439976.35 Easting: 1317502.26	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.21	Drilling Method: Vibracore
Start Date: 11/12/2013	Top of Sediment Elevation (ft MLLW): -6.01	Recovery (ft): 8.9
Finish Date: 11/12/2013	Depth of Coring (fbm): 10.2	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Light/medium brown SILT, approximately 50% small gravel, organic debris, and bivalve shells	SEDBACK1500N
	0.0	ML		Dark brown SILT, glass fragments, woody organic debris, some fine to medium sand, well graded, wet, odor	SEDBACK15 6"-12"
2	0.0				
	0.0	ML		Brown SILT, black woody, leafy organic matter, wet, odor	SEDBACK1501N
4	0.0	ML			
	0.0	ML		Brown SILT, wet	SEDBACK1503N
6	0.0				
	0.0	ML		Brown SILT, black woody, leafy organic matter, wet, odor	SEDBACK1505N
8	0.0	ML			
	0.0	ML		Dark brown sandy SILT, little lean clay, no plasticity, fine grain, micaceous, wet, odor	SEDBACK1507N
10	0.0				SEDBACK15 9'-10'

Remarks:

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
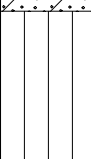
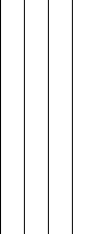
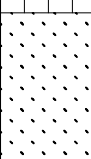


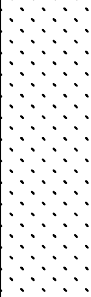
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 457920.60 Easting: 1329783.99	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.32	Drilling Method: Vibracore
Start Date: 11/14/2013	Top of Sediment Elevation (ft MLLW): -6.88	Recovery (ft): 4.0
Finish Date: 11/14/2013	Depth of Coring (fbm): 6.7	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	SM		Medium brown SILT and fine SAND, some organic debris	SEDBACK400N
	0.0	ML		Dark brown sandy SILT, fine to medium grain, well graded, wet, odor	SEDBACK4 6"-12"
	0.0				
2		ML		Dark brown sandy SILT, fine to medium grain, well graded, micaceous, wet, odor	SEDBACK401N
	0.0	CL		Grayish brown silty CLAY, lean, no to low plasticity, moist to very moist	
		CL		Brown CLAY, trace mica flakes, low plasticity, moist, odor	
	0.0	CL		Brown CLAY, trace mica flakes, low plasticity, some leafy organic matter, moist, odor	SEDBACK403N
		GW		Approximately 90% small to large GRAVEL, subrounded, trace to little coarse sand, trace silt, saturated	
4					

Remarks: Refusal at 6.7 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 454617.45 Easting: 1326967.67	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.11	Drilling Method: Vibracore
Start Date: 11/14/2013	Top of Sediment Elevation (ft MLLW): -5.29	Recovery (ft): 7.2
Finish Date: 11/14/2013	Depth of Coring (fbm): 10.1	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT underlain by fine to medium grain white sand, single bivalve observed	SEDBACK500N
	0.0	SW		Brown SAND, fine to coarse grain, well graded, some leafy organic matter, trace silt, wet, odor	SEDBACK5 6"-12"
2	0.0	ML		Brown sandy SILT, fine to medium grain, poorly graded towards fine, trace leaf fragments, wet	
	0.0	ML		Brown sandy SILT, fine to medium grain, poorly graded towards fine, wet, no odor	SEDBACK501N
4	0.0	SM		Brown silty SAND, fine to medium grain, well graded, mica flakes, very moist, no odor	SEDBACK503N
	1.3	CL		Brown silty CLAY, lean, no plasticity, moist, slight organic odor	
6	2.1	SM		Black brown SAND, some silt, fine to coarse grain, well graded, mica flakes, some woody organic matter, wet, slight organic odor	SEDBACK505N
	0.9				SEDBACK507N
8					

Remarks:

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Boring Log

BORING #: SEDBACK6

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 454054.19 Easting: 1326311.59	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.69	Drilling Method: Vibracore
Start Date: 11/15/2013	Top of Sediment Elevation (ft MLLW): -0.51	Recovery (ft): 9.7
Finish Date: 11/15/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Medium brown SILT, few pieces of organic debris.	SEDBACK600N
	0.0	ML		Dark brown SILT, trace fine micaceous sand, saturated	SEDBACK6 6"-12"
2	0.0				
	0.0	ML		Dark brown SILT, trace fine micaceous sand, some leafy organic matter, saturated, odor	SEDBACK601N
4	0.0	ML		Dark brown SILT, trace fine micaceous sand, trace lean clay some leafy organic matter, moist, odor	
	0.2	ML		Dark brown SILT, trace fine micaceous sand, trace lean clay some leafy organic matter, moist, odor	
6	0.3	ORG		Brown black sandy detritus layer, fine to coarse grain, well graded, trace small gravels, wet, odor	SEDBACK603N
		ML		Dark brown SILT, trace fine micaceous sand, trace lean clay some leafy organic matter, moist, odor	
	0.0	ML		Grayish brown clayey SILT, lean, no plasticity, trace mica flakes, moist to very moist	
8	0.0	ML		Grayish brown clayey SILT, some fine grain sand, lean, no plasticity, trace mica flakes, moist to very moist	SEDBACK605N
	0.0	PT		Brown and black peat layer, little silt, trace clay, some medium to coarse sand, well graded, weathered woody organic material, moist, odor	SEDBACK607N
	0.0				

Remarks:

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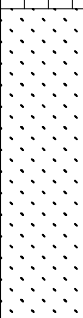
Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448582.42 Easting: 1323124.83	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.33	Drilling Method: Vibracore
Start Date: 11/15/2013	Top of Sediment Elevation (ft MLLW): -1.53	Recovery (ft): 8.7
Finish Date: 11/15/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0			0.5	WSED200N
	0.0	OL		Brown sandy SILT, fine to medium grain, poorly graded towards fine, some leafy organic matter, saturated, slight organic odor	WSED2 6"-12"
	0.0			2	
2					
	0.4	ML		2.5	WSED201N
		SM		2.83	
		PT		3.17	
	0.2	ML		Brown sandy SILT, fine to medium grain, poorly graded towards fine, trace mica flakes, some leafy organic matter, saturated, slight organic odor	
4					
	0.5			4.91	WSED203N
		PT		5.25	
	1.5	GW		Brown black silty GRAVEL, some medium to coarse sand, well graded, some black woody organic matter, trace lean clay, saturated, organic odor	
6				6.25	WSED205N
	1.1	ML		Brown sandy SILT, fine grain, micaceous, wet, slight organic odor	
	1.4				
8					
	2.5				
10				10	WSED2 9'-10'

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450167.52 Easting: 1323627.03	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.12	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -1.82	Recovery (ft): 8.8
Finish Date: 11/13/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Medium brown SILT with increasing fine sand, trace organic debris	SED8A00N
	0.0	ML		Brown SILT, wet to saturated, little fine to medium grain sand, well graded, some woody organic matter, odor	SED8A 6"-12"
1	0.0	ML		Brown sandy SILT, medium to fine grain, micaceous, well graded, little organic matter, odor	SED8A01N
	0.0	ML		Brown clayey SILT, lean, no plasticity, mica flakes, wet	
2	0.0	ML			SED8A03N
	0.0	ML			
4	1.1	SM		Tan/brown SILTY SAND, fine to medium grain, micaceous, well graded, trace small gravel, very moist to wet, odor	
	0.9				
6	0.0				SED8A05N
	0.0				
8	0.0	ML		Dark brown clayey SILT, lean, no plasticity, soft, moist	SED8A07N
	0.0	ML		Dark brown clayey SILT, lean, no plasticity, soft, some fine to medium grain sand, mica flakes, well graded, moist	
10	0.0				SED8A 9'-10'
	0.0				

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450586.65 Easting: 1324031.21	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.3	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): -1.60	Recovery (ft): 8.3
Finish Date: 11/11/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		0.5 Medium brown SILT transitioning to SILT with fine sand, some organic debris and bivalve shells	SED9.5B00N
	0.0	ML		Brown SILT, trace organic matter, wet, organic odor	SED9.5B 6"-12"
	0.2			2 Brown SILT, trace organic matter, woody debris, trace fine sand, wet, organic odor	SED9.5B01N
4	0.3	ML		3 Brown silty SAND, micaceous, fine to medium grain, well graded, wet, slight organic odor	
	0.2	SM		4 Brown sandy SILT, fine grain, wet, no odor	SED9.5B03N
6	0.6	ML		7 Mottled black/brown SILT, little lean clay, no plasticity, very moist to wet, petroleum odor	SED9.5B05N
	1.1				
	1.3				
8	1.7	SP		7.5 Brown micaceous SAND, fine to medium grain, poorly graded towards fine, moist to very moist, petroleum odor	SED9.5B07N
	7.2			10 10	SED9.5B 9'-10'

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 454054.19 Easting: 1326311.59	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.69	Drilling Method: Vibracore
Start Date: 11/15/2013	Top of Sediment Elevation (ft MLLW): -0.51	Recovery (ft): 9.7
Finish Date: 11/15/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Medium brown SILT, few pieces of organic debris.	SEDBACK600N
	0.0	ML		Dark brown SILT, trace fine micaceous sand, saturated	SEDBACK6 6"-12"
2	0.0				
	0.0	ML		Dark brown SILT, trace fine micaceous sand, some leafy organic matter, saturated, odor	SEDBACK601N
4	0.0	ML		Dark brown SILT, trace fine micaceous sand, trace lean clay some leafy organic matter, moist, odor	
	0.2	ML		Dark brown SILT, trace fine micaceous sand, trace lean clay some leafy organic matter, moist, odor	
4.25		ORG		Brown black sandy detritus layer, fine to coarse grain, well graded, trace small gravels, wet, odor	SEDBACK603N
	0.3	ML		Dark brown SILT, trace fine micaceous sand, trace lean clay some leafy organic matter, moist, odor	
6	0.0	ML		Grayish brown clayey SILT, lean, no plasticity, trace mica flakes, moist to very moist	
	0.0	ML		Grayish brown clayey SILT, some fine grain sand, lean, no plasticity, trace mica flakes, moist to very moist	SEDBACK605N
8	0.0	PT		Brown and black peat layer, little silt, trace clay, some medium to coarse sand, well graded, weathered woody organic material, moist	SEDBACK607N
	0.0				
10	0.0	SW		Brown SAND, fine to coarse grain, well graded, little small gravels, trace silt, wet	SEDBACK6 9"-10"

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450506.80 Easting: 1323815.06	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.05	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): -4.25	Recovery (ft): 6.6
Finish Date: 11/11/2013	Depth of Coring (fbm): 7	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	ML		Medium brown SILT, trace organic debris (<5% by volume)	SED9A00N
	0.2	ML		0.5 Brownish gray SILT, trace fine sand, little woody organic matter, wet to saturated, organic odor	SED9A 6"-12"
	0.7	ML		1 Brownish gray SILT, trace fine sand, trace woody organic matter, wet to saturated, organic odor	
2				2 Brown sandy SILT, micaceous, fine to medium grain, well graded, wet to saturated, organic odor	SED9A01N
	0.4	ML			
				3	
	0.2	SM		Brown silty SAND, fine to medium grain, poorly graded towards medium, little tan clay, no plasticity, slight petroleum odor	
4				4 Brown silty SAND, fine to medium grain, poorly graded towards medium, little tan clay, no plasticity, no odor	SED9A03N
	0.4	SM			
				5	
	0.2	SW		Brown SAND, fine to coarse grain, micaceous, well graded, little silt, wet to saturated, no odor	
6				6	
				6.25	
	0.1	PT		Leafy, woody detritus layer	SED9A05N
		SW		7 Grayish-brown SAND, medium to coarse grain, well graded, micaceous, some organic matter, trace small rounded gravel, wet, organic odor	

Remarks: Refusal at 7 fbm

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Boring Log

BORING #: SEDBACK12

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 444821.89 Easting: 1321502.15	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.18	Drilling Method: Vibracore
Start Date: 11/14/2013	Top of Sediment Elevation (ft MLLW): -1.12	Recovery (ft): 8.2
Finish Date: 11/14/2013	Depth of Coring (fbm): 9	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.0	ML		Medium brown SILT, few pieces of organic debris, single bivalve observed	SEDBACK1200N
	0.0	ML		0.5 Dark brown SILT, trace fine sand, very moist to wet, no odor	SEDBACK12 6"-12"
	0.0			3 Brown SILT, trace clay, lean, no plasticity, trace woody debris, very moist, no odor	SEDBACK1201N
4	0.7			3.5 Black and brown mottled SILT, trace clay, lean, no plasticity, trace woody debris, very moist, no odor	SEDBACK1203N
	1.1	ML		4.5 Black and brown mottled SILT, trace clay, lean, no plasticity, trace woody debris, very moist, slight petroleum odor	
	1.5	ML		5 Brown silty CLAY, lean, no plasticity, moist, no odor	
6	0.3	CL			SEDBACK1205N
8	0.1				SEDBACK1207N
				9	

Remarks: Refusal at 9 fbm

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 448403.78 Easting: 1323146.52	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 0.12	Drilling Method: Vibracore
Start Date: 11/15/2013	Top of Sediment Elevation (ft MLLW): -1.68	Recovery (ft): 9.5
Finish Date: 11/15/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Medium brown SILT on top 1 cm, underlain by fine sand and small pieces of leaves. Small black particles mixed into silt, most likely finely broken pieces of leaves. 50% recovery.	WSED100N
	0.1	ML		Brown SILT, leafy organic matter, very moist to wet, organic odor	WSED1 6"-12"
2	1.4	ML		Brown SILT, some fine to medium sand, well graded, leafy organic matter, wet, no odor	WSED101N
	1.2				
4	2.0	ML		Brown sandy SILT, fine to medium grain, poorly graded towards medium, some leafy organic matter, moist, no odor	WSED103N
	0.8	ML		Brown sandy SILT, fine to medium grain, poorly graded towards medium, mica flakes, some leafy organic matter, moist, organic odor	
6	0.4	SM		Black brown silty SAND, fine to medium grain, little woody organic matter, wet, slight organic odor	WSED105N
	0.6	ML		Brown SILT, mica flakes, trace fine sand, moist, no odor	
8	1.0				WSED107N
	1.7				WSED1 9'-10'
10					

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450738.10 Easting: 1324112.83	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.89	Drilling Method: Vibracore
Start Date: 11/11/2013	Top of Sediment Elevation (ft MLLW): 1.49	Recovery (ft): 9.1
Finish Date: 11/11/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification	
0						
2	0.0	ML		Medium brown SILT at top, gradual transition to fine sand at bottom of sampler. Small amount of organic debris (<5% by volume).	SED10C00N	
	0.0	ML		Brown SILT, little fine grain micaceous sand, trace small gravel, woody organic matter, wet	SED10C 6"-12"	
	0.0	ML		Brown SILT, little fine grain micaceous sand, trace small gravel, wet	SED10C01N	
4	0.0					
	0.1	SM		Brown silty SAND, fine to medium grain, well graded, micaceous, very moist to wet	SED10C03N	
	0.2	SM		Brown silty SAND, fine to medium grain, poorly graded towards fine grain, micaceous, wet		
6	1.4	ML		Brown sandy SILT, fine grain, micaceous, very moist	SED10C05N	
	1					
	0.8	PT			Layer of black woody organic matter, little silt	
8		ML		Brown SILT, little fine grain, micaceous sand, wet	SED10C07N	
	0.5					SED10C 9'-10'
10						

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 450124.44 Easting: 1323699.75	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.14	Drilling Method: Vibracore
Start Date: 11/13/2013	Top of Sediment Elevation (ft MLLW): -6.64	Recovery (ft): 9
Finish Date: 11/13/2013	Depth of Coring (fbm): 10	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Medium brown SILT with increasing fine sand, trace organic matter	SED8B00N
	0.0	ML		Brown SILT, some fine to medium grain micaceous sand, wet, organic odor	SED8B 6"-12"
2	0.0	SM		Brown silty SAND, fine to medium grain, micaceous, well graded, trace small gravel, very moist to wet, no odor	SED8B01N
	0.0	SM		Brown silty SAND with woody organic debris, fine to medium grain, micaceous, well graded, trace small gravel, wet, organic odor	
4	0.0	SM		Brown silty SAND, fine to medium grain, micaceous, well graded, trace small gravel, wet, organic odor	SED8B03N
	0.0	ML		Brown clayey SILT, lean, no plasticity, little fine to medium grain micaceous sand, moist, no odor	
6	0.0				SED8B05N
	0.0				
8	0.0	SM		Brown silty SAND, fine to coarse grain, well graded, trace lean clay, mica flakes, very moist, no odor	SED8B07N
	0.0				
10	0.0				SED8B 9'-10'

Remarks:

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Boring Log

BORING #: SEDBACK15

Sheet 1 of 1

Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 439976.35 Easting: 1317502.26	Drilling Company: ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): -0.21	Drilling Method: Vibracore
Start Date: 11/12/2013	Top of Sediment Elevation (ft MLLW): -6.01	Recovery (ft): 8.9
Finish Date: 11/12/2013	Depth of Coring (fbm): 10.2	Surface Sample Method: Ponar

Depth (ft lbs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.5	0.0	ML		Light/medium brown SILT, approximately 50% small gravel, organic debris, and bivalve shells	SEDBACK1500N
	0.0	ML		Dark brown SILT, glass fragments, woody organic debris, some fine to medium sand, well graded, wet, organic odor	SEDBACK15 6"-12"
2	0.0				
	0.0	ML		Brown SILT, black woody, leafy organic matter, wet, organic odor	SEDBACK1501N
4	0.0	ML		Brown SILT, wet, no organic odor	
	0.0	ML			SEDBACK1503N
6	0.0	ML		Brown SILT, black woody, leafy organic matter, wet, organic odor	
	0.0	ML			SEDBACK1505N
8	0.0	ML		Dark brown sandy SILT, little lean clay, no plasticity, fine grain, micaceous, wet, organic odor	
	0.0				SEDBACK1507N
10	0.0				
	0.0				SEDBACK15 9'-10'

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 449651.75 Easting: 1323798.17	Drilling Company: Normandeau Env.
Project #: 60287343	Water Surface Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 11/25/2013	Top of Sediment Elevation (ft MLLW): 2.46	Recovery (ft): 8.2
Finish Date: 1/29/2014	Depth of Coring (fbm): 10	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	OL		Dark brown SILT, lots of woody organic matter, wet, organic odor	SED6.5D00N
	1.6				SED6.5D 6"-12"
2					
	0.0	ML		Brown clayey SILT, lean, no plasticity, little fine to medium grain sand, well graded, moist, organic odor	SED6.5D01N
	2.2	ML		Brown clayey SILT, lean, no plasticity, little fine to medium grain sand, well graded, trace small gravel, moist, organic odor	
		SM		Brown silty SAND, fine to coarse grain, well graded, some small gravel, wet, organic odor	
4					
	0.6	ML		Grayish light brown clayey SILT, lean, no to low plasticity, soft, moist	SED7.5D03N
	0.5				
6					
	0.5	ML		Grayish light brown clayey SILT, lean, no to low plasticity, soft, micaceous, trace fine sand, moist	SED7.5D05N
	0.4	ML		Dark brown clayey SILT, lean, no to low plasticity, soft, micaceous, trace fine sand, moist	
8					
	0.5	ML		Dark brown clayey SILT, lean, no plasticity, trace to fine micaceous sand, moist	SED7.5D07N

Remarks:

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 465951.44 Easting: 1327084.09	Drilling Company: Normandeau Env.
Project #: 60287343	Water Surface Elevation (ft MLLW): 1.19	Drilling Method: Vibracore
Start Date: 12/3/2013	Top of Sediment Elevation (ft MLLW): -1.81	Recovery (ft): 1.6
Finish Date: 1/31/2014	Depth of Coring (fbm): 2.8	Surface Sample Method: Hand Augered

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	SW		Brown SAND, fine to medium, well graded, mica flaking, little small gravel, little silt, saturated, no odor	SEDBACK200N
				0.67	
	0.0	GW		Gray and brown GRAVEL, little fine to medium sand, well graded, trace silt, saturated, no odor	SEDBACK2 6"-12"
				1	
	0.0	SW		Dark gray SAND with silt, fine to medium grain, very tight, trace gravel, moist	SEDBACK201N
				1.6	

Remarks: Refusal at 2.8'

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Client: PEPCO	Location: 3400 Benning Road, Washington, DC, MD	Logged By: David Smith/Jeremy Joiner
Project: Benning Road Facility	Northing: 462717.77 Easting: 1329107.33	Drilling Company: Normandean Env./ASI
Project #: 60287343	Water Surface Elevation (ft MLLW): 2.46	Drilling Method: Vibracore
Start Date: 11/15/2013	Top of Sediment Elevation (ft MLLW): -0.44	Recovery (ft): 2.9
Finish Date: 1/30/2014	Depth of Coring (fbm): 4.5	Surface Sample Method: Ponar

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.0	SM		White SAND mixed with medium brown SILT, coarse grain sand, small rounded gravel	SEDBACK300N
			0.5		
	0.0	GW		50% GRAVEL, small to large, subrounded, brown coarse sand, mica flakes, trace woody organic matter, saturated, odor	SEDBACK3 6"-12"
	0.0				
2					
		SP		60% SAND, 40% gravel, small to large, subrounded, brown coarse sand, mica flakes, trace woody organic matter, some mollusk shells, trace silt, saturated	SEDBACK301N
			2.25		
	0.0	GW		80% GRAVEL, 20% sand, small to large gravel, subrounded, brown coarse sand, mica flakes, trace woody organic matter, some mollusk shells, trace silt, saturated	
			2.75		
		CL		Mottled red and white lean CLAY, low plasticity, stiff, slightly moist	
			3.6		
	0.0	CL		Reddish-brown sandy CLAY, fat, low to medium plasticity, firm, trace small gravel, moist	SEDBACK303N
			4.5		







Remarks: Refusal at 4.5'

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**Phase II
Landside Investigation
Boring Logs**


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448586.01 Easting: 1324467.62	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/2/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/2/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	SPG		0.2 Stone cover	0-1
		0.0	SM		1 Black SAND and GRAVEL, coarse, some rocks, dry, trace metal debris	
2		0.0	SM		2 Red brown, silty SAND, medium to coarse, some rocks and concrete fragments, dry	
		0.0	SP		3 Brown SAND, medium to coarse, some silt, trace gravel, dry	
		0.0	SP		4 Brown SAND, medium to coarse, some silt, trace gravel, moist	
4		0.0	SM		5 Red brown, silty SAND, medium to coarse, moist	

Remarks:

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449144.99 Easting: 1324617.65	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/4/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	10.7	SPG		0.2 Large stone cover	
					1 Black SAND and GRAVEL, coarse, dry, loose, slight fuel-like odor	
34.3		SPG	2 Black SAND and GRAVEL, coarse, dry, loose, slight fuel-like odor	1-2		
77.9		SP	3 Brown SAND, medium to coarse, trace gravel, some dark gray silty clay (possibly stained) intermixed, strong fuel-like odor, moist	2-3		
27.2		GP	4 Dark gray/brown GRAVEL and stones (1/2 - 1"), large, slight fuel-like odor, moist			
4		8.7	GP	5 Dark gray/brown GRAVEL and stones (1/2 - 1"), large, slight fuel-like odor, moist		

Remarks:

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








Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 1324615.28 Easting: 449151.16	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/4/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	14.7	SPG		0.2 Large stone cover	
					1 Black SAND and GRAVEL, large, compact, dry	
2		28.5	SP		2 Black SAND, coarse, some stones (1/4 - 1/2"), compact, dry	1-2
		25.2	SP		3 Black/brown SAND, coarse, some gravel and stones (1/4 - 1/2"), strong petroleum-like odor, possible staining, moist	
		118.7	SP		4 Black/brown SAND, coarse, some gravel and stones (1/4 - 1/2"), strong petroleum-like odor, possible staining, moist	
4		44.0	SP		5 Black/brown SAND, coarse, some gravel and stones (1/4 - 1/2"), trace gray silty clay intermixed, possible staining, moist	

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing:	Easting:
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/2/2017	Drilling Method: DPT	Total Depth (ft): 18
Finish Date: 3/3/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
2	5.0	0.0	MLS		Brown sandy SILT with trace small subround gravel, somewhat moist, somewhat loose, soft		
			MLS		Orange/brown sandy SILT with trace gray clay, somewhat moist, somewhat firm, somewhat loose		
			MLS		Orange/brown sandy SILT, somewhat moist, somewhat compact		
4			SM		Orange/brown silty SAND, fine, some coarse sand, loose, somewhat moist		
			SM		Orange and gray silty SAND, fine, very loose, somewhat moist, soft		
6	3.8	0.0	SW		Very pale brown yellowish SAND, fine to coarse, angular, clay at 5.3-5.5 ft. and 8.3-8.5 ft., brown, yellowish brown, sandstone gravel at 8.3 ft., dry		
8							
10							
12	3.8	0.0	SW		Very pale brown yellowish SAND, fine to coarse, angular, sandstone gravel at 11-11.8 ft., moist at 11.2-11.8 ft.		
			CH				Brownish yellow mottled light gray CLAY, stiff, high plasticity, dry
14							
16	3.0	0.0	SW		Very pale brown yellowish SAND, fine to coarse, angular, very dry		
18							

Remarks:

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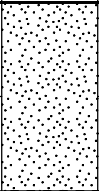
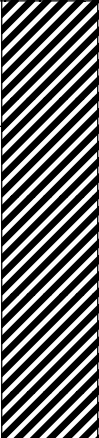
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing:	Easting:
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/2/2017	Drilling Method: DPT	Total Depth (ft): 30
Finish Date: 3/2/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
1	5.0	0.0	MLS		Brown sandy SILT, trace small round gravel, somewhat moist, somewhat firm, trace organic root debris, somewhat loose	
2			MLS		Brown sandy SILT, trace gravel, small, round, somewhat moist, firm, somewhat loose to compact	
3			MLS		Brown sandy SILT, somewhat moist, loose, somewhat soft	
4			SM		Brown silty SAND, somewhat moist, loose, somewhat soft	
5			SP		Brown SAND with trace silt, loose, moist, soft	
6	2.8	0.0	SW		Orangish brown, yellowish brown, white SAND, fine to coarse, angular, dry	
10			SW		Orangish brown, yellowish brown, white SAND, fine to coarse, angular, dry	
10.8			CL		Orangish brown, red, gray, sandy CLAY, soft, sand, coarse, low plasticity, some sandstone gravel present throughout	
11.7			SP		Orangish, reddish brown SAND, coarse, soft, dry	
15	2.6	0.0	SP		Orangish, reddish brown SAND, coarse, soft, dry, more clay content, orangish brown	
17			SP		Very dark greyish brown SAND, fine, loose to medium dense, moist	
20						

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing:	Easting:
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/2/2017	Drilling Method: DPT	Total Depth (ft): 30
Finish Date: 3/2/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20	3.8	0.0	SP		Brownish yellow SAND, fine, angular, medium dense to dense, moist	
22			SP		21.5 Yellowish brown SAND, fine, dense, moist, sandstone cobble at 22.6 ft., moist	
24			CH	23 Orangish brown, red, gray CLAY, medium stiff, high plasticity		
26	5.0	0.0	CH		25 Orangish brown, red, gray CLAY, medium stiff, high plasticity, moist at 28.6-28.9 ft.; sand, fine, grey and white at 29.4-30 ft., Arundel	
28						
30						

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445123.10 Easting: 1320862.14	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 11
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/30/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		TOPSOIL		0.3 Topsoil and grass	
			SC		Dark brown sandy LOAM, soft, organic material (roots)	
2			SP		Brown SAND, fine to medium, some small gravel, small stones (1/4-1/2"), mixed throughout, moist	
4			SM		Brown silty SAND, some small gravel, fine to medium sand, moist	
			SM		Brown silty SAND, some small gravel, fine to medium sand, saturated, large stones (>1")	
6	5.0	0.0	SM		Brown silty SAND, tight, trace small stones, dry to moist	
8			FILL		8.33 Brown/black, crushed rock and stone, large gravel, dry	
			SM		Brown silty SAND, tight, trace small stones, dry to moist	
10			SP		9.16 Gray SAND, medium, some silt, tight, moist	
			SP		10 Gray SAND, medium, some silt, tight, brick fragments throughout, glass, moist	
12	1.0	0.0	FILL		10.83 Large crushed stone	
			SPG		Brown/gray GRAVEL and SAND, large, silty, medium grained sand, some stones (<1/2"), saturated	
14	1.6	0.0				
16						
18			SM		18 Brown silty SAND, some large gravel, large stones (1/2-1"), saturated, soft	16-20
20						

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs and 42 - 46 ft bgs

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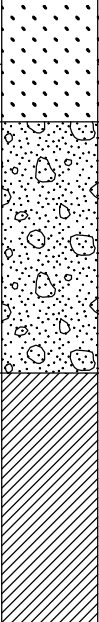
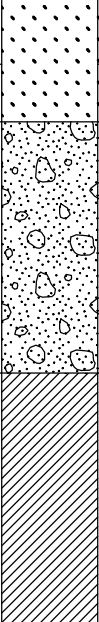
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Project: Benning Road Facility	Northing: 445123.10 Easting: 1320862.14	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 11
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/30/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	1.0	0.0	SM		Brown silty SAND, some large gravel, large stones (1/2-1"), saturated, soft <i>(continued)</i>	
24						
26						
28	2.0	0.0				
30						
32	2.0	0.0				
34						
36			SM		Brown/gray silty SAND, some large gravel, large stones (1/2-1"), saturated, soft	
38	3.3	0.0				
40			SM		Brown silty SAND, some large gravel, large stones (1/2-1"), saturated, soft	

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs and 42 - 46 ft bgs

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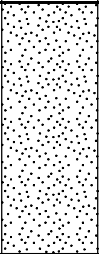
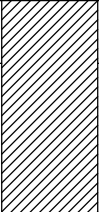
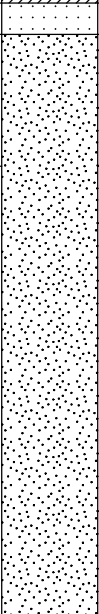
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445123.10 Easting: 1320862.14	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 11
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/30/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
40	2.3	0.0	SM		Brown silty SAND, some large gravel, large stones (1/2-1"), saturated, soft <i>(continued)</i>	
42			SM		41.08 Dark gray/black silty SAND, soft, moist	
44			SPG		42 Dark gray GRAVEL and SAND, large, coarse, saturated	42-46
46	3.5	0.0	CL		46 Red/gray CLAY	
48						
50						50

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs and 42 - 46 ft bgs

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

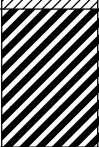
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 446794.67 Easting: 1328627.63	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 9
Start Date: 3/7/2017	Drilling Method: DPT	Total Depth (ft): 25
Finish Date: 3/7/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SP		Orangish brown SAND, fine, some coarse, loose, dry	
4			CL		Greyish brown silty CLAY, high plasticity, dry, stiff and soft	
6	4.5	0.0	CL		Orangish brown gray mottled sandy silty CLAY, stiff, high plasticity, moist	
8			SANDSTONE		Dark red sandstone, weathered, brittle, fine grain	
10			SP		Orangish brown SAND, very fine, compact, very moist at 9 ft., dense	
12	4.5	0.0	SP		Orangish brown and brown SAND, very fine, compact, dense, very moist throughout	
18			CL		Dark brownish yellow, sandy silty CLAY, high plasticity, soft, dry	
20			SC		Brown SAND, coarse, mottled gray clay, dry	

Remarks: Groundwater Sample Collected: 15 - 19 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 446794.67 Easting: 1328627.63	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 9
Start Date: 3/7/2017	Drilling Method: DPT	Total Depth (ft): 25
Finish Date: 3/7/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20	4.6	0.0	SP		Orangish brown and brown SAND, coarse, dense, moist, grey clay at 20.6-20.8 ft.	
22			CL		Gray red mottled sandy CLAY, stiff, dense, coarse sand, sandstone gravel at 21.3 ft., moist	
24			CH		Grey, dark grey, dark red CLAY, very stiff, high plasticity, dry, Arundel	

Remarks: Groundwater Sample Collected: 15 - 19 ft bgs

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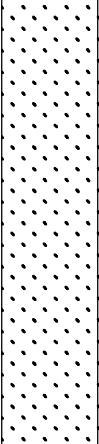
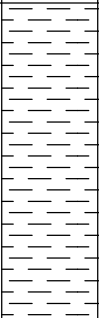
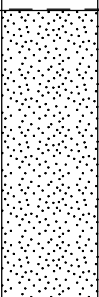
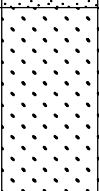
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 444160.27 Easting: 1320555.10	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 15
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/29/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	TOPSOIL		0.3 Topsoil and grass	
			SC		1 Dark brown sandy LOAM, medium, orange material (roots), some gravel, dry	
2			SM		2 Brown silty SAND, medium, some gravel and small stones (<1/2"), broken porcelain and metal pieces, moist	
			SM		3 Brown silty SAND, medium, some gravel and small stones (<1/2"), broken porcelain and metal pieces, broken glass, dry	
			SP		3.3 Brown SAND, medium, trace gravel, trace small stones, trace brick fragments	
4			CL		4 Brown silty CLAY, tight, moist	
			SM		5 Brown silty SAND, saturated, some small gravel	
6	4.8	0.0	GP		Black/brown/gray GRAVEL, large, silty sand, oyster shells, brick, concrete, moist	
8						
10						
					10 No Recovery	
12	0.0					
14						
16						
18						
20					20	

Remarks: Groundwater Sample Collected: 20 - 24 ft bgs and 40 - 44 ft bgs

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

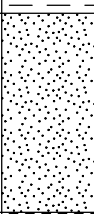
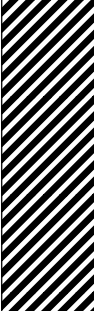
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 444160.27 Easting: 1320555.10	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 15
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/29/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	1.0	0.0	SM		Dark gray silty SAND, medium sands, saturated, possible sheen, soft	20-24
24						
26	2.1	1.0	OL		Dark gray SILT, no sands, moist, soft	
28						
30						
32	2.5	0.0	SP		Dark gray SAND, medium, moist	
34						
36	0.0		SM		Dark gray silty SAND, medium sands, moist, soft	
38						
40						

Remarks: Groundwater Sample Collected: 20 - 24 ft bgs and 40 - 44 ft bgs

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
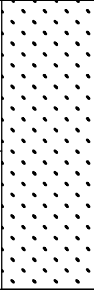
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 444160.27 Easting: 1320555.10	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 15
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/29/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
40	2.1	0.0	SM		Dark gray silty SAND, medium sands, moist, soft (<i>continued</i>)	40-44	
42			SPG		40.83 Dark brown GRAVEL and SAND, some stones (<1/2"), saturated		
			OL		41.25 Dark gray SILT, moist, tight		
			SP		41.83 Dark gray SAND, medium, some silt, moist		
44							
45					Arundel CLAY		
46	5.0	0.0	CH				
48							
50							

Remarks: Groundwater Sample Collected: 20 - 24 ft bgs and 40 - 44 ft bgs

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449465.76 Easting: 1325160.10	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/23/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/23/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	PT		0.4 Grass roots, topsoil	
2		0.0	SM		Brown silty SAND, fine, little small to large subrounded gravel, little cobbles, trace fill (plastic, glass, slag, brick), moist, little boulders	
4		0.8	SM		2.8 Dark grayish brown silty SAND, fine, little small to large subrounded gravel, little cobbles, trace fill (coal, glass), faint odor, moist	
					5	

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs and 46 - 50 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449445.87 Easting: 1325283.62	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 25
Start Date: 8/18/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/24/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
0	5.0	0.0	FILL		0-2" soil, mulch; 2-17" asphalt	
1.4			SPG		Light tan SAND and GRAVEL, coarse, large, broken glass, concrete fragments, dry	
2			SPG		Light tan SAND and GRAVEL, coarse, large, broken glass, concrete fragments, brick fragments and small stones (<1/2"), dry	
3			SP		Tan SAND, medium to coarse, brick fragments, trace gravel, dry	
4			SPG		Black SAND and GRAVEL, medium to coarse, dry	
5	1.2	0.0	FILL		Fill, black, gray, crushed rock and stone, brick fragments, glass, dry	
6						
8						
10	1.1	0.0				
12						
14						
15	0.0	0.0	NO CORE		No recovery	
16						
18						
20						

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs, 24 - 28 ft bgs and 46 - 50 ft bgs

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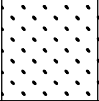
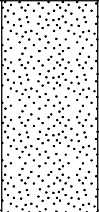
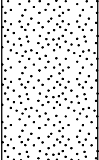

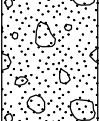
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449445.87 Easting: 1325283.62	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 25
Start Date: 8/18/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/24/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20			SP-OL		Black SAND and SILT coarse, some small stones (<1/2"), saturated; 10-21" Gray silt, some very fine sand, trace small gravel, moist	
22	1.8	0.0				
24						
25						
25.5			OL		Gray SILT, some very fine sand, trace small gravel, saturated	
26			SPG		Brown SAND and GRAVEL, coarse, small, some small stones (<1/2"), saturated	
27.5						
28	3.8	0.0	CL		Gray silty CLAY, compact, moist	
30			CL		Gray silty CLAY, compact, moist	
31.33						
32	5.0	0.0	CL		Gray silty CLAY, trace fine sands, compact, moist	
34						
35			CL		Gray silty CLAY, trace fine sands, compact, moist	
36						
37.25			SM		Gray silty SAND, medium grained, increasing sands, saturated	
38	5.0	0.0	SP		Gray/light brown SAND, fine to medium, saturated	
38.5						
40						

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs, 24 - 28 ft bgs and 46 - 50 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449445.87 Easting: 1325283.62	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 25
Start Date: 8/18/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/24/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
40						
42	2.7	0.0	SM		Gray silty SAND, medium grained, increasing sand, saturated	
44			SP		Gray SAND, medium to coarse, trace small gravel, saturated	41.66
46	4.0	0.0	SP		Gray SAND, medium to coarse, trace small gravel, saturated	45
48			CL		Clay	47.66
50			SPG		Gray SAND and GRAVEL, coarse and large, some small stones (<1/2"), saturated	47.83

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs, 24 - 28 ft bgs and 46 - 50 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449323.38 Easting: 1325465.16	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10.2
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/21/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	5.0	0.0	TOPSOIL		0.3 Mulch, pine needles		
			SP		Dark brown SAND, fine to medium, roots, dry		
2			SP		Brown SAND, medium, trace small stones (<1/2"), dry		
			SPG		Black SAND and GRAVEL, fine, small, broken glass, dry		
			SP		Brown SAND, fine, dry		
4			SP		Orange-brown SAND, medium, trace silt, slight moist		
	3.2	0.0	SP		Brown SAND, medium to coarse, some small stones (<1/2"), dry		
6							
8							
10							
	2.6	0.0	SP		10-16 Dark brown SAND, coarse, trace gravel, trace small stones (<1/2"), moist Dark brown SAND, coarse, trace gravel, trace small stones (<1/2"), saturated		
12			SP		11.41 Orange-brown SAND, coarse, some gravel, trace small stones (<1/2"), saturated		
14							
16			SPG		15.58 Orange-brown SAND and GRAVEL, coarse, large, trace small stones (<1/2"), saturated;		
			SM		16.16 Orange-brown silty SAND, moist, medium hardness;		
			CL		Gray, clay, soft, small containing layer;		
18	3.1	0.0	SM		17.33 Gray-brown silty SAND, medium hardness, moist;		
			SPG		17.91 Orange-brown SAND and GRAVEL, coarse, large, some stones (1/4-1/2"), saturated		
20							

Remarks: Groundwater Sample Collected: 12 - 16 ft bgs and 46 - 50 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449323.38 Easting: 1325465.16	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10.2
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/21/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	3.2	0.0	SPG		Orange-brown SAND and GRAVEL, coarse, large, some stones (1/4-3/4"), saturated, stones increases with depth	
24						
26	4.2	0.0	SPG		Orange-brown SAND and GRAVEL, coarse, large, some stones (1/4-3/4"), saturated, stones increases with depth;	
28			CL		Gray, clay with some silt, medium hardness, low plasticity, dry, hardness increases with depth	
30			CL	Gray, clay with some silt, medium hardness, low plasticity, dry, hardness increases with depth		
32	5.0	0.0	CL			
34						
36	5.0	0.0	SM		Gray, silty sand, very fine sand, soft, moist	
38						
40						

Remarks: Groundwater Sample Collected: 12 - 16 ft bgs and 46 - 50 ft bgs

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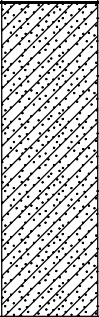
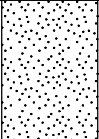
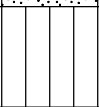


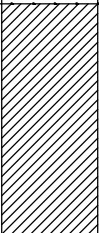
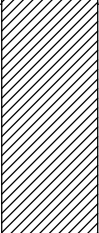
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449323.38 Easting: 1325465.16	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10.2
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 50
Finish Date: 8/21/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
40	4.2	0.0	OL		Gray, silt, trace very fine sand, soft, moist	
42			SP		Gray SAND, fine to medium, trace small gravel, saturated	
44	3.0	0.0	SP		Gray SAND, fine to medium, trace small gravel, saturated	
46			WOOD		Decomposed wood, tree	
48			SPG		Gray SAND and GRAVEL, coarse, large, large stones (>1"), saturated	
50						

Remarks: Groundwater Sample Collected: 12 - 16 ft bgs and 46 - 50 ft bgs

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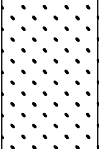
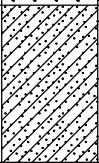

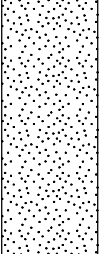


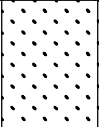
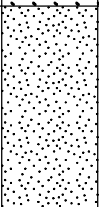
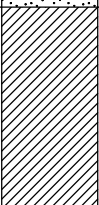
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449363.66 Easting: 1323505.30	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 8.9
Start Date: 4/7/2017	Drilling Method: DPT	Total Depth (ft): 20
Finish Date: 4/20/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0		SC		Orangish brown clayey SAND, fine to medium, soft, dense, low plasticity, moist	0-1
4						
6	4.1	0.0	SP		Brown SAND, fine to medium, some silt, dry, soft	5-6
8			ML		Brown SILT with sand, fine, soft, moist	
10			SM		Gray silty SAND, soft, moist to wet	
12	4.8	0.0	SM		Gray silty SAND, soft, moist to wet	10-11
14			CL		Gray silty CLAY, high plasticity, with trace sand, soft, moist	
16	3.7	0.0	CL		Gray silty CLAY, high plasticity, with trace sand, soft, moist	15-16
18						
20						

Remarks: Groundwater Sample Collected: 8 - 15 ft bgs

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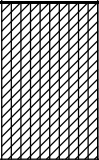
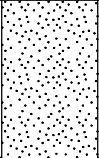

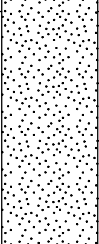

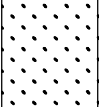
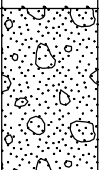
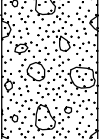
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448717.63 Easting: 1323341.50	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10.4
Start Date: 4/7/2017	Drilling Method: DPT	Total Depth (ft): 20
Finish Date: 4/21/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0		SM		Orangish brown and brown SILT and SAND, some clay, sand, fine, loose, dense, medium plasticity, moist	0-1
4			SC		Dark brown with some orangish brown clayey SAND, fine, dense, soft, medium plasticity, moist to wet	
6	2.4	0.0	SM		Dark brown silty SAND, moist, soft	5-6
8			SP		Dark gray SAND, fine, trace silt, moist, trace gravel, some cobbles (1/2 in.)	
10	4.1	0.0	SP		Dark gray SAND, fine, trace silt, moist, trace gravel, some cobbles (1/2 in.)	10-11
12			SPG		Black SAND and GRAVEL, coarse, trace silt, saturated to wet	
14			SM		Gray silty SAND, soft, wet	
16			SP		Gray SAND, fine, some silt, tight, wet	15-16
18	5.0	0.0	CL		Gray silty CLAY, high plasticity, moist, sand lens at 18.2 to 18.3 ft.	
20						

Remarks: Groundwater Sample Collected: 10 - 14 ft bgs

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448663.73 Easting: 1323559.22	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10.3
Start Date: 4/7/2017	Drilling Method: DPT	Total Depth (ft): 17.1
Finish Date: 4/21/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0		CL-ML		Brown and light brown SILT and CLAY, soft, medium plasticity, dry	0-1
4			SP		Orangish brown and light brown SAND, medium, loose, moist at 5 ft.	
6	1.4		SP		Brown SAND, medium to coarse, some silt, some cobbles (1/2-1 in.), moist	5-6
8			SP		Dark brown SAND, medium to coarse, some silt, some cobbles (1/2-1 in.), moist	
10			SP		Dark brown SAND, medium to coarse, some silt, some cobbles (1/2-1 in.), moist	
12	3.2		SM		Brown silty SAND, very soft, saturated	10-11
14			SPG		Brown SAND and GRAVEL, coarse, some cobbles (1/2-1 in.), saturated	
16	2.1		SPG		Brown SAND and GRAVEL, coarse, some cobbles (1/2-1 in.), saturated	15-16

Remarks: Groundwater Sample Collected: 15 - 19 ft bgs

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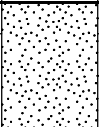
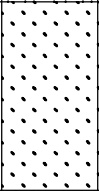
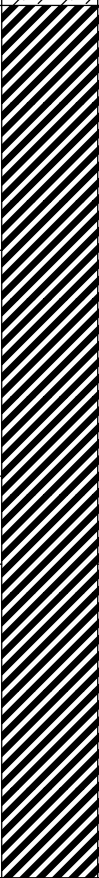
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 453387.05 Easting: 1319864.18	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/28/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	TOPSOIL		0.5 Leaves	0-1
			TOPSOIL		Dark brown, topsoil, loose, roots and organic material, moist	
4	4.0	0.0	SM		2 Orange silty SAND, tight, moist, organic material	3-4
			SP		3 Light tan/white SAND, fine, trace silt, dry, brittle, tight	
		0.0			4	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 447619.60 Easting: 1328627.26	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/28/2017	Drilling Method: DPT	Total Depth (ft): 23
Finish Date: 3/2/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SP		0.5 Dark brown topsoil with SAND, coarse, moist, rocks, organic materials, loose	0-1
		0.0	SP		Brown SAND, medium to coarse, moist, loose, organic material	
4		0.0	SM		Light tan/white silty SAND, tight, brittle	3-4
6			SW		5 Yellowish brown and gray mottled SAND, fine to coarse, some interbedded grey and white, yellowish brown clay, some sandstone gravel at 5.2-5.3 and 5.8-6.1 ft., moist at 5.1-5.3 ft.	
8			CH		6.1 Reddish brown, red, orangish brown CLAY, stiff to soft, high plasticity, silt 7.8-10 ft. interbedded	
10			CH		10 Yellowish brown, gray, mottled red CLAY, silty, medium stiff, dry, high plasticity	
14			CH		13.6 Dark brown, mottled gray and red CLAY, stiff, high plasticity, dry	
16			CH		15 Reddish brown, mottled gray CLAY, very stiff, dry, high plasticity	
20					20	

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
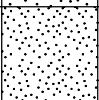
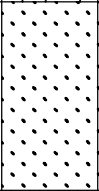

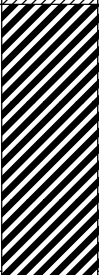
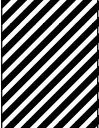

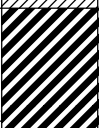


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 447619.60 Easting: 1328627.26	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/28/2017	Drilling Method: DPT	Total Depth (ft): 23
Finish Date: 3/2/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20			CH		Reddish brown, mottled gray, CLAY, very stiff, dry, high plasticity, some mottled brownish yellow (Arundel Clay)	
22						

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 444497.88 Easting: 1329214.24	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/2/2017	Drilling Method: DPT	Total Depth (ft): 22.7
Finish Date: 3/3/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
			TOPSOIL		0.5 Gass and topsoil	
			SP		Brown SAND, medium to coarse, topsoil, rock and gravel, moist, loose	0-1
2						
	5.0	0.0	SM		Brown/orange silty SAND, moist to wet, soft	
4						3-4
			CL		5.75 Brownish yellow, brown, very silty CLAY, soft, medium plasticity, dry	
6			CH		Reddish brown gray mottled CLAY, stiff, high plasticity, dry	
8	4.7	0.0				
			CH		10 Reddish brown gray mottled CLAY, stiff, high plasticity, dry	
10						
			CL		12.1 Brownish yellow very silty CLAY, soft, medium plasticity, moist	
12	4.8	0.0				
			CH		13.2 Reddish brown gray mottled CLAY, stiff, high plasticity, dry	
14						
			CH		15 Reddish brown gray mottled CLAY, stiff, high plasticity, dry	
16						
			CL		18.5 Reddish black gray mottled silty CLAY, medium stiff, high plasticity, dry	
18	4.9	0.0				
20						

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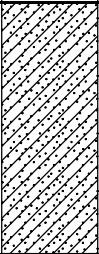
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 444497.88 Easting: 1329214.24	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/2/2017	Drilling Method: DPT	Total Depth (ft): 22.7
Finish Date: 3/3/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	2.7	0.0	CH		Reddish black, gray mottled silty CLAY, medium stiff, high plasticity, dry, siltstone at 20.8-21.1 ft., grey weathered firm, moist at 21.2-21.4 and 22-22.3 ft.	
						22.7

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










Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 445546.29 Easting: 1323248.40	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/5/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 4/5/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	SC		Orangish brown, brown, dark brown SAND and silty CLAY, medium, soft, low plasticity, dry/somewhat moist, brick and other debris	
4						

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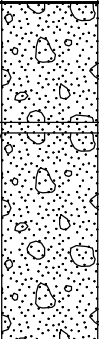
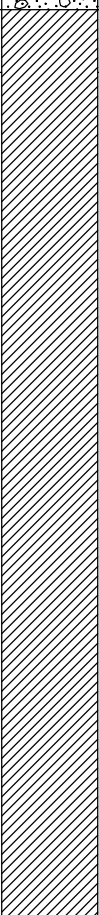
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445546.29 Easting: 1323248.40	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 18.5
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 41.5
Finish Date: 8/22/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	TOPSOIL		0.3 Topsoil and grass	
			SP		1 Brown/tan SAND, medium, some small gravel, roots, broken glass, dry	0-1
2			SM		2 Orange-brown silty SAND, medium grained, dry, bottle, broken glass, brick fragments	
4			SM		4 Orange-brown silty SAND, medium grained, dry, bottle, broken glass, brick fragments, small stones (<1/2"), brick, coal fragments	3-4
	3.4	0.0	SP		5 Brown SAND, fine to medium, dry, loose	
6			SP		7.25 Brown SAND, very fine, tight, moist	
8			SP		10 Brown SAND, very fine to medium, grain size increasing with depth, moist to saturated, tight;	
12			SM		11.41 Brown silty SAND, tight, moist;	
	3.3	0.0	CL		12 Gray, silty CLAY, soft, moist, gray medium sand, loose from 35-36	
14			CL		15 Gray, silty CLAY, soft, moist, gray medium sand	
16			SP		17.08 Gray SAND, fine to medium, moist, tight	
18			SM		17.75 Gray silty SAND, moist, tight	
	4.0	0.0	SP		18.5 Tan/gray SAND, coarse, trace fine gravel, saturated	
20			SP		20	

Remarks: Groundwater Sample Collected: 20 - 24 ft bgs

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
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445546.29 Easting: 1323248.40	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 18.5
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 41.5
Finish Date: 8/22/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	2.6	0.0	SPG		Gray/tan SAND and GRAVEL, coarse, large, some stones (1/4-3/4"), saturated	
21.91			SP		Gray SAND, very fine, loose, moist	
22.08			SPG		Gray/tan SAND and GRAVEL, coarse, large, some stones (1/4-3/4"), saturated	
24						
26	2.9	0.0	CL		Light gray/red silty CLAY, very tight, moist	
26.5			CL		Red silty CLAY, very tight	
28						
30						
32	5.0	0.0				
34						
36						
38	5.0	0.0				
40						

Remarks: Groundwater Sample Collected: 20 - 24 ft bgs

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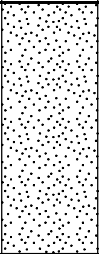
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445546.29 Easting: 1323248.40	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 18.5
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 41.5
Finish Date: 8/22/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
40						
	1.5	0.0	CL		Red silty CLAY, very tight (continued)	
					41.5	

Remarks: Groundwater Sample Collected: 20 - 24 ft bgs

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






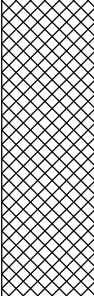


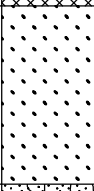

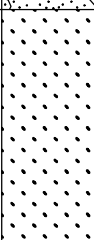
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 447594.39 Easting: 1320831.45	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/5/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 4/5/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	SP		Dark brown and black SAND, coarse to medium, loose, dry, abundant brick and other debris throughout	
4						

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








Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447594.39 Easting: 1320831.45	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 21.6
Start Date: 8/15/2017	Drilling Method: DPT	Total Depth (ft): 55
Finish Date: 8/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
			TOPSOIL		0.3 Topsoil and grass	
			SC		Brown/tan sandy LOAM, soft, trace organic root material	0-1
			SP		Brown SAND with silt, fine to medium grained, some stones and gravel, moist	
2			SP		Brown SAND with silt, fine to medium grained, some stones and gravel, large concrete/asphalt fill material, broken glass, moist	
		0.0	GP		Brown/black GRAVEL, large, crushed asphalt, some sand, moist	3-4
4			SP		4.5 Coarse SAND and oyster shells	
			FILL		5.33 Brick	
6			FILL		Black/tan/light brown rock, gravel, asphalt, dry, brittle	
8	3.3	0.0				
10						
			FILL		10.66 Brick	
			FILL		10.91 Black/tan/light brown rock, gravel, asphalt, dry, bottle, glass, oyster shells, moist, leafy material	
12			SM		12.16 Dark gray/gray silty SAND, depositional leaf matter, moist	
14	2.5	0.0				
			SPG		15 Black/tan/light brown GRAVEL and SAND, large, coarse, some stones, concrete, cloth, broken glass, moist	
16			SM		16.25 Dark gray silty SAND, soft, moist	
18	1.3	0.0				
20						

Remarks: Groundwater Sample Collected: 24 - 28 ft bgs and 50 -54 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447594.39 Easting: 1320831.45	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 21.6
Start Date: 8/15/2017	Drilling Method: DPT	Total Depth (ft): 55
Finish Date: 8/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	3.6	0.0	SM		Dark gray silty SAND, soft, moist (<i>continued</i>)	
			SM		20.83 Light gray/light blue silty SAND, soft, moist	
24	3.6	0.0	SPG		21.58 Brown GRAVEL and SAND, large, coarse, some stones (1/4-1"), saturated	
28	3.5	0.0			27.58 Dark gray, SILT, trace fine sand, moist	
			OL		28.41 Depositional layer of leaves	
32	5.0	0.0			31.66 Gray silty SAND, moist	
			SM		31.83 Alternating layers of depositional leaves and moist gray silty SAND	
36	5.0	0.0			35 Gray silty SAND, moist	
			SM		35.66 Gray SAND, medium to coarse, trace small gravel, saturated	
38	5.0	0.0			36.58 Gray silty SAND, moist, intermittent layers of depositional leaves	
			SM		40	

Remarks: Groundwater Sample Collected: 24 - 28 ft bgs and 50 -54 ft bgs

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



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447594.39 Easting: 1320831.45	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 21.6
Start Date: 8/15/2017	Drilling Method: DPT	Total Depth (ft): 55
Finish Date: 8/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
40			SM		Gray silty SAND, moist	
					40.66	
			GP		Gray GRAVEL, small, trace fine sand, trace small stones (<1/4"), saturated, 25-26" depositional layers of leaves	
42	3.6	0.0				
					43.58	
			GP		Gray GRAVEL, small, trace fine sand, trace small stones (<1/4"), saturated	
44						
46						
48	3.0	0.0				
50						
52						
	3.6	0.0	PT		52.41 52.75 Layer of leaves	
			CH		Arundel clay	
54						
55						

Remarks: Groundwater Sample Collected: 24 - 28 ft bgs and 50 -54 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 451508.96 Easting: 1320783.91	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/28/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	TOPSOIL		0.5 Brown topsoil, moist, organic materials	0-1
			SM		Dark brown silty SAND, dry, compact, organic materials	
			SM		2 Light brown and white silty SAND, dry, brittle, tight	
4					4	3-4

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 453527.57 Easting: 1321557.44	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/27/2018	Drilling Method: DPT	Total Depth (ft): 22
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	5.0	0.0	SP		Light brown SAND, medium, trace silt, soft, roots, organic material, dry		
2			SM		Light brown silty SAND, tight, organic material, dry		
4			SP		Light brown SAND, medium, trace silt, tight, organic material, dry		
6	4.6	0.0	SP		Yellowish red SAND, fine, little sand, coarse, trace gravel, small, angular, moist to wet at 6.2 ft, dense		
8			CH		Reddish yellow mottled red CLAY, very stiff, high plasticity, dry		
10			CH		Reddish yellow mottled red and purple CLAY, very stiff, high plasticity, dry (Arundel clay)		
12	5.0	0.0					
14							
16			CH		Yellowish brown, mottled red CLAY, very stiff, high plasticity, 15.5 to 17.3 ft. primarily red mottled with yellowish brown grey at 18 to 19 ft., with hard Arundel clay		
18	4.0	0.0					
20							

Remarks:

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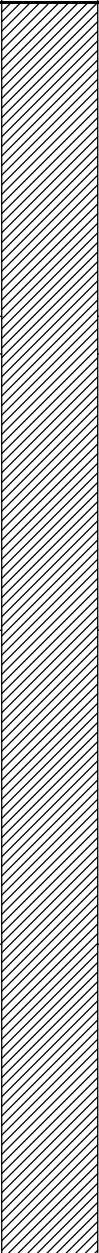
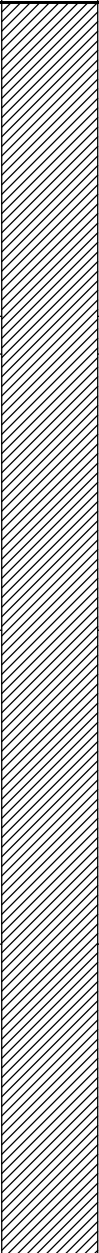
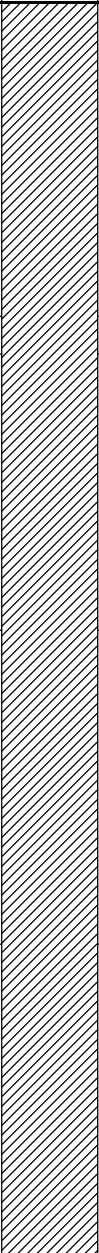
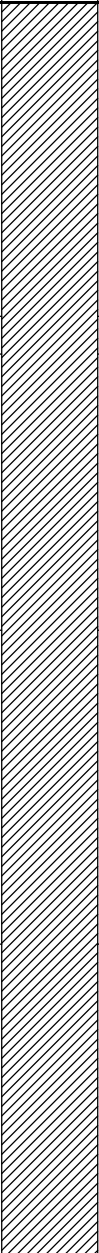
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 453527.57 Easting: 1321557.44	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/27/2018	Drilling Method: DPT	Total Depth (ft): 22
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	2.0	0.0	CH		Yellowish brown, mottled red CLAY, very stiff, high plasticity, 15.5 to 17.3 ft. primarily red mottled with yellowish brown grey at 18 to 19 ft., with hard Arundel clay (<i>continued</i>)	

Remarks:

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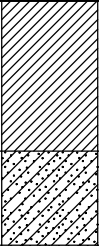

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 446903.48 Easting: 1323513.39	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 22.4
Start Date: 4/5/2017	Drilling Method: DPT	Total Depth (ft): 29
Finish Date: 4/18/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	CL		Orangish brown, dark brown, mottled gray silty CLAY, stiff and medium stiff, medium plasticity, somewhat moist, color changes to gray-light gray from 3 to 4 ft.	0-1
4						3-4
6	2.0	0.0	CL		5 Orangish brown, reddish brown sandy CLAY, firm, medium plasticity, dry	
8			CL		5.6 Gray to dark gray silty CLAY, firm, medium plasticity, moist from 6 to 6.3 ft.	
10	4.3	0.0	CL		10 Brown to dark brown silty CLAY, soft, medium plasticity, laminated with silt, moist at 13.0 ft., sandstone gravel at 13.0 ft., dry	
14						
16	3.8	0.0	CL		15 Brown to dark brown silty CLAY, soft, medium plasticity, laminated with silt	
18						
20						

Remarks: Groundwater Sample Collected: 21 - 25 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 446903.48 Easting: 1323513.39	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 22.4
Start Date: 4/5/2017	Drilling Method: DPT	Total Depth (ft): 29
Finish Date: 4/18/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	4.3	0.0	CL		Brown to dark brown silty CLAY, soft, medium plasticity, laminated with silt (<i>continued</i>)	
24			SC		22.4 Brown, dark brown and yellowish brown SAND and CLAY, soft, loose, sandstone cobbles from 22.4 to 23.2 ft. and 23.6 to 23.9 ft., wet	
25			CL		23.9 Reddish brown and mottled gray CLAY, soft, high plasticity, dry	
26	CH	25 Reddish brown, yellowish brown and mottled gray CLAY, silty, very hard, high plasticity, dry (Arundel clay)				
28	3.6	0.0			29	

Remarks: Groundwater Sample Collected: 21 - 25 ft bgs

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



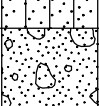
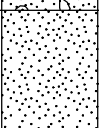

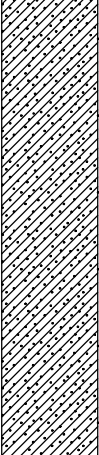


Boring Log

BORING #: SOBAC10/DPBACK01

Sheet 1 of 1

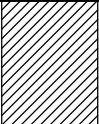

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 442393.07 Easting: 1324538.28	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 3.5
Start Date: 3/7/2017	Drilling Method: DPT	Total Depth (ft): 15
Finish Date: 3/7/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.1	TOPSOIL		0.5 Grass and topsoil	
			SM		1 Dark brown silty SAND, somewhat loose, trace gravel, medium, round, somewhat moist	
MLS				2 Light brown sandy SILT, saturated, soft, somewhat compact, some sand, coarse, some gravel, large		
4		0.0	MLS		2 Light brown sandy SILT, saturated, soft, loose, some sand, coarse, some gravel, coarse	
			SPG		3.5 Orange/brown SAND and GRAVEL, coarse and large, saturated, loose	
6	2.3	0.0	SP		5 Orangish brown SAND, fine and coarse, loose, angular, very moist to wet, sandstone gravel present throughout	
8			SP		7 Grey, dark grey SAND, fine and coarse, loose, angular, very moist to wet, sandstone gravel present throughout	
10			CLS		7.3 Light grey, grey, sandy SILT and CLAY, low plasticity	
12	0.0					
14						
						15

Remarks:

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
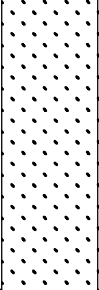

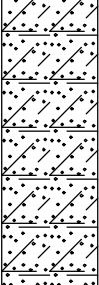
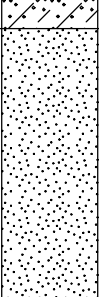
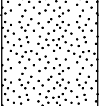
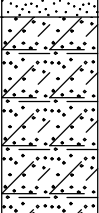
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 446512.25 Easting: 1325016.99	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/7/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 4/7/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	No PID	CL		Light brown, orangish brown, silty CLAY, firm, medium plasticity, dry, some ss cobbles	0-1
4			CH		Grayish brown and brown CLAY, some silt, stiff, high plasticity, dry	3-4

Remarks:

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 451106.18 Easting: 1327368.99	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 5.5
Start Date: 4/4/2017	Drilling Method: DPT	Total Depth (ft): 23.4
Finish Date: 4/18/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
			TOPSOIL SM		0.25 Dark brown organic overburden		
2	5.0	0.0			Orangish brown and dark brown silty SAND, fine, angular, soft, moist at roughly 4 ft., clayey matrix throughout	0-1	
4						3-4	
5							
6	2.0	0.0	SM		5.5 Orangish brown silty SAND, fine, soft, some sandstone gravel, dry		
8			SW			Gray and light gray SAND, fine to coarse, loose, sandstone cobbles at 6.2 to 7 ft., wet	
10							
12	3.2	0.0	SP		10.5 Orangish brown SAND, medium, medium dense, sandstone cobbles and gravel throughout, wet		
14							
15							
16	2.7	0.0	SP		White and orangish brown SAND, coarse, angular, medium dense, moist		
18			SW			16.7 Orangish brown SAND, fine to coarse, medium dense, sandstone cobbles and gravel throughout, moist	
20							

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs

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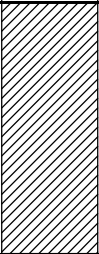
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 451106.18 Easting: 1327368.99	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 5.5
Start Date: 4/4/2017	Drilling Method: DPT	Total Depth (ft): 23.4
Finish Date: 4/18/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	3.4	0.0	SW		Orangish brown SAND, fine to coarse, medium dense, sandstone cobbles and gravel throughout, moist (<i>continued</i>)	
			CH		Brown, reddish brown, and mottled gray CLAY, stiff/very stiff, high plasticity, dry (Arundel)	

Remarks: Groundwater Sample Collected: 16 - 20 ft bgs

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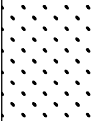

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 444258.44 Easting: 1322878.35	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/5/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 4/5/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	CL		Orangish brown and very dark brown silty CLAY, soft, low plasticity, dry, some sandstone cobbles	0-1
4						3-4

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 453759.47 Easting: 1323622.17	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/3/2017	Drilling Method: DPT	Total Depth (ft): 3
Finish Date: 3/3/2017		

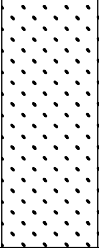
Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	3.0	0.0	SM		Light brown/red sandy SILT, trace fine roots, loose, soft, very little moisture	0-1
			ML		Light brown and red SILT with trace clay, dry	

Soil and Rock Description
Classification Scheme: USCS

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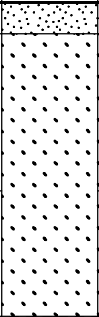
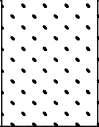
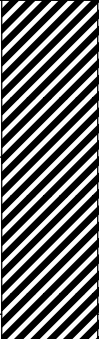

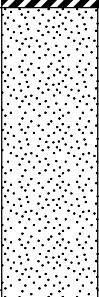
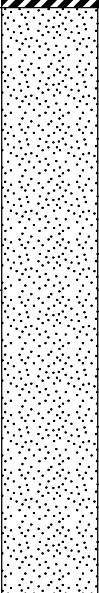
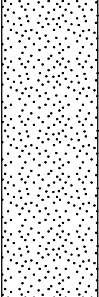
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 454385.13 Easting: 1324917.01	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/27/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 2/27/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	SM		Orange-brown silty SAND, soft, organic material, moist	0-1
4						3-4

Remarks:

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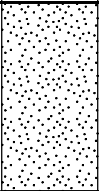
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 455005.08 Easting: 1324848.90	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/27/2017	Drilling Method: DPT	Total Depth (ft): 23
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	5.0	0.0	SP		0.5 Light brown SAND, medium to coarse, dry, organic material, loose, grass/topsoil cover	0-1	
			SM		Orange-brown silty SAND, tight, dry, organic material		
2							
	4.2	0.0	SM		3 Brown/white silty SAND, tight, dry	3-4	
4							
	4.8	0.0	CH		5 Yellowish brown to gray mottled silty CLAY, low plasticity, medium stiff, somewhat moist at 6 ft.		
6							
	4.7	0.0	CH		7.5 Yellowish brown, red, gray mottled CLAY, high plasticity, very stiff, dry		
8							
	4.8	0.0	CH		10 Red and little yellowish brown mottled CLAY		
10							
	4.7	0.0	SP		10.5 Light brown SAND, fine, dense, moist, interbedded with hard dry clay, yellowish brown at 12-12.4, 13-13.3, 13.9-14.1 ft.		
12							
	4.7	0.0	SP		15 Light brown SAND, fine, dense, moist		
14							
16							
18							
20							

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






Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 455005.08 Easting: 1324848.90	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/27/2017	Drilling Method: DPT	Total Depth (ft): 23
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	3.2	0.0	SP		Pinkish grey SAND, fine, dense, somewhat moist, mottled brownish yellow at 22.1-23 ft.	

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







Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 454066.94 Easting: 1329476.81	Drilling Company: GSI/E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 11.2
Start Date: 2/28/2017	Drilling Method: DPT	Total Depth (ft): 39
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
			TOPSOIL		0.5 Grass and Topsoil	
			SP		Dark brown, medium to coarse SAND, topsoil, moist, loose, organic material, rocks	0-1
2			SP		Dark brown, coarse SAND, moist, large gravel, loose	
4	5.0	0.0				3-4
6			SP		5 Reddish brown, reddish yellow SAND, fine, some sandstone gravel at 6 to 8.3ft., loose, fine, dry	
8	3.3	0.0				
10			SP		10 Reddish brown, reddish yellow, SAND, fine, some sandstone gravel, loose, fine, dry	
12			SW		11.2 Orangish brown SAND, fine to coarse, abundant sandstone gravel at 12.9 to 13.6 ft., small to large, very moist	
14	3.6	0.0				
16			SW		15 Orange brown SAND, fine to coarse, abundant sandstone cobbles at 15 to 16.6 ft., small to large, very moist	
18	3.2	0.0				
20						

Remarks: Groundwater Sample Collected: 13 - 17 ft bgs

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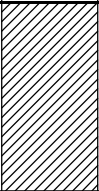
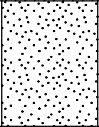


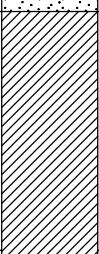
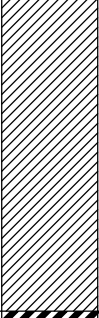
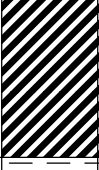
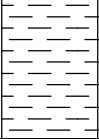
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 454066.94 Easting: 1329476.81	Drilling Company: GSI/E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 11.2
Start Date: 2/28/2017	Drilling Method: DPT	Total Depth (ft): 39
Finish Date: 2/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
21	4.9	0.0	SW		Orange brown SAND, fine to coarse, abundant sandstone cobbles, small to large, moist	
22			OL-OH		Dark gray SILT and CLAY, soft, high plasticity, very moist at 23 to 24 ft.	
24			ML-CH		Orangish brown SAND and SILT, fine, loose, moist	
25			SW		Grey and white SAND, fine, coarse grained, loose, very moist	
26	3.6	0.0	SP		Orangish brown SAND, coarse, loose, very moist	
27			SP		Dark gray SAND, coarse, loose, moist, wood at 27.5 to 28.2 ft.	
28						
30	3.2	0.0	SW		Grey, brown, brownish yellow, mottled red SAND, fine to coarse, moist, sandstone cobbles present throughout, very stiff clay at 33.1 ft., mottled gray and red	
32						
34						
35						
36	4.0	0.0	CH		Reddish brown, mottled gray CLAY, stiff, high plasticity, dry (Arundel Clay)	
38						
39						

Remarks: Groundwater Sample Collected: 13 - 17 ft bgs

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
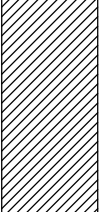
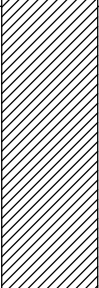


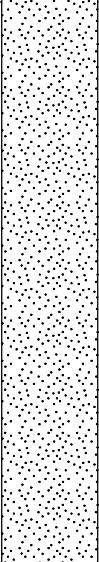
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 446369.96 Easting: 1321086.38	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 5.2
Start Date: 4/19/2017	Drilling Method: DPT	Total Depth (ft): 45
Finish Date: 4/20/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	CL		Orangish brown and dark brown sandy CLAY, fine, soft, low plasticity, dry	0-1
3						
4			SP		Dark brown and black SAND, medium, some clay, loose, abundant construction debris and broken glass	3-4
5						
6	3.0	0.0	FILL		Bricks, crushed rock, fill debris	
6.2			SP		Dark gray SAND, coarse, broken glass and brick, wet	
6.2			CL		Dark gray silty CLAY, soft, moist, medium plasticity	
8						
10			CL		Dark gray silty CLAY, soft, moist, medium plasticity, trace sand, fine	
12	3.7	0.0				
15			CH		Dark gray silty CLAY, soft, moist, high plasticity, trace sand, fine	
16						
18	3.2	0.0	OL		Dark gray SILT, some sand, fine, moist	
20						

Remarks: Groundwater Sample Collected: 6 - 10 ft bgs

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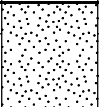
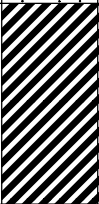
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 446369.96 Easting: 1321086.38	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 5.2
Start Date: 4/19/2017	Drilling Method: DPT	Total Depth (ft): 45
Finish Date: 4/20/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
20						
22	5.0	0.0	SM		Dark gray sandy SILT, moist, soft, lots of material (small rocks) throughout	
24			CL		Dark gray silty CLAY, moist, soft, sand and roots decrease	
26	4.8	0.0	CL		Dark gray silty CLAY, moist, soft	
28			SM		Dark gray sandy SILT, moist, soft, lots of organic material (small, shallow roots)	
30	2.9	0.0	SP		Dark gray SAND, coarse, cobbles (1/2-1 in. diameter), wet	
32			SP		Dark gray to light tan SAND, coarse, cobbles (1/2-1 in. diameter), wet	
34						
36	1.4	0.0				
38						
40						

Remarks: Groundwater Sample Collected: 6 - 10 ft bgs

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 446369.96 Easting: 1321086.38	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 5.2
Start Date: 4/19/2017	Drilling Method: DPT	Total Depth (ft): 45
Finish Date: 4/20/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
40	2.3	0.0	SP		40.5 Dark gray to light tan SAND, coarse, cobbles (1/2-1 in. diameter), wet <i>(continued)</i>	
			SP		Dark gray to light gray/green SAND, coarse, cobbles (1/2-1 in. diameter), wet	
42			CH		41.8 Arundel CLAY	
44					45	

Remarks: Groundwater Sample Collected: 6 - 10 ft bgs

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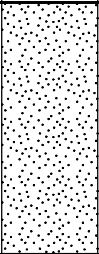


Boring Log

BORING #: SOBAC19F

Sheet 1 of 1

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 449700.48 Easting: 1325107.84	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/4/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 4/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	SP		Orangish brown and brown SAND, fine to medium, loose, sand stone cobbles at 0 to 1 ft. interval, moist at 0 to 2 ft., wet at 2 to 4 ft., hole collapsing during to surface at roughly 3 ft. water	0-1 3-4
4						

Remarks:

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Boring Log

BORING #: SU-BK-01

Sheet 1 of 1

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 454392.00 Easting: 1327237.88	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/4/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 4/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	MLS		Orangish brown sandy SILT, coarse, sandstone cobbles at 0 to 1 ft. and 3 to 4 ft., medium, angular, dry	0-1
4						3-4

Remarks:

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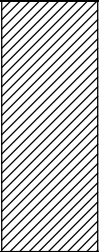


Boring Log

BORING #: SU-BK-02

Sheet 1 of 1

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 454777.51 Easting: 1328149.06	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/4/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 4/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	CL		Orangish brown silty sandy CLAY, fine, sandstone gravel at 0 to 1 ft. interval, dry	0-1
4						3-4

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448834.07 Easting: 1324095.73	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/1/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/1/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2 4 6	6.0	0.2	SPG		0.2 Compact stone and gravel cover	
					1 Dark brown, black SAND and GRAVEL, coarse, some stones, compact, dry	
		0.1	SP		2 Dark brown SAND, coarse, some gravel, compact to loose, dry	
		0.0	SP		3 Dark brown SAND, coarse, some gravel, compact to loose, dry	2-3
		0.0	SP		4 Black SAND and crushed coal, coarse, coal fragments throughout, compact, dry	3-4
		0.0	SP		5 Dark brown SAND, coarse, trace coal fragments, compact to loose, dry	4-5
		0.0	SP		6 Brown SAND, medium, dry to moist	

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448809.68 Easting: 1324116.34	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/1/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/1/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	SP		0.5 Crushed stone and gravel	
		0.0	SP		1.7-2 Light brown SAND, fine to medium, some stone and gravel, compact, dry	
		0.0	SP		2-3.5 Black SAND, coarse, crushed coal, coal fragments throughout, compact, dry	2-3
		0.0	SP		3.5-6 Brown SAND, medium, trace coal fragments, dry	3-4
		0.0				4-5
		0.0				
6						

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448783.89 Easting: 1324092.60	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/1/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/1/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2 4 6	6.0	0.0	SP		0.5 Crushed stone and gravel	
		0.0	SP		Dark gray/black SAND, coarse, trace metal debris, some gravel, loose, dry	
		0.0	SP		Black SAND, coarse, crushed coal, trace gravel, loose, soft	2-3
		0.0	SP		Light brown/tan SAND, medium to coarse, trace crushed coal, loose, dry	3-4
		0.0	SP		Brown SAND, fine to medium, loose, dry	4-5
		0.0	SP			

Remarks:

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448809.30 Easting: 1324066.24	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/1/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/1/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	SP		0.5 Compact stone and gravel	
		0.0	SP		1 Light brown SAND, coarse, some gravel, some concrete debris, compact, dry	
0.0		SP		2 Light brown SAND, medium to coarse, some gravel, compact, moist		
0.0		SP-OL		3 Dark gray SAND and SILT, coarse, some large stones (1/2 - 1"), some gravel, saturated	2-3	
0.0		SP-OL		3.3 Dark gray SAND and SILT, coarse, some large stones (1/2 - 1"), some gravel, moist		
0.0		SPG		4 Black SAND and GRAVEL, coarse, some crushed coal, dry	3-4	
4		0.0	SP		4 Black SAND and crushed coal, coarse, loose, soft, dry	4-5
6		0.0	GP		5.5 Dark gray GRAVEL, large, some coarse sand, dry	5-6
					6	

Remarks:

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 448766.55 Easting: 1324095.97	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/1/2008	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/1/818		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	ASPHALT SWG		0.2 Asphalt Surface	
					1 Medium and dark brown gravelly SAND, fine to coarse, small to large, angular to subrounded (fill gravel), dry	
2		0.0	SM		2 Black silty SAND, very fine to coarse, little small gravel, angular to subrounded, coal fragments, slightly moist	
		0.1	GPS		3 Black sandy GRAVEL (primarily coal), very fine to coarse, small, dry	2-3
		0.0	SWG		4 Black gravelly SAND (primarily coal), very fine to coarse, small, dry	
4		0.0	SWG		4.5 Black gravelly SAND (primarily coal), very fine to coarse, small, dry	
		0.0	SP		5 Black gravelly SAND (primarily coal) very fine to coarse, small, dry, grading to orange-brown SAND, fine, dry at the bottom, no odor	

Remarks:

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
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Project: Benning Road Facility	Northing: 449160.88 Easting: 1324112.78	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 7/31/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 7/31/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	SM		0.2 Grass and hay Brown/gray silty SAND, rock fragments, dry	0-1
2		0.0	SP		Dark gray, black SAND, medium, some gravel, loose, dry	1-2
		0.0	SP		2.5 Brown SAND, fine to medium, loose, dry	
4		0.0				
		0.0				

Remarks:

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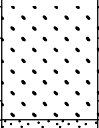
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449133.52 Easting: 1324082.50	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 7/31/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 7/31/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	SP-OL		0.2 Grass and hay	
			SP		1 Brown SAND and SILT, medium, some gravel, loose, dry	0-1
2		0.1	SP		2 Dark brown SAND, medium, some gravel, loose, dry, concrete refusal between 20"-24"	1-2
		0.0	SP		3 Orange-brown SAND, fine to medium, loose, dry	
4		0.0	SP		4 Orange-brown SAND, fine to medium, some gravel, loose, slightly moist	
		0.0			5	

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
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Project: Benning Road Facility	Northing: 449160.00 Easting: 1324059.32	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 7/31/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 7/31/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SM		0.2 Grass and hay	
			SM		1 Brown/gray silty SAND, rock fragments, hard, dry	0-1
		0.0	SM	2 Gray silty SAND, metal fragments, rock fragment, hard, dry	1-2	
		0.0	SM	2.3 Gray silty SAND, some gravel, hard, dry		
		0.0	SP	5 Light brown SAND, fine to medium, trace gravel, loose, dry	2-3	

Remarks:

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


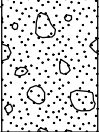
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 449159.28 Easting: 1324034.11	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/1/2008	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/1/818		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.2	TOPSOIL CL		0.1 Grass, topsoil 1 Medium orangish brown silty CLAY, low plasticity, little small to large gravel, subangular to subrounded, slightly moist	0-1
2		0.0	GWS		2 Dark brown sandy GRAVEL, fine to coarse, small to large, angular to subrounded, concrete and various types of rock, dry	1-2
		0.1	SP		3 Orange-brown SAND, fine, trace small to large gravel, subangular to rounded, slightly moist	
4		0.0	SP		4 Orange-brown SAND, fine, slightly moist	
		0.0			5	

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
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448888.29 Easting: 1324313.53	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/2/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/2/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	FILL		0.2 Stone cover	0-1
		1.2	SPG		0.7 Crushed rock and stone, compact	
4	5.0	0.2			Brown/tan SAND and GRAVEL, coarse, some stones, compact, dry	1-2
		0.0	SPG		Brown/tan SAND and GRAVEL, coarse, some stones, brick fragments, compact, dry	
		0.0	SPG		Brown/tan SAND and GRAVEL, coarse, some stones, some large rocks, compact, dry	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448864.60 Easting: 1324375.03	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/3/2017	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 8/3/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	FILL SPG		0.2 Stone cover	0-1
					0.5 Crushed rock and stone, compact	
		0.1	SP		1 Brown/tan SAND and GRAVEL, coarse, some stones, compact, dry	1-2
		0.0			3 Brown SAND, medium to coarse, some gravel and stones, compact, dry	
4		0.0	SP		4 Brown SAND, medium to coarse, some gravel and stones, compact, saturated	

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448865.00 Easting: 1324393.87	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/2/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/2/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	FILL SPG		0.2 Stone cover	0-1
		0.0			0.5 Crushed rock and stone, compact	
0.0		SPG		2 Brown/tan SAND and GRAVEL, coarse, some stones, some root material, compact, dry	1-2	
0.0		SPG		3 Brown/tan SAND and GRAVEL, coarse, some stones, some root material, compact, saturated		
0.0		SPG		4 Brown/tan SAND and GRAVEL, coarse, some stones, some root material, compact, saturated to moist		
0.0	SPG		5 Brown/tan SAND and GRAVEL, coarse, some stones, some root material, compact, moist to dry			

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448836.15 Easting: 1324370.71	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/3/2017	Drilling Method: DPT	Total Depth (ft): 4.5
Finish Date: 8/3/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	4.5	0.0	SPG		0.2 Stone cover	0-1
					1 Dark brown/black SAND and GRAVEL, coarse, some stones, concrete debris, compact, dry	
2		0.0	SP		Brown/tan SAND, coarse, some small gravel, some stones, rock, and concrete debris, compact, dry	
		0.0			3 Brown SAND, fine to coarse, some fine to coarse angular gravel, little silt, slight odor, moist	
4		0.7	SW		4 Brown SAND, fine to coarse, some fine to coarse angular gravel, little silt, slight odor, moist	
	1.4	SW		4.5 Brown SAND, fine to coarse, some fine to coarse angular gravel, little silt, trace debris (plastic, brick), slight odor, moist		

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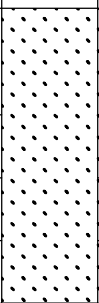
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448809.87 Easting: 1324734.69	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/8/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/8/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SM		0.4 Mixed stone and grass cover 1 Strong brown and dark brown silty SAND, fine, trace subrounded gravel, trace slag, moist	0-1
		0.0	SM		2 Strong brown silty SAND, fine, some subrounded gravel, trace slag, moist	1-2
0.0		SW		3 Strong brown SAND, well graded, some silt, some subrounded gravel, moist to wet		
0.0		SW		4 Strong brown SAND, well graded, some silt, some subangular gravel, moist to wet		
0.0					5	

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



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448783.65 Easting: 1324734.03	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/8/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/8/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SM		0.3 Mixed stone and grass cover	0-1
		0.0			Dark brown silty SAND, fine, some subrounded gravel, moist	1-2
0.0		SM	Strong brown and dark brown silty SAND, fine, trace subrounded gravel, moist		2-3	
0.0		SM	Strong brown silty SAND, fine, trace subrounded gravel, trace subangular gravel, moist			
0.0		SM	Strong brown silty SAND, fine, some subrounded gravel, moist to wet			
4		0.0				
		0.0				

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448860.90 Easting: 1324629.12	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/8/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/8/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.1	TOPSOIL SPG		0.4 Topsoil and grass cover	
					1 Strong brown SAND and GRAVEL, fine to coarse, small to large, little silt, trace organics, moist	0-1
2		0.0	SM		2 Dark reddish brown silty SAND, fine to coarse, some angular gravel, small to large, moist	1-2
		0.0	SM		3 Dark reddish brown silty SAND, fine to coarse, some angular gravel, small to large, little clay, moist	2-3
4		0.0	ML		4 Reddish brown clayey SILT, little fine sand, little angular gravel, small, moist	3-4
		0.0			5	4-5

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448791.92 Easting: 1324759.19	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/1/2008	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/1/818		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		0.5 Asphalt	
			GW		Gray GRAVEL (base course), small to large, wet at 0.8'	
0.0		ML		1.2 Reddish brown SILT, little fine sand, dry	1-2	
		ML		2 Reddish brown SILT, little fine sand, little small to large rounded gravel, little silt, wet		
4		0.0	GW		3 Strong brown GRAVEL, small to large, rounded, little fine to coarse sand, wet	
		0.0			5	

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










Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448882.30 Easting: 1324606.79	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SM		0.4 Brown silty SAND, fine, some small to large angular gravel, moist	0-1
		0.0	ASPHALT		0.7 Asphalt	
4	5.0	0.0	ML		Brown SILT, some large angular gravel, little fine sand, trace clay, moist	1-2
		0.0	SM		2 Black stained silty SAND, fine, some small to large angular gravel, some fill (coal), trace clay, dry	2-3
4	5.0	0.0	ML		3 Brown SILT, little large rounded gravel, moist, trace fill (coal and brick)	3-4
		0.0	CL		4 Brown and gray mottled silty CLAY, dry	
		0.0			5	

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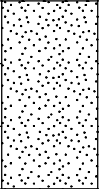
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449258.54 Easting: 1324625.00	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10
Start Date: 2/22/2018	Drilling Method: DPT	Total Depth (ft): 18.4
Finish Date: 3/28/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	6.1	SM		1 Dark brown silty SAND, fine, some gravel, small to large, angular, trace fill (coal), moist, faint odor	0-1
		36.6	SM		2 Very dark brownish gray silty SAND, fine, some gravel, small to large, angular, little fill (coal slag), moist, moderate odor	1-2
33.2		SP		3 Dark grayish brown SAND, fine, little silt, trace gravel, small, angular, trace fill (glass), moist, moderate odor	2-3	
26.0		MLS		4 Very dark gray sandy SILT, fine, little small to large gravel, subround, trace fill (glass, ceramic, fabric), moist, moderate odor	3-4	
25.1		MLS		5 Very dark gray sandy SILT, fine, little gravel, small to large, subround, some fill (glass, coal, metal), moist, moderate odor	4-5	
20.5		SM		6 Very dark gray silty SAND, fine, some small to large subangular gravel, some fill (glass, metal, wood), moist, moderate odor	5-6	
8	2.4	0.5	SW		Grayish brown SAND, fine to coarse, little gravel, small to large, angular, medium dense, faint odor, moist	6-7
10					10	
12	3.5	0.2	SP		11 Grayish brown SAND, fine, medium dense, wet, faint odor	
				CL		
14			CL		15	
16	3.4	0.0	CL		Light brown CLAY, medium soft, low plasticity, trace wood fragments, fine sand at 17.3' to 17.5', moist	
				17.8		
18			SP		18.4 Light brown SAND, fine, medium dense, wet	

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449257.33 Easting: 1324675.32	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/16/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 3/16/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	1.2	ASPHALT		0.1 Asphalt Brown silty SAND, fine, some small to large angular gravel, little fill (coal, bricks, debris, concrete, wire), faint odor, moist	0-1
2		1.7			2	1-2
		0.3	SM		3 Brown silty SAND, fine, trace clay, some small to large angular gravel, trace fill (coal), faint odor, moist	2-3
4		0.0	SP		4 Brownish and yellowish SAND, fine, moist	3-4
		0.0	SP		5 Dark brown SAND, fine, some small rounded gravel, little silt, trace fill (coal), moist	4-5
6		0.0	SP	6 Pale brown SAND, fine to medium, some small to large rounded gravel, moist	5-6	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449258.37 Easting: 1324575.29	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/16/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 3/16/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2 4 6	6.0	0.0	GW		0.5 Gray GRAVEL, small to large, some fine to coarse sand, moist	0-1
			ASPHALT		1 Asphalt	
		0.0	SP		Dark grayish brown SAND, fine, some small to large gravel, angular, some silt, moist	1-2
		0.0			3	2-3
		0.3	ML		4 Brown SILT, little fine sand, little small to large gravel, angular, trace fill (wood), faint odor, moist	3-4
		0.2	GP		5 Brown GRAVEL, large, rounded, some silt, little fine sand, little small rounded gravel, moist	4-5
0.7	ML		6 Dark grayish brown SILT, some large rounded gravel, little small rounded gravel, trace fine sand, slight staining, moist, faint odor	5-6		

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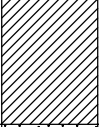

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449279.29 Easting: 1324626.42	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/16/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 3/16/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	0.0	ASPHALT SM		0.1 Asphalt	
					1 Dark gray silty SAND, fine, some small to large angular gravel, moist	0-1
2		0.7	SM		2 Dark grayish brown silty SAND, fine, little small to large angular gravel, trace fill (coal), moist	1-2
		0.1	SP		3 Dark yellowish brown fine SAND, trace small to large round gravel, trace silt, moist	2-3
4		0.0	SM		Grayish brown silty SAND, fine to coarse, some small to large subrounded gravel, moist	3-4
		0.0				4-5
6		0.0				5-6

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449262.94 Easting: 1324725.28	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/5/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 4/5/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
2 4 6	6.0	0.0	GW		Dark gray gravelly SAND, small to large, angular, little silt, moist	0-1	
		0.0	SM		Gray silty SAND, fine, some small to large angular gravel, moist	1-2	
		0.0	SM		Gray silty SAND, fine, some small to large angular gravel, trace coal, moist		
		0.0	CL		Pale brown and gray mottled CLAY, stiff, medium plasticity, dry		
		0.0					
		0.0	SP		Brown SAND, fine, some small to large subrounded gravel, little silt, moist		

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449258.83 Easting: 1324525.11	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/6/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 4/6/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2 4 6	6.0	0.0	SW		Brownish gray SAND, fine to coarse, some gravel, small to large, angular, little silt, moist	0-1
		0.0	SW		Brownish gray SAND, fine to coarse, some gravel, small to large, angular, little silt, little fill (slag), moist	1-2
		0.0	SW		Brownish gray SAND, fine to coarse, some small to large angular gravel, little silt, little fill (slag), little cobbles, moist	2-3
		0.0	ML		Pale brown SILT, some gravel, small to large, angular, little sand, fine, little fill (glass)	
		0.0	CL		Dark reddish brown silty CLAY, trace gravel, small, angular, trace fill (coal), moist	
		0.0				

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
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448457.47 Easting: 1324836.56	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 11
Start Date: 8/10/2017	Drilling Method: DPT	Total Depth (ft): 20
Finish Date: 8/23/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	1.3	ASPHALT FILL		0.1 Asphalt cover	0-1
			SM		0.6 Gravel base	
4	5.0	0.0	SM		1 Black silty SAND, fine, some subrounded gravel, moist	1-2
		25.2	SM		2 Black and brown silty SAND, fine, some subangular gravel, trace slag, moist	2-3
6	5.0	0.3	SM		4 Black and strong brown silty SAND, fine, some subangular gravel, brick pieces, moist, odor	3-4
		0.0	SM		5 Brown silty SAND, fine, trace subangular gravel, moist	4-5
8	5.0	0.0	SM		5 Black silty SAND, compact, moist	10-11
			FILL		5.8 Brick, crushed	
10	5.0	0.0	SM		6.7 Black/dark gray silty SAND, some gravel, soft, saturated	11-12
			SM		10 Black/dark gray silty SAND, some gravel, soft, saturated	
12	5.0	0.0	SM		11 Dark gray silty SAND, soft, saturated	12-13
			SP		11.9 Sand, fine to medium	
14	5.0	0.0	SM		12 Dark gray silty SAND, soft, saturated	13-14
			OL		13 Dark gray SILT, soft saturated	
16	5.0	0.0	OL		15 Dark gray SILT, soft saturated	14-15
			SM		17 Dark gray silty SAND, trace gravel, soft, saturated	
18	5.0	0.0	SP		18 Dark gray SAND, coarse, some gravel, some stones (<1/2"), saturated	
20						

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




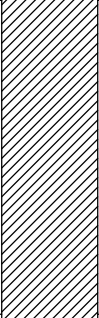
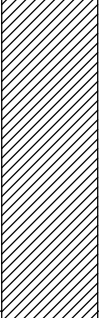



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448430.40 Easting: 1324860.36	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10
Start Date: 8/10/2017	Drilling Method: DPT	Total Depth (ft): 20
Finish Date: 8/23/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	5.0	0.9	FILL		0.1 Gravel Cover Black crushed FILL, some sub angular gravel, moist	0-1	
2			MLS		1 Strong brown fine sandy SILT with black crushed fill and slag, moist	1-2	
				FILL		2 Black crushed FILL and slag, some fine sand, moist	2-3
4			0.0	FILL		4 Black crushed FILL and slag, some fine sand, some brick pieces, moist	3-4
				FILL		5 Black crushed FILL and slag, some fine sand, some brick pieces, moist	4-5
6	1.4	0.0	FILL SPG		5.3 Black crushed rock and stone, dry Brown SAND and GRAVEL, coarse and large, some crushed rock and stone, brick fragments, dry	5-6	
8				FILL		6.3 Black crushed rock and stone, broken metal, moist	
10				FILL OL		10 Black crushed rock and stone, broken metal, saturated 10.3 Dark gray SILT, soft, trace fine sand, moist	10-11
12	1.9	0.0				11-12	
14							
16	3.5	0.0	OL SPG		15 Dark gray SILT, soft, trace fine sand, moist 15.2 Dark brown SAND and GRAVEL, coarse and large, compact, saturated		
18							
20							

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



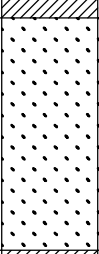





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448407.52 Easting: 1324839.87	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 18
Start Date: 8/11/2017	Drilling Method: DPT	Total Depth (ft): 20
Finish Date: 8/23/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SM		1 Brown and black silty SAND, fine, some subangular gravel, some slag, moist	0-1
		0.0	MLS		2 Strong brown and black sandy SILT, fine, some clay, trace slag, trace subrounded gravel, moist	1-2
		0.0	SM		3 Strong brown silty SAND, fine, trace clay, moist to wet	2-3
		0.0	SM		4 Strong brown silty SAND, fine, with gray clay, moist to wet	3-4
		0.0	CL		5 Strong brown and gray sandy CLAY, fine, some silt, moist	4-5
6	4.0	0.0	CL		10 Reddish brown/gray CLAY, tight	
8						
10						
12						
14	5.0	0.0	CL		15 Reddish brown/gray CLAY, tight	10-11
16						11-12
18						12-13
20						
18	5.0	0.0	SP		17.2 Brown SAND, coarse, some gravel, limestone fragments, some stones	13-14
			SP		18 Blue SAND, coarse, some gravel, limestone fragments, some stones, saturated	14-15
			SP		19.5 Dark brown SAND, coarse, some gravel, limestone fragments, some stones, saturated	

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448432.80 Easting: 1324809.44	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 16
Start Date: 8/11/2017	Drilling Method: DPT	Total Depth (ft): 20
Finish Date: 8/23/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	FILL		0.2 Gravel Cover Black crushed fill with slag, some fine silty sand, moist	0-1
2		0.0	FILL		Black crushed fill with slag, some fine silty sand, trace coal, moist	1-2
		0.0	SM		Strong brown silty SAND, fine, trace subangular gravel, moist to wet	2-3
4		0.0			4	3-4
		0.0	CL		Strong brown sandy CLAY, fine, some silt, moist	4-5
6	3.0		CL		Light brown CLAY, tight, dry	
8		0.0	SM		Brown silty SAND, tight, moist	
10					10	
	5.0	0.0	CL		Brown/gray/red CLAY, tight, moist	10-11
12						11-12
						12-13
14						13-14
						14-15
16	4.3	0.0	CL		Brown/gray/red CLAY, tight, moist	
			SPG		Brown SAND and GRAVEL, coarse and large, some stones, limestone rocks, moist to saturated	
18			SPG		17.4 17.5 Black SAND and GRAVEL, coarse and large, some stones, limestone rocks, moist to saturated Brown SAND and GRAVEL, coarse and large, some stones, limestone rocks, moist to saturated	
			SPG		18.4 18.8 Black SAND and GRAVEL, coarse and large, some stones, limestone rocks, moist to saturated Brown SAND and GRAVEL, coarse and large, some stones, limestone rocks, moist to saturated	
20			SPG		18.8 20 Black SAND and GRAVEL, coarse and large, some stones, limestone rocks, moist to saturated Brown SAND and GRAVEL, coarse and large, some stones, limestone rocks, moist to saturated	

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






Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 448387.96 Easting: 1324781.08	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	GP		0.1 Gravel surface	
		0.0	SPG		1 Medium brown gravelly SAND, fine to coarse, small to large, angular to subangular, slightly moist to dry	0-1
2		0.0	SW		2 Medium orangish brown SAND, very fine to coarse, little small to large gravel (primarily small), subangular to subrounded, trace silt, slightly moist to dry	1-2
		0.0	SP		3 Medium orange-brown SAND, very fine to fine, trace coarse sand, trace small to large gravel, subangular to subrounded, slightly moist to dry	
4		0.0	SM		4 Medium orange-brown silty SAND, very fine to fine, trace small gravel, subangular, trace clay, very low plasticity, slightly moist to dry	
		0.0	SP		5 Medium orange-brown SAND, very fine to fine, trace clay, very low plasticity, moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 448504.73 Easting: 1324828.67	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10
Start Date: 2/1/2018	Drilling Method: DPT	Total Depth (ft): 19.8
Finish Date: 3/28/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		0.2 Asphalt	0-1
			GWS		0.5 Black sandy GRAVEL, fine to coarse, small to large, subangular to subrounded	
			SP		0.8 Orange-brown SAND, fine, trace gravel	
			GWS		1 Black sandy GRAVEL, fine to coarse, small to large, subangular to subrounded	
			SWG		2 Dark brown gravelly SAND, fine to coarse, few small gravel, little orange-brown silty clay in clumps, slightly moist	
4	5.0	0.0	FILL MATERIAL		3 FILL, coble size concrete, brick, conduit and ceramic, gravel size brick, ceramic, slag and glass, little medium brown silty clay	2-3
			CL		3.8 Orange CLAY with red mottling, slightly moist	10-11
			SW		4 Black SAND, very fine to coarse, little small slag gravel, little glass, dry	
GWS		4.4 Dark brown sandy GRAVEL, fine to coarse, small to large, angular to subrounded, combination of rocks, brick, glass, wire, metal and coal, slightly moist				
6	2.9	0.0	SM		5 Dark brown silty SAND, some small to large angular gravel, medium dense, moist	10-11
			ML		6.6 Grayish brown SILT, little clay, trace sand, medium stiff, moist	
8	2.9	0.0				
10			ML		10 Dark grayish brown SILT, little fine sand, medium soft, wet	10-11
12	4.7	0.0	SP		12 Brown SAND, fine, medium loose, wet	10-11
14	4.7	0.0	CL		13.1 Grayish brown silty CLAY, medium soft, moist, fine sand at 14.5' to 14.7'	
16	4.7	0.0	SP		15.9 Grayish brown SAND, fine, loose, wet	
18	4.8	0.0	GW		18 Grayish brown GRAVEL, small to large, angular, some fine to coarse sand, loose, wet	10-11
	4.8	0.0	SW		19 Grayish SAND, fine to coarse, some small to large angular gravel, loose, wet	
					19.8	

Remarks:

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

















































Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448484.32 Easting: 1325252.30	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 10.8
Start Date: 8/14/2017	Drilling Method: DPT	Total Depth (ft): 15
Finish Date: 8/22/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	FILL		0.4 Gravel Cover	0-1
			SM		1 Dark brown and strong brown silty SAND, fine, trace clay, some subrounded gravel, trace coal, dry	
4	5.0	1.9	SM		2 Dark brown and strong brown silty SAND, fine, trace clay, trace slag, dry, odor	1-2
		2.5	MLS		3 Dark brown sandy SILT, fine, moist, some slag, some coal, trace subangular gravel, trace brick pieces, trace clay, odor	2-3
		1.7				
6	4.0	1.3			5	
		0.4	SP		6.2 Brown/dark gray SAND, medium to coarse, trace coal, trace gravel, dry	5-6
8	4.0	0.7	SP		6.3 Black SAND, medium, possible staining Brown/dark gray SAND, medium to coarse, trace coal, trace gravel, dry	6-7
			SM		7.5 Tan/white silty SAND, tight, dry	7-8
10	4.0	0.0	SP		7.9 Brown/dark gray SAND, medium to coarse, trace coal, trace gravel, last 2" moist	8-9
					10	9-10
12	5.0		SP		10.8 Brown/dark gray SAND, medium to coarse, trace gravel, tight, moist	10-11
			SP		11.3 Brown SAND, medium to coarse, trace gravel, tight, moist to saturated	
			SP		12.9 Dark gray SAND, medium, some silt, trace gravel, soft, saturated	
14	5.0	0.0	SM		12.9 Dark gray silty SAND, medium grained, soft, moist	
					15	

Remarks:

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
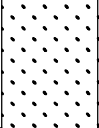



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448483.84 Easting: 1325194.48	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/15/2017	Drilling Method: DPT	Total Depth (ft): 15
Finish Date: 8/30/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	FILL		0.4 Gravel Cover	
			SM		1 Strong brown and brown silty SAND, fine, with subrounded gravel, saturated from rain, some clay	0-1
			SM		2 Strong brown sandy SILT, fine, trace clay, with black crushed fill and slag, odor	1-2
			SM		3 Dark brown and black sandy SILT, fine, some slag, brick pieces, trace subrounded gravel, moist, odor	
			SM		4 Strong brown and brown sandy SILT, fine, with gravel, some slag	
			SM		5 Strong brown and brown sandy SILT, fine, with gravel, some slag, moist	
6	2.9	0.0	SM		6 Brown gray silty SAND, some gravel, trace coal, slag, tight, dry	5-6
						6-7
						7-8
						8-9
						9-10
12	2.9	0.0	SM		10 Brown gray silty SAND, some gravel, trace coal, slag, tight, moist	10-11
			FILL		10.8 Brick	
			OL		11 Dark gray, black SILT, soft, moist	
			SP		12 Black SAND, coarse	
14			OL		12.1 Dark gray, black SILT, soft, moist	
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						

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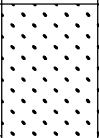
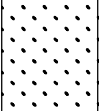
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447833.81 Easting: 1325692.69	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/22/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/22/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	1.3	ASPHALT		Asphalt	0-1
2			SM		Brown silty SAND, fine to medium, little angular gravel, small to large, little coarse sand, trace cobbles, trace fill(brick fragments), moist, faint odor	1-2
4		1.0	SM		Dark brown silty SAND, fine, little angular gravel, small to large, moderate odor, trace fill (coal), moist	2-3
		1.8	CL		Dark grayish brown silty CLAY, trace angular gravel, small to large, trace fill (wood fragments), moist, moderate odor	3-4
		0.4	SM		Dark grayish brown silty SAND, fine, some angular gravel, small to large, faint odor, moist	4-5
6						5-6

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447840.60 Easting: 1325644.66	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/22/2017	Drilling Method: DPT	Total Depth (ft): 4.8
Finish Date: 8/22/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	4.8	0.1	ASPHALT		Asphalt	
2			SM		0.8 0.9 Base Brown silty SAND, fine, little subangular gravel, small to large, moist, faint odor	1-2
		0.1	SM		3 Dark grayish brown silty SAND, fine, some subrounded gravel, small to large, little fill (wood fragments), moist, faint odor	2-3
4			1.0		4.8	3-4 4-5

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447879.86 Easting: 1325733.14	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/17/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	ASPHALT		0.5 Asphalt	0-1
			FILL		1.1 Gravel base	
SM			2 Dark brown silty SAND, fine, with subangular gravel and slag, dry	1-2		
SM			2 Dark brown silty SAND, fine, with subangular gravel and slag, brick pieces, dry	2-3		
SM			3 Brown silty SAND, fine, with subangular gravel, some medium sand, moist	3-4		
SM			5 Brown silty SAND, fine, with subangular gravel, some medium sand, with large concrete pieces and stones, moist	4-5		
6		0.0	SM		6 Brown silty SAND, fine, with subangular gravel, some medium sand, with large concrete pieces and stones, moist	5-6

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






Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447873.44 Easting: 1325618.56	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 5.1
Finish Date: 8/16/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	5.1		ASPHALT		Asphalt Cover	0-1	
2			CONCRETE		Concrete Slab		
							2-3
4		0.0	SM		Dark brown silty SAND, fine, with subangular gravel, trace coal pieces, wood debris, moist	3-4	
		0.9	SM		Black crushed fill with fine silty SAND, glass pieces, brick pieces, concrete, subangular and subrounded gravel, dry	4-5	
		0.0	SM		Black crushed fill with fine silty SAND, glass pieces, brick pieces, concrete, subangular and subrounded gravel, dry, large concrete block at 5.1'	5-6	

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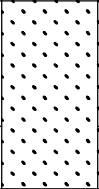
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447930.94 Easting: 1325619.16	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): 15
Start Date: 3/28/2018	Drilling Method: DPT	Total Depth (ft): 20
Finish Date: 8/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0				Previously Sampled	0-1
3						2-3
4		1.8	MLS		Dark brown sandy SILT, fine, little clay, little angular gravel, small to large, faint odor, moist	3-4
4		9.7	SM		Dark brown silty SAND, fine, little angular gravel, small to large, trace fill (glass), faint odor, moist	4-5
6	6.9					5-6
8	4.0	0.3	ML		Very dark brown SILT, little fine sand, little small angular gravel, moist, faint odor	6-7
10						7-8
10		0.7	ML		Dark grayish brown SILT, little clay, medium soft, moist	10-11
12	1.7	0.3	SP		Pale brown SAND, fine, medium dense, moist	11-12
14						
16	2.8		GP		Pale brown GRAVEL, small, subrounded, little fine sand, little large gravel, loose, wet	
18		0.0	SW		Light gray SAND, fine to coarse, little small subangular gravel, trace large gravel, very loose, wet	
20						

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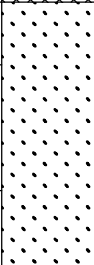
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447922.99 Easting: 1325659.63	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/17/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/17/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2					Hand cleared/soft dug to 5' bgs	0-1
4	6.0	0.0	SM		Dark brown silty SAND, fine, subangular gravel, coal pieces, moist	2-3
		0.0				3-4
		0.0	SM		Dark brown silty SAND, fine, subangular gravel, coal pieces, brick pieces, moist	4-5
6		0.0				5-6

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

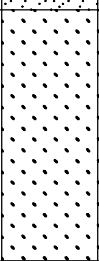
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447872.88 Easting: 1325761.23	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/18/2017	Drilling Method: DPT	Total Depth (ft): 5.2
Finish Date: 8/18/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.2		ASPHALT		0.5 Asphalt Cover	
			FILL		1 Gravel Base	
2		0.0	SM		2 Gravel and concrete with black fine silty SAND, glass pieces, dry	1-2
		0.0	SM		3 Brown silty SAND, fine, subangular gravel, concrete pieces, moist	2-3
4		0.0			4 Large gravel and concrete (2-4" diameter) with brown fine silty SAND, moist	3-4
		0.0	SM		5.2	4-5
	0.0				5-6	

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






Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447878.32 Easting: 1325581.45	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/24/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/24/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	ASPHALT		0.2 Asphalt	0-1
			CONCRETE		0.5 Concrete	
				0.9 Base course		
		0.0	SM		1.1 Brown silty SAND, fine, little subrounded gravel, small to large, moist	1-2
			SP		2 Brown SAND, fine, little silt, trace angular gravel, small to large, moist	
		0.4	SM		Dark brownish gray silty SAND, fine, little subangular gravel, small to large, trace fill (brick, slag), little medium to coarse sand, moist, faint odor	2-3
4	0.3				3-4	
	0.7				4-5	
6	0.5				5-6	

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447958.44 Easting: 1325595.71	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/24/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/24/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	3.7	ASPHALT		0.2 Asphalt	0-1
			SP		0.6 Base course	
4	6.0	18.8	SM		1.2 Yellowish brown SAND, fine, little silt, little medium to coarse sand, little subrounded gravel, small to large, moderate odor, moist	1-2
			SM		2 Dark brownish gray silty SAND, fine, little angular gravel, small to large, trace fill (wood, brick), moderate odor, moist	2-3
4	6.0		SM		3 Dark brownish gray silty SAND, coarse, some angular gravel, small to large, moist, faint odor	2-3
			SM		4 Dark brownish gray silty SAND, coarse, some angular gravel, small to large, moist, moderate odor	3-4
6	6.0		SM		5 Dark brownish gray silty SAND, coarse, some angular gravel, small to large, trace fill (brick, concrete), moist, moderate odor	4-5
			SM		6 Dark brownish gray silty SAND, fine, little angular gravel, small to large, little fill (brick, glass, rubber, coal, bottle cap), moist, moderate odor	5-6

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447949.89 Easting: 1325660.35	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/18/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/18/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0		ASPHALT		0.6 Asphalt Cover	
			FILL		1.1 Gravel base	
0.0		SM		2 Black and strong brown silty SAND, fine, with subangular gravel, odor, dry to moist	1-2	
1.1		SM		3 Black silty SAND, fine, with subangular gravel, and subrounded gravel, coal pieces, moist	2-3	
4		1.1	SM		4 Black silty SAND, fine, with subangular gravel, and subrounded gravel, coal pieces, trace brick pieces, moist	3-4
5		1.0	SM		5 Black silty SAND, fine, with large subangular gravel (2" diameter), and subrounded gravel, coal pieces, trace brick pieces, moist	4-5
6		1.3	SM		6 Black silty SAND, fine, with large subangular gravel (2" diameter), and subrounded gravel, coal pieces, glass pieces, slag, trace brick pieces, moist to wet	5-6

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




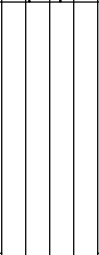

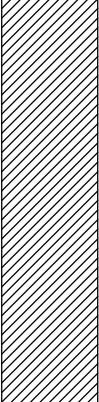

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447997.13 Easting: 1325664.31	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs):
Start Date: 1/25/2018	Drilling Method: DPT	Total Depth (ft): 19
Finish Date: 3/28/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		ASPHALT		0.4 Asphalt	
		0.6	SP		1 Reddish brown SAND, fine, little silt, little small to large round gravel, moist, faint odor	0-1
2		0.8	SM		2 Brown silty SAND, fine, trace small angular gravel, moist, faint odor	1-2
		0.0	SM		3 Dark grayish brown silty SAND, fine, trace clay, little fill (coal fragments), concrete cobbles from 2.8 to 3 ft.	2-3
4		2.7	ML		4 Dark gray SILT, some fine sand, little small to large angular gravel, dry, moderate odor, little wood fragment fill, wood up to 4" diameter	3-4
		0.5	ML		4 Dark gray SILT, some fine sand, little small to large angular gravel, dry, moderate odor, little wood fragment fill, wood up to 4" diameter, wood stained black	4-5
6		0.3			6	5-6
		0.4	MLS		6 Very dark gray sandy SILT, fine, little small angular gravel, stiff, moist, faint odor	6-7
8						7-8
10						10
	3.0	0.0	CL		10 Grayish brown silty CLAY, soft, low plasticity, moist	10-11
12			SP		11.2 Yellowish brown SAND, fine, little medium to coarse sand, moist, wet	11-12
14					15	
16	4.0	0.0	SP		15 Yellowish brown SAND, fine, little medium to coarse sand, some small to large subangular gravel at 16.8' to 17.4', moist, wet,	
18			SP		18 Brownish yellow SAND, fine, medium loose, wet	
		0.0			19	

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448018.53 Easting: 1325561.19	Drilling Company: GSI
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs):
Start Date: 2/1/2018	Drilling Method: DPT	Total Depth (ft): 18.4
Finish Date: 3/28/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0		ASPHALT		0.5 Asphalt	
		0.0	SP		1 Reddish brown SAND, fine, some small to large round gravel, little silt, trace wood fill, moist	0-1
2		3.2	SM		2 Dark brown silty SAND, some fine to coarse angular gravel, moderate odor, moist	1-2
		0.0	MLS		3 Very dark gray fine sandy SILT, little small to large gravel, trace glass fill, dry, cobble sized concrete blocks from 2.8 to 3.2 ft.	2-3
4		0.0	GW		4 Brown GRAVEL, small to large, angular, (concrete and cobble fragements), some fine to coarse sand, little silt, dry	3-4
		1.2	MLS		5 Dark grayish brown sandy SILT, fine to coarse, some gravel, small to large, angular, dry, faint odor	4-5
6	3.6	MLS		6 Dark grayish brown fine to coarse sandy SILT, some small to large angular gravel, dry, faint odor, some wood fragments, trace brick and metal	5-6	
	2.1	1.4	ML		Very dark brown SILT, little fine sand, faint odor, moist	6-7
8						7-8
10						
	3.2	0.0	ML		10 Dark gray clayey SILT, moist, soft	10-11
12		0.0	CL		11 Pale brown CLAY, some silt, very soft, low plasticity, moist	11-12
14						
16		0.0				
	3.4	0.0	SP		17.5 Gray SAND, fine, little small subrounded gravel, medium dense, wet	
18					0.0	

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447875.01 Easting: 1325525.12	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/1/2008	Drilling Method: DPT	Total Depth (ft): 5.8
Finish Date: 2/1/818		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.8	0.0	ASPHALT		Asphalt	0-1
			SM SM		1 Reddish brown silty SAND, fine to medium, little small to large rounded gravel, moist, faint odor Brown silty SAND, fine, little small to large angular gravel, cobbles, metal plate at 1.8', moist, faint odor	
0.1		FILL		2 Brown GRAVEL and concrete/brick FILL, small to large, angular, some fine silty sand, concrete boulder at 2.8' - 3.1', moist, faint odor	1-2	
0.1		SM		3 Brown silty SAND, fine, some small to large angular gravel, little fill (rubber, slag, brick, coal, concrete), moist, faint odor	2-3	
0.1		SM		4 Brown silty SAND, fine, some small to large angular gravel, little fill (rubber, slag, brick, coal, concrete), moist, faint odor	3-4	
0.1		SM		5 Brown silty SAND, fine, some small to large angular gravel, little fill (rubber, slag, brick, coal, concrete), moist, faint odor	4-5	
0.0		SP		5.8 Brown SAND, fine, little silt, moist	5-6	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448060.85 Easting: 1325666.07	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/21/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 2/21/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2 4 6	6.0	0.0	ASPHALT		0.5 Asphalt	
		0.0	SP		1 Yellowish brown SAND, fine, little small to large rounded gravel, moist	0-1
		0.0	SM		2 Dark brown silty SAND, fine, some small to large angular gravel, with cobbles (concrete fragments), moist	1-2
		0.0	ML		3 Pale brown SILT, little small to large angular gravel, trace fill (brick), moist	2-3
		0.0	GW		4 Dark brown sandy GRAVEL, fine to coarse, small to large, angular, little silt, little fill (concrete fragments) with cobbles, moist	3-4
		0.0	ML		5 Dark brown sandy SILT, fine, little small to large angular gravel, trace fill (ceramic, glass, slag), moist	4-5
		0.0			6	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448093.41 Easting: 1325509.01	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/21/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 2/21/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	6.0	0.0	ASPHALT		Asphalt		
					0.7		
				SP SM		1 Yellowish brown SAND, fine, some small to large rounded gravel, little silt, moist	0-1
2		0.0				Very dark gray silty SAND, fine, some small to large angular gravel, little fill (concrete fragments), with cobbles, moist	1-2
		0.0				3	2-3
4		1.1	SM			Very dark gray silty SAND, fine, some small to large angular gravel, little fill (concrete fragments), with cobbles, moist, faint odor	3-4
		0.0	SM			4 Black stained silty SAND, fine, some small to large angular gravel, some fill (concrete, metal, brick, glass, coal, fabric), moist	4-5
6	0.6	SM			5 Black stained silty SAND with slag and organic fibers, fine, some small to large angular gravel, some fill (concrete, metal, brick, glass, coal, fabric), moist	5-6	
					6		

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447891.38 Easting: 1325477.01	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/21/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 2/21/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	ASPHALT		0.4 Asphalt	
			CONCRETE		0.9 Concrete	
			SM		1.1 Brown fine silty SAND, little small to large round gravel, moist Dark grayish brown fine silty SAND, little fine to coarse angular gravel, moist	
			FILL		3 Very dark gray stained COBBLES (concrete fragments), some fill (metal bolts), some small to large angular gravel, little fine to coarse sand, trace silt, moist, asphalt covering half of hole at 3.5 ft.	
			SM		4 Dark grayish brown fine silty SAND, some small to large angular gravel, moist	
			SP		5 Pale brown fine SAND, little small to large angular gravel, trace slag fill, moist	
6						

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448114.90 Easting: 1325656.18	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/15/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 3/15/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	1.4	ASPHALT		0.6 Asphalt	0-1
			SM		1 Strong brown silty SAND, fine, some small to large rounded gravel, faint odor, moist	
1.7		SM		2 Dark brown silty SAND, fine, some small to large subangular gravel, little fill (concrete fragments), with cobbles, moist	1-2	
6.8		SM		Dark brown silty SAND, fine, some small to large subangular gravel, little fill (concrete fragments), trace coal, with cobbles, moist	2-3	
4		8.3	SM		4 Dark brown silty SAND, fine, some small to large subangular gravel, little fill (concrete fragments), trace coal, with cobbles, moist	3-4
		0.0	CL		5 Gray CLAY, medium plasticity, trace wood fragments, moist	4-5
6	0.0	CL		6 Strong brown silty CLAY, little fine sand, moist		

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448155.78 Easting: 1325459.80	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/15/2018	Drilling Method: DPT	Total Depth (ft): 5.2
Finish Date: 3/16/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.2	0.0	ASPHALT		0.5 Asphalt	
			SP		1 Pale brown SAND, fine, some small to large angular gravel, little silt, moist	0-1
4	5.2	6.0	SM		2 Mixed pale and dark brown silty SAND, fine, some small to large angular gravel, with cobbles, faint odor, moist	1-2
		0.3	SP		2.7 Brown SAND, fine to medium, some small to large angular gravel, with cobbles, little silt, some fill (concrete fragments), faint odor, moist	2-3
			CONCRETE		3.4 Concrete block	
		0.0	SM		4 Brown silty SAND, fine, some small to large angular gravel, with cobbles, moist	3-4
		0.2	SM		Dark brown silty SAND, fine, some small to large angular gravel, with cobbles, faint odor, moist	4-5
		0.7			5.2	5-6

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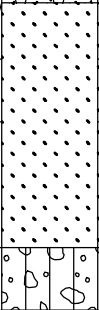
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447898.64 Easting: 1325427.49	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/16/2018	Drilling Method: DPT	Total Depth (ft): 3.7
Finish Date: 3/16/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	3.7	1.0	ASPHALT		Asphalt	0-1
			SW SM		0.7 1 Yellowish brown SAND, fine to coarse, little small rounded gravel, trace large rounded gravel, trace silt, dry, faint odor Brown silty SAND, fine, little small angular gravel, trace fill (slag), faint odor, moist	
		2.0	SM		2 Very dark brownish gray silty SAND, fine, little small to large angular gravel, little fill (slag, coal, concrete fragments), trace coarse sand, moist, moderate odor	1-2
		2.8				2-3
		1.1			3.7	3-4

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448158.39 Easting: 1325663.16	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/5/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 4/5/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	TOPSOIL SM		0.1 Organics/top soil	
			SM		1 Brown silty SAND, fine, some small to large angular gravel, trace fill (brick), trace organics, moist	0-1
2		0.0	SM		2 Brown silty SAND, fine, some small to large angular gravel, trace fill (coal), moist	1-2
		0.0	SM		3 Dark brown silty SAND, fine to coarse, some small to large angular gravel, little fill (concrete), with cobbles, moist	2-3
4		0.0	MLG		4 Yellowish brown gravelly SILT, small to large, angular, some fill (concrete, metal), moist	3-4
		0.0		5		4-5

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448200.55 Easting: 1325414.81	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/5/2018	Drilling Method: DPT	Total Depth (ft): 4.5
Finish Date: 4/5/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	4.5	0.0	TOPSOIL MLS		0.1 Organics/top soil Dark brown sandy SILT, fine, trace fill (coal, Belgium block), moist	0-1
2		0.0	SW		Very dark gray SAND, fine to coarse, some gravel, small to large, angular, little silt, little fill (concrete), with cobbles, moist	1-2
		0.0	MLG		Yellowish brown gravelly SILT, small to large, angular, some cobbles, with concrete boulders, moist	2-3
4		0.0	GW		Brown GRAVEL, small to large, angular, little silty sand, fine to coarse, with cobbles and boulders, moist	3-4
		0.0				4.5

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447903.12 Easting: 1325377.32	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/5/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 4/5/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	0.3	ASPHALT		0.6 Asphalt	
			SM		1 Yellowish brown silty SAND, fine, some gravel, small to large, angular, faint odor, dry	0-1
2		0.7	SP		Yellowish brown SAND, fine, little silt, dry	1-2
		0.2				2-3
4		0.1			4	3-4
		0.0	SP		Yellowish brown SAND, fine, little silt, moist to wet	4-5
6		0.0			6	5-6

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447909.33 Easting: 1326050.65	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/24/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/24/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.8	ASPHALT		Asphalt	0-1
			SM		Light gray silty SAND, fine, some angular gravel, small to large, dry to moist, faint odor	
0.1		ASPHALT		Asphalt	1-2	
0.0		SM		Brown silty SAND, fine, some angular gravel, small to large, little fill (brick), moist	2-3	
4		CONCRETE		concrete block	3-4	
	MLS		Dark brown sandy SILT, fine, little round gravel, small to large, moist, trace fill (glass)			

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447992.22 Easting: 1326031.48	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/25/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/25/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	FILL		0-10" asphalt; 10-16" CR6, gravel	
		0.0	FILL		1.3 Black STONE (>1"), large, some coarse sand, trace gravel, dry	1-2
0.0		FILL		2.2 Concrete slab		
0.0		SP		2.5 3 Dark brown SAND, medium, trace small gravel, some stones (<1/2"), dry	2-3	
0.0		SP		3 4 Dark brown/brown SAND, medium, trace small gravel, some stones (<1/2"), brick fragments, dry		
4		0.0				
		0.0				

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
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447895.61 Easting: 1326110.03	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/28/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.1	ASPHALT		0-0.5' asphalt; 0.5-0.7' gravel base course	0-1
		0.0	SM FILL		Brown silty SAND, some angular gravel, small to large, little fill (concrete), moist, faint odor	0-1
		0.0	MLS		Concrete blocks/boulders	1-2
			MLS		Brown sandy SILT, fine, little round gravel, small to large, moist	1-2
			MLS		Strong brown sandy SILT, fine, little round gravel, small to large, little sand, wet	2-3
4						

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447829.51 Easting: 1326045.73	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/28/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/28/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		0-0.7' asphalt; 0.7-0.9' gravel base course	0-1
		1.8	SM		Brown silty SAND, fine, little sand, medium to coarse, little round gravel, small to large, trace cobbles, moist, faint odor	1-2
		0.4	SM		Brown silty SAND, fine, some angular gravel, small to large, little medium to coarse sand, little fill (concrete fragments), little cobbles, moist	2-3
		0.0	ML		Brown clayey SILT, little fine to coarse sand, little subround gravel, small to large, moist, trace fill (slag)	3-4
4						4-5

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447856.82 Easting: 1325934.85	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/24/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/24/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		Asphalt	0-1
		1.5	GW		0.7 Light brown angular GRAVEL, small to large, some fine to coarse sand, trace silt, dry	
			SP		1.3 Strong brown SAND, fine, little silt, trace small angular gravel, moist to wet	
		0.0			3 Yellowish brown silty SAND, fine, trace small to large subround gravel, moist	
		0.1	SM		4 Yellowish brown silty SAND, fine, trace small to large subround gravel, moist	
4			OL		5 Yellowish brown SILT, little fine sand, trace small to large subround gravel, trace fill (brick), coal, moist	

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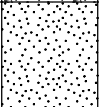
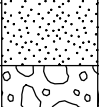

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447939.82 Easting: 1325963.13	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/25/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/25/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	CONCRETE		0-8" concrete; 8-15" CR6, gravel	
			SP		Brown SAND, fine to medium, some silt, some gravel, some stones (<1/2"), moist	1-2
4	5.0	0.0	SP		Brown SAND, fine to medium, some silt, some gravel, some stones (<1/2"), brick and concrete fragments, moist	2-3
			GP		Stone and gravel, large, some fine to medium sand, limited sample volume, dry	3-4
			GP		Stone and gravel, large, some fine to medium sand, limited sample volume, dry	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447975.41 Easting: 1325970.50	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/25/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/25/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	CONCRETE		0-8.5" concrete; 8.5-15" CR6, gravel	
			SP		Brown SAND, fine to medium, some silt, some stones (1/2" - 1"), trace gravel, moist	1-2
0.0						
0.0		SP		Brown SAND, fine to medium, silty sand, some silt, some stones (1/2" - 1"), trace gravel, moist to wet		
0.0		GP		Gray GRAVEL, some coarse sand, moist to wet		

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447912.71 Easting: 1325877.44	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/26/2018	Drilling Method: DPT	Total Depth (ft): 4.5
Finish Date: 1/26/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	4.5	0.0	ASPHALT		Asphalt	0-1
			SW-GW		Gray SAND and GRAVEL (base course), fine to coarse, small to large, angular, dry	
2		0.0	SM		Dark brown silty SAND, fine to coarse, some gravel, small to large, subangular, cobble/fill (brick, concrete fragments), moist	1-2
		0.0	GW		Dark brown sandy GRAVEL, small to large, little silt, cobbles/fill (concrete fragments, brick), moist	2-3
4		0.0				
		0.0				4.5

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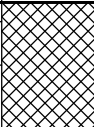
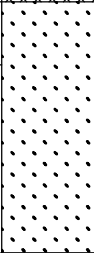
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447916.14 Easting: 1325846.60	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/21/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/21/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		0.6 Asphalt	
			GW		1 Gray sandy GRAVEL (base coarse), well graded, angular, moist	0-1
0.0		SP		2 Brown SAND, fine, some silt, little small to large gravel, angular, moist	1-2	
0.0		ML		3 Brown SILT, some small to large gravel, angular, little fill (brick), trace fine sand, moist		
0.0		MLS		4 Brown sandy SILT, fine, little small to large gravel, angular, trace fill (brick), trace clay, moist		
4		0.0	SW		5 Brown SAND, fine to coarse, some small to large gravel, angular, little silt, trace fill (metal), wet	

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448493.79 Easting: 1324735.90	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/8/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/8/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	FILL		0.3 Stone cover	
			FILL		1 Black crushed fill material and slag, some fine sands	0-1
0.0		FILL	2 Black crushed fill material, some slag, some subangular gravel, some fine sands	1-2		
0.0		SM	3 Brown silty SAND, fine, some slag, some brick pieces, moist to wet	2-3		
0.0		SM	4 Brown silty SAND, fine, some brick pieces, moist to wet	3-4		
0.0			5	4-5		
6		0.0			6	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448535.24 Easting: 1324708.61	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/9/2017	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 8/9/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	0.0	FILL		0.5 Stone cover	
			GP		1 Subangular GRAVEL, some black crushed fill, some organics (root debris)	0-1
2		0.0	SM		2 Dark brown silty SAND, fine, some subangular gravel, some subrounded gravel, moist	1-2
		0.0	SM		3 Strong brown silty SAND, fine, some subrounded gravel, trace slag, trace subangular gravel, moist	2-3
4		0.0	MLS		4 Strong brown sandy SILT, fine, trace subangular gravel, moist	3-4
		0.0	MLS		5 Strong brown sandy SILT, fine, trace subangular gravel, trace clay, moist	4-5
6		0.0			6	

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448623.32 Easting: 1324764.25	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/9/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/9/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		0-0.7' asphalt; 0.7-1.2' gravel base	
			SM		Brown silty SAND, fine, some clay, some subrounded gravel, moist	1-2
SM			Brown silty SAND, fine, some clay, moist	2-3		
FILL			Black fill, bricks, gravel, asphalt	3-4		
FILL			Fill, bricks, large gravel (~6-8" diameter)	4-5		

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 448431.10 Easting: 1324725.50	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.3	GP		0.1 Gravel ground cover	
			CL SW		0.5 Orange silty CLAY, low plasticity, trace coarse sand, slightly moist	0-1
			SWG		1 Light gray SAND, fine to coarse, some white fill gravel, small to large, angular, trace silt, dry	
					2 Dark brown gravelly SAND, fine to coarse, small to large, gravel includes brick fragments, coal slag and rounded to subrounded rock, trace silt, slightly moist to dry, creosote-like odor	1-2
					3 Medium brown sandy SILT, few sand, very fine to coarse, trace small gravel, subrounded, dry	2-3
4			MLS		4 Medium brown sandy SILT, few sand, very fine to coarse, little gravel, small to large, subangular to subrounded, trace orange silty clay, dry	
			SM		5 Medium dark brown silty SAND, very fine to coarse, few silt, little gravel, small to large, subangular to subrounded, trace glass fragments, dry	

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 448566.93 Easting: 1324667.56	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	GP SWG		0.1 Gravel ground cover	0-1
		0.0	SWG		0.4 Medium orange brown gravelly SAND, fine to coarse, small to large, little silt Black gravelly SAND, very fine to coarse, small to large, subangular to subrounded, little silt, slightly moist	
4	5.0	0.0	GWS		1.4 Gray gravelly SAND, very fine to coarse, small to large, subangular to subrounded, gravel includes slag, little silt, slightly moist	1-2
		0.0	GC		2 Very dark brown sandy GRAVEL, small to large, angular to subrounded, mostly slag (yellowish/reddish), fine to coarse sand, creosote-like odor	
4	5.0	0.0	GC		3 Orange and brown clayey GRAVEL, small to large, angular to subrounded, little sand, fine to coarse, trace rounded cobble, gravel consists primarily of rocks with several pieces of slag, slight odor	
		0.0	GW		4 Dark brown SLAG, gravel sized, small to large, little sand sized slag, coarse, wet at 4.2'	
		0.0			5	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448580.85 Easting: 1324646.98	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/23/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/23/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	ASPHALT		Asphalt	
2		0.0	SM		Dark brown silty SAND, fine, some small to large gravel, angular, trace medium to coarse sand, moist	1-2
		0.0	ML		Brown SILT, little fine sand, little small to large GRAVEL, angular, little fill (slag), moist	2-3
4		0.0	SM		Brown silty SAND, fine, some small to large gravel, angular, some fill (slag, brick), with cobbles, moist	
		0.0	CL		Grayish brown silty CLAY, little fine sand, little small to large gravel, angular, little fill (brick), moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448415.79 Easting: 1324673.89	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/23/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/23/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	SM		1 Dark brown silty SAND, fine, some small to large gravel, angular, trace fill (coal), moist	0-1
		1.8	MLS		2 Dark grayish brown sandy SILT, fine, some small to large gravel, angular, trace fill (brick, fabric), moist, faint odor	1-2
0.1		GP		3 Very dark gray GRAVEL, large, angular, little fine to coarse sand, little large gravel, angular, trace silt, trace fill (slag, fabric), moist, moderate odor	2-3	
0.0		ML		4 Yellowish brown SILT, little fine sand, moist, faint odor		
0.0		ML		5 Yellowish brown SILT, little very fine sand, trace fine gravel, angular, moist		

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

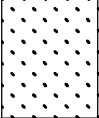
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448605.21 Easting: 1324618.67	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/15/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 3/15/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	ASPHALT		Asphalt	0-1
			GW			
2		0.0	SM		Brown GRAVEL, small to large, angular, little fine sand, dry	1-2
					Strong brown silty SAND, fine, moist	
					Strong brown silty SAND, fine, some gravel, small to large, angular, little fill (brick fragments), moist	
4		0.0	ML		Brown SILT, little gravel, small to large, angular, moist	
					Brown SILT, little gravel, small to large, angular, with cobbles, moist	
		0.0	ML			

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
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448849.57 Easting: 1324730.55	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/9/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/9/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		CONCRETE		0-0.6' concrete pad; 0.6-1.2' gravel base	
2		0.0	SM		Strong brown silty SAND, fine, moist	1-2
		0.0	SM		Strong brown silty SAND, fine, with subrounded gravel, moist	1.5-2.5
		0.0				2-3
4		0.0				3-4
		0.0				

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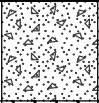




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448892.64 Easting: 1324703.62	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/9/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/9/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		CONCRETE		0-0.6' concrete pad; 0.6-1.2' gravel foundation beneath concrete pad	
2			SM		1.2 Strong brown and black silty SAND, fine, some subrounded gravel, moist	1.5-2.5
		0.0			3 Strong brown silty SAND, fine, some subrounded gravel, moist	2-1
4		0.0	SM		4 Strong brown silty SAND, fine, with subrounded gravel, moist	3-4
		0.0	SM		5 Strong brown silty SAND, fine, with subrounded gravel, moist	

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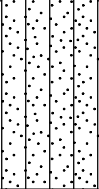
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448892.38 Easting: 1324696.18	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/9/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/9/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		CONCRETE		0-0.6' concrete pad; 0.6-1.6' gravel base	
2		0.0	SM		1.6 2 Strong brown and black silty SAND, fine, some subrounded gravel, moist	1-2
			SM		3 Strong brown silty SAND, fine, some subrounded gravel, moist	2-3
		0.0	SM		4 Strong brown silty SAND, fine, trace subangular gravel, moist	
4		0.0	SM		5 Reddish brown silty SAND, fine, some subrounded gravel, moist	

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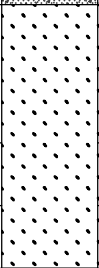
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 448346.01 Easting: 1325216.80	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/26/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/26/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	No PID reading	ASPHALT		Asphalt	0-1
			FILL		Brown to light brown FILL, firm to soft, sandstone cobbles, small	1-2
2			MLS		Light brown SILT and SAND, fine to coarse, compacted, firm, some sandstone cobbles, small	
4			MLS		Dark brown to black SILT and SAND, coarse to medium, abundant sandstone cobbles, glass and other debris present	2-5

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
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448345.86 Easting: 1325244.46	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/15/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/15/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		ASPHALT		0-0.3' asphalt cover; 0.3-0.8' gravel base	0-1
		0.0	SM		Brown and dark brown silty SAND, fine, with subrounded and subangular gravel, wet	1-2
2		0.0				
		0.0	SM		Brown and dark brown silty SAND, fine, with strong brown clay, wet	
4		0.0	SM		Brown silty SAND, fine, with well graded gravel, large concrete (~4-5" diameter), wet	
	0.0					

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



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448319.24 Easting: 1325218.19	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/16/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		ASPHALT		0-0.3' asphalt cover; 0.3-1' gravel base	
2		0.0	FILL		Black crushed fill with fine silty SAND, some subangular gravel, some slag, dry	1-2
		0.0	SM		Dark brown silty SAND, fine, some subangular gravel, brick pieces, dry	
4		0.0	SM		Dark brown silty SAND, fine, some subangular gravel, brick pieces, moist	
		1.6	MLS		Brown sandy SILT, fine, some subangular gravel, coal pieces, moist, odor	

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448345.59 Easting: 1325185.71	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/16/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/16/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		ASPHALT		0-0.5' asphalt; 0.5-1.2' gravel base	
2		2.2	SM		Strong brown silty SAND, fine, with subangular gravel, moist	1-2
		0.0	MLS		Strong brown sandy SILT, fine, slag, moist	
4		0.0	SP		Black and brown SAND, fine, some silt, some subangular gravel, moist	
		0.0				

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448343.97 Easting: 1325274.15	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	ASPHALT SW		0.3 Asphalt	
		0.0	SM		1 Gray SAND, fine to coarse, some silt, little small to large gravel, angular, moist	0-1
2		0.0	SM		2 Dark brown silty SAND, fine, little small to large gravel, angular, little fill (brick fragments, slag), moist	1-2
		0.0	SM		3 Dark brown silty SAND, fine, little small to large gravel, angular, little fill (brick fragments, slag), boulder-sized concrete fragment at 2.7', moist	
		0.0	SM		4 Dark brown silty SAND, fine, little small to large gravel, angular, little fill (brick fragments, slag, glass, wood, wire), moist	
4		0.0	ML		5 Dark brown SILT, some small to large gravel, angular, little fine sand, little fill (concrete fragments, wood, metal, wire), moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448475.33 Easting: 1324939.37	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/11/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/11/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		ASPHALT		0-0.6' asphalt cover; 0.6-0.9' gravel base	0-1
		1.6	SM		0.9-1.1' Dark brown silty SAND, fine, with subrounded gravel, trace to some clay, moist, odor	
2		1.7			1.1-1.2' Dark brown silty SAND, fine, trace to some clay, trace slag, trace coal, moist, odor	1-2
		0.0	OL		1.2-1.3' Gray and strong brown SILT, some fine sand, dry to moist	2-3
		0.0	SP		1.3-1.4' Strong brown and black SAND, fine, some tan clay, some coal, moist	
4		0.0	SP		1.4-1.5' Strong brown and black SAND, fine, trace coal, moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448474.34 Easting: 1324964.26	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/11/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/11/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
			ASPHALT		0-0.6' asphalt cover; 0.6-0.9' gravel base	
					0.9	0-1
	1.2		SM		Brown silty SAND, fine, some subrounded gravel, moist to wet, odor	
2	1.6				2	1-2
			SP		Strong brown SAND, fine, some clay, moist	
	5.0	0.0			3	2-3
			SP		Strong brown SAND, fine, some clay, some coal, moist	
4		0.0			4	
			SP		Strong brown and black SAND, fine, some silt, some subangular gravel, some subrounded gravel, trace coal, moist	
		0.0			5	

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448444.52 Easting: 1324942.27	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/11/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/11/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0		ASPHALT		0.6 Asphalt cover	
		3.2	SM		1 Strong brown silty SAND, fine, with subrounded gravel, dry, odor	0-1
		0.0	MLS		2 Strong brown sandy SILT, fine, some clay, with brown fine sand, some subangular gravel, trace subrounded gravel, moist	1-2
		0.0	MLS		3 Strong brown sandy SILT, fine, some clay, moist	2-3
		0.0	SP		4 Strong brown and black SAND, fine to medium, some silt, some coal pieces, trace subrounded gravel, moist	3-4
4		0.0	SP		5 Strong brown and brown SAND, fine to medium, some silt, some subangular gravel, trace coal, moist	4-5

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448598.52 Easting: 1324848.39	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/10/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/10/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0		FILL		0.5 Gravel cover	0-1
			SP		Brown SAND, fine to medium, some subrounded gravel, trace slag, dry to moist, odor	1-2
4	5.0	6.3			2 Brown silty SAND, fine, some subrounded gravel, plastic debris, moist, odor	2-3
		3.5	SM		Brown silty SAND, fine, some subrounded gravel, plastic debris, moist, odor	
		1.3			4 Brown silty SAND, fine, some subrounded gravel, some clay, plastic debris, moist, odor	
		0.0	SM		5 Brown silty SAND, fine, some subrounded gravel, some clay, plastic debris, moist, odor	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448652.69 Easting: 1324851.34	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/8/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/8/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0		FILL		0.3 Stone cover	
		1.9	SM		1 Dark brown silty SAND, fine, some angular gravel, moist, faint odor	0-1
0.2		FILL		2 Black crushed FILL (slag, debris), grain size of silt to cobbles, wet	1-2	
0.2		SM		3 Strong brown silty SAND, moist	2-3	
4		0.0	OL		4 Strong brown SILT, some fine sand, some clay, moist to wet	
		0.0			5	

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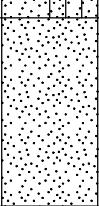
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 448672.62 Easting: 1324852.92	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	GP GPS		0.1 Gravel ground cover White GRAVEL (fill) and dark brown silty SAND, very fine to coarse, dry	0-1
2		0.0	SWG		1 Very dark brown gravelly SAND, very fine to coarse, small to large (primarily small, rock and slag), angular to subrounded, dry	1-2
		0.1	SP-SC		2 Medium orange-brown SAND intermixed with light gray chunks of clay, very fine to fine, medium to low plasticity, orange mottling in clay, dry	
4		0.0	SP-SC		3 Medium orange-brown SAND intermixed with light gray chunks of clay, very fine to fine, medium to low plasticity, orange mottling in clay, slightly moist	
		0.0	SP-SC		4 Medium orange-brown SAND intermixed with light gray chunks of clay, very fine to fine, medium to low plasticity, orange mottling in clay, slightly moist	
		0.0	FILL		4.4 Medium orange-brown SAND intermixed with light gray chunks of clay, very fine to fine, medium to low plasticity, orange mottling in clay, slightly moist 5 Black FILL, gravel-sized, small	

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Matt Spencer
Project: Benning Road Facility	Northing: 447972.38 Easting: 1325144.63	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/31/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/31/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		0.5 Asphalt	0-1 1-2 2-5
			FILL		1 Light brown to brown silt and sand and clay FILL, firm to soft, loose, sandstone cobbles, small to large	
			SP-SM		2 Light brown SAND and SILT, coarse, soft, very loose, some clay matrix, mottled gray clay present	
			SP		5 Light brown to orange SAND and SILT and CLAY, soft, very loose, gray mottled clay, 4 and 5 ft. mostly clay, mottled gray	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448581.83 Easting: 1324922.32	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/10/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/10/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0		ASPHALT		0-0.5' asphalt cover; 0.5-1.1' gravel base	0-1
2		0.0	SM		1.1 2 Brown silty SAND, fine, some subrounded gravel, some subangular gravel, moist trace slag	
		0.0	SM		3 Brown silty SAND, fine, some subrounded gravel, some subangular gravel, moist trace slag, slight color change to strong brown	
4		0.0	SP		4 Strong brown SAND, fine to medium, some silt, some subrounded gravel, moist	
		0.0	SP		5 Strong brown SAND, fine to medium, some silt, some subrounded gravel, moist, slight color change to brown	

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448487.74 Easting: 1325094.21	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	GP		0.1 2" stone cover, rounded large gravel	
			SM		0.3 2" stone and dark brown silty SAND, fine, moist	
			ML		1 Dark brown silty SAND, fine, little small to large rounded gravel, moist	
					2 Dark brown fine sandy SILT, little clay, trace small angular gravel, dry	
			CL		2 Brown CLAY, little silt, trace fine sand, moist	
4			GW		4 Grayish brown GRAVEL, small to large, angular, some fine sand, little silt, little slag plastic fill, dry	
					5	

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 449141.01 Easting: 1324640.48	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/1/2008	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/1/818		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	1.0	SWG		Medium dark gray gravelly SAND, fine to coarse, small to large, angular to subrounded (fill gravel), mostly dry, odor, asphalt surface	0-1
		2.0	SWG		Medium orangish brown gravelly SAND, fine to coarse, small to large, angular to subrounded, moist, odor	1-2
4.1		CL-ML		Orangish brown silty CLAY and medium dark brown gravelly SILT, few gravel, small, subangular to subrounded, little coarse sand, trace organics (wood), slightly moist, odor	2-3	
2.4		GW-GM		Dark brown silty GRAVEL, small to large, angular to subrounded, little medium to coarse sand, trace organics (wood), trace slag material, trace clay, moist, odor	3-4	
0.4		GW-GM		Medium brown silty GRAVEL, small to large, angular to subrounded, little medium to coarse sand, trace organics (wood), trace slag material, little orangish-brown clay, moist, very slight odor	4-5	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 449117.35 Easting: 1324610.82	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/1/2008	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/1/818		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.9	SWG		Black gravelly SAND, fine to coarse, small to large, angular to subrounded (fill), trace silt, dry, slight odor, asphalt surface	0-1
		11.5	SW		Orangish dark brown SAND, very fine to coarse, mostly fine, little gravel, subangular to subrounded, trace silt, moist, odor	1-2
0.5		CL		Medium orangish brown silty CLAY, trace coarse sand, low plasticity, mostly dry, slight odor	2-3	
0.1		CH		Orangish gray CLAY, mottled, trace coal fragment, trace coarse sand, high plasticity, slightly moist, very slight odor		
0.1		CH		Orangish gray CLAY, mottled, trace coal fragments, trace subrounded gravel, trace coarse sand, high plasticity, slightly moist		

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Sharon Drummond
Project: Benning Road Facility	Northing: 449144.43 Easting: 1324591.54	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/1/2008	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/1/818		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	2.3	GWS		Black sandy GRAVEL, fine to coarse, small to large, angular to subangular, combination of fill gravel and slag, cobble (slag), strong odor, asphalt surface	0-1
		3.8	SWG		Dark brown gravelly SAND, very fine to coarse, small to large, angular to subrounded, gravel includes slag and trace coal, strong odor	1-2
4.5		ML		Medium orange brown clayey SILT, little fine to coarse sand, trace small gravel, moist, odor	2-3	
4		0.3	CL		Dark brown silty CLAY, little small to large gravel, subangular to subrounded, trace sand, fine, low plasticity, moist, odor	3-4
		0.3	CH		Orange and dark brown CLAY with red and gray mottling, little subrounded gravel, high plasticity, moist, slight odor	4-5

Remarks:

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449137.96 Easting: 1324669.43	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/22/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/22/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	14.9	ASPHALT		0.4 Asphalt	
			SM		1 Brown silty SAND, fine to medium, some coarse sand, little small to large gravel, subrounded, moist, moderate odor	0-1
		10.2	SM		2 Brown well graded silty SAND, some gravel, small to large, subangular, trace fill (coal, brick), moist, faint odor	1-2
		23.1	SM		3 Brown silty SAND, fine, some gravel, small to large, subrounded, trace fill (coal, brick), moist, moderate odor	2-3
		6.1	SM		4 Brown silty SAND, fine, some gravel, small to large, subrounded, trace fill (coal, brick), moist, faint odor	3-4
4		0.7	CL		5 Dark brown silty CLAY, some gravel, small to large, angular, little sand, fine to coarse, moist, faint odor	4-5

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449096.22 Easting: 1324615.29	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/22/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/22/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	14.1	ASPHALT		0.6 Asphalt	0-1
			SW		1 Gray SAND, fine to medium, some small to large gravel, angular, little coarse sand, moist, faint odor	
8.0		ML		2 Pale brown SILT, trace small to large gravel, rounded, trace bill (brick), moist, faint odor	1-2	
0.8		CL		3 Grayish brown silty CLAY, trace sand, fine, moist, faint odor	2-3	
0.5		CL		4 Grayish brown CLAY, trace fill (brick, wood) with cobbles (concrete fragments), moist, faint odor	3-4	
4		1.2	SM		5 Brown silty SAND, fine to medium, some small to large gravel, rounded, trace clay, trace fill (brick, metal), moist, faint odor	4-5

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449145.05 Easting: 1324566.60	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/22/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 2/22/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.2	GP SM		0.2 Blue stone (3") ground cover	
					1 Dark brown silty SAND, fine, little small to large gravel, angular, moist	0-1
2		74.5	SM		2 Very dark gray silty SAND, fine, little small to large gravel, angular, little fill (slag), moist, strong odor	1-2
		75.2	SM		3 Very dark gray silty SAND, fine, little small to large gravel, angular, little fill (slag), wet, slight sheen, strong odor	2-3
4		14.5	ML		4 Dark grayish brown clayey SILT, little fine sand, little small to large gravel, angular, wet, slight sheen, strong odor	3-4
		12.9	FILL		5 Black SAND (coal fill), fine to coarse, trace small gravel, angular, wet, moderate odor	4-5

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing:	Easting:
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 7/2/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 7/2/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	ROCK SWG		0.2 Blue stone	
2		0.0	SWG		1 Dark orangish brown gravelly SAND, fine to coarse, small to large, subangular to subrounded gravel, trace light orange-gray clay, low plasticity, trace wood, dry, 0-2 inch of blue stone	
		0.0	SC		2 Dark orangish brown gravelly SAND, fine to coarse, small to large, subangular to subrounded gravel, trace light orange-gray clay, low plasticity, trace coal, trace wood, dry	
		0.0	CL		3 Orangish brown clayey SAND, fine to coarse, mostly fine/trace gravel, small to large, subangular to rounded, trace black silt, trace small black gravel (coal), moist	
4		0.0			4 Orange-brown and black sandy CLAY, fine to coarse, mostly fine, little, small to large, gravel, subangular to rounded, low plasticity, moist	
					5	

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449098.97 Easting: 1324538.67	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 6/29/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 6/29/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	2.6	SWG		0.2 Gravel/stone Dark brown gravelly SAND, fine to coarse, small to large gravel, angular to subrounded, trace silt, dry	0-1
		2.1	ML MLS		1.5 Medium orange-brown sandy SILT, fine, trace clay, slightly moist 2.1 Black gravelly SAND, fine to coarse, small, subrounded, trace orange silty clay, slightly moist	1-2
4	5.0	5.5	SWG CL	 	2.5 Medium orange-brown gravelly SAND, fine to coarse (primarily fine), small, subangular to subrounded, trace silt, moist 3 Light orange-brown CLAY, trace sand, fine, low plasticity, slightly moist	2-3
		10.2	ML		4 Medium dark brown clayey SILT, trace sand, fine to coarse, trace gravel, small to large, subangular to subrounded, low plasticity, trace roots, slightly moist, slight odor	
		7.7	MLS		5 Medium dark brown sandy SILT with red CLAY, silt includes little small gravel, fine to coarse sand, trace slag/coal, moist	

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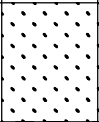


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449123.73 Easting: 1324539.51	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 5/31/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 5/31/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	4.2	SM		1 Brown silty SAND, fine, some small to large angular gravel, trace organics (roots), trace fill (plastic), moist	0-1
		5.0	SM		2 Brown silty SAND, fine, little small to large subrounded gravel, trace fill (coal, slag), moist	1-2
3.3		ML		3 Brown to black SILT, trace fill (slag), trace large angular gravel, moist	2-3	
4		0.2	SP		4 Mixed pale brown and black SAND, fine, little silt, trace small to large round gravel, moist	3-4
3.7		SM		5 Grayish brown silty SAND, fine, little small to large angular gravel, little fill (brick, slag), moist	4-5	
6		0.3	ML		6 Dark grayish brown SILT, little small to large angular gravel, trace fill (brick, concrete), moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449147.04 Easting: 1324540.35	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/15/2018	Drilling Method: DPT	Total Depth (ft): 4.3
Finish Date: 3/15/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	4.3	0.0	SM		0.1 Stone cover Very dark brown silty SAND, some small to large gravel, subrounded, trace coal, moist	0-1	
2		0.0			2	1-2	
		3.0	GW		Very dark gray GRAVEL, small to large, angular, little fine sand, little silt, moist to wet at 2.7', faint odor	3	2-3
4		1.5	CH		Strong brown and light gray mottled CLAY, high plasticity, stiff, wet, faint odor	4.3	3-4
		0.5					4-5

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 449147.59 Easting: 1324517.38	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/6/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 4/6/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	ML		0.2 Stone cover Yellowish brown sandy SILT, fine, little small angular gravel, moist	0-1
		0.0	ML		Yellowish brown SILT, fine, trace small angular gravel, trace fill (coal), moist	1-2
0.8		SP		Yellowish brown SAND, fine, little small to large rounded gravel, little silt, moist	2-3	
1.3		ML		Yellowish brown clayey SILT, trace small rounded gravel, moist	3-4	
0.0					4-5	
0.0						
6				6		

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
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing:	Easting:
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 7/2/2018	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 7/2/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.0	0.0	ASPHALT		0.5 Asphalt	
		0.0	GWS		1 Brown sandy GRAVEL, fine to coarse, small to large, angular to subangular, dry	
		0.0	SW-GW		2 Medium brown SAND and GRAVEL, fine to coarse, small to large, angular to subrounded, fill (concrete/rocks), trace silt, trace wood, moist	
		0.0	GWS		3 Medium brown sandy GRAVEL, fine to coarse, small to large, angular to subrounded, with fill (brick, metal, concrete), slightly moist	
4		0.0	GWS		4 Medium brown sandy GRAVEL, fine to coarse, small to large, angular to subrounded, with fill (metal, concrete), slightly moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447791.84 Easting: 1325974.27	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 7/2/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 7/2/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	ASPHALT		0.6 Asphalt	0-1
			GWS		1 Light gray-brown sandy GRAVEL, fine to coarse, small to large, angular, mostly dry	
		0.0	SW-GW		2 Dark brown SAND and GRAVEL, fine to coarse, small to large, angular to subrounded, trace orange clay (clumps), dry	1-2
			SWG		3 Medium orange-brown gravelly SAND, fine to coarse, small to large, subangular to subrounded, mostly fine sand, trace silt, slightly moist	2-3
		0.0	SP		5 Medium orange-brown gravelly SAND, trace gravel and fill (slag/concrete), subrounded to rounded gravel, trace sand, coarse, trace clay, moist	3-4
6		0.0		6		

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447805.33 Easting: 1325964.07	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 5/31/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 5/31/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
2	6.0	0.0	ASPHALT		Asphalt	0-1	
			GW		0.7		
1.1		SM		1.1	Gray GRAVEL, small to large, angular, some sand, fine to coarse, dry (base course)	1-2	
2.0				3	Brown silty SAND, fine to coarse, some gravel, small to large, angular, trace fill (slag), with cobbles, moist	2-3	
4		1.0	SM		4	Brown silty SAND, fine to coarse, some gravel, small to large, angular, trace fill (trace coal), with cobbles, moist	3-4
		0.0	SP		5	Strong brown SAND, fine, moist	4-5
6		0.0	SM		6	Brown silty SAND, fine, some gravel, small to large, angular, little fill (brick, slag), with cobbles, moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447789.83 Easting: 1325994.56	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 5/30/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 5/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	ASPHALT		0.5 Asphalt	
		0.0	GP		1 Gray GRAVEL (base course), large, angular, little small angular gravel, little sand, fine to coarse, dry	0-1
		0.0	SM		2 Brown silty SAND, fine, little gravel, small to large, angular, trace fill (brick, plastic), moist	1-2
		0.0	SM		2 Brown silty SAND, fine, some gravel, small to large, angular, moist	2-3
		0.0	SM		2 Brown silty SAND, fine, some gravel, small to large, angular, moist	3-4
		0.0	SC		4 Pale brown clayey SAND, fine, some silt, little gravel, small to large, angular, moist	4-5
6		0.0			6	

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



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447794.95 Easting: 1326003.15	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 5/30/2018	Drilling Method: DPT	Total Depth (ft): 5.4
Finish Date: 5/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.4	0.0	ASPHALT		0.6 Asphalt	0-1
			GP		1 Gray GRAVEL, large angular, some small angular gravel, little fine to coarse sand, dry	
		1009.0	ML		2 Dark brown SILT, little small to large subangular gravel, little fine sand, trace fill (brick), strong odor, moist	1-2
		10.3	ML		3 Brown SILT, little small to large subrounded gravel, trace fine to coarse sand, trace fill (coal), moist	2-3
		0.0	ML		4 Brown SILT, some small to large angular gravel, little fine to coarse sand, trace fill (concrete fragments), moist	3-4
		0.5	ML		5	4-5
		0.0	ML		5.4 Brown SILT, trace small to large angular gravel, moist	

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447800.07 Easting: 1326011.74	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 5/30/2018	Drilling Method: DPT	Total Depth (ft): 4.5
Finish Date: 5/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	4.5	0.0	ASPHALT		Asphalt	0-1
			GP		Gray GRAVEL, large, angular, little gravel, small, angular, little sand, fine to coarse, dry	
2		2.0	ML		Brown SILT, little gravel, small to large, angular, trace fill (brick, coal), moist	1-2
		0.0				2-3
		0.0	ML		Brown SILT, little gravel, small to large, angular, trace sand, fine, trace fill (coal), moist	3-4
4		0.1	ML		Brown SILT, some gravel, small to large, angular, little fine sand, trace fill (coal, slag, brick), moist	4-5

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447805.20 Easting: 1326020.33	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/4/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 4/4/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	0.0	ASPHALT		0.5 Asphalt	
			GW		1 Light gray GRAVEL (base course), small to large, angular, little fine to coarse sand, moist	0-1
2		57.0	ML		2 Brownish gray SILT, trace gravel, small, angular, trace tar-like material, moist, strong odor	1-2
		0.6	ML		3 Brown SILT, little fine sand, trace gravel, small, round, faint odor, moist	2-3
4		0.4	CL		4 Strong brown CLAY, some silt, little sand, fine, low plasticity, moist, faint odor	3-4
		0.0	MLS		5 Brown sandy SILT, fine, trace clay, trace gravel, small, round, moist	4-5
		0.0	MLS		6 Brown sandy SILT, fine, trace clay, trace gravel, small, round, moist to wet	5-6
6		0.0				

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447810.29 Easting: 1326014.92	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/4/2018	Drilling Method: DPT	Total Depth (ft): 2.7
Finish Date: 4/4/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	2.7	0.0	ASPHALT		0.6 Asphalt	0-1
		0.0	GW		1.1 Light gray GRAVEL (base course), small to large, angular, little sand, fine to coarse, dry	1-2
		0.0	GW		Brown GRAVEL, small to large, rounded, trace sand, fine to coarse, wet	2-3
		0.0			2.7	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447811.54 Easting: 1326028.86	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/14/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 3/14/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	0.0	ASPHALT		0.5 Asphalt	
			GW		1 Light gray GRAVEL (base course), small to large, angular, little fine to coarse sand, dry	0-1
2		1.6	ML		Dark brown SILT, little clay, trace fine to coarse sand, trace small angular gravel, moist	1-2
		0.0			3 Yellowish brown SILT, little fine sand, little small to large rounded gravel, moist	2-3
4		0.0	ML		4 Yellowish brown SILT, little fine sand, some small to large rounded gravel, little cobbles, moist	
		0.0	ML		5 Yellowish brown SILT, little fine sand, some small to large rounded gravel, little cobbles, moist	
6		0.0	SM		6 Brown silty SAND, fine, little small to large rounded gravel, moist to wet	

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



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447817.73 Easting: 1326022.60	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/14/2018	Drilling Method: DPT	Total Depth (ft): 3
Finish Date: 3/14/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	3.0	0.0	ASPHALT		Asphalt	0-1
		0.0	GW		Light gray angular GRAVEL, small to large, angular, little fine to coarse sand, dry	1-2
		0.0	GW		Brown GRAVEL, small to large, rounded, trace fine to coarse sand, moist, terminate boring due to caving gravel	1-2
		0.0				2-3

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447818.30 Easting: 1326035.24	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/20/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 2/20/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	PID Error	ASPHALT		0.5 Asphalt	
			GW		1 Gray GRAVEL (base course), small to large, angular, little fine to coarse sand, dry	0-1
2			SM		2.5 Dark brown silty SAND, fine, some small to large gravel, subrounded, little medium sand, moist	1-2
			ML		3 Strong brown SILT, moist	2-3
4			MLS		4 Strong brown sandy SILT, fine, trace small to large gravel, rounded, moist	3-4
			CL		5 Red and light gray mottled CLAY, moist	
6			SP		6 Brown SAND, very fine, wet	

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



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447824.49 Easting: 1326028.98	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/20/2018	Drilling Method: DPT	Total Depth (ft): 2.5
Finish Date: 2/20/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	2.5	PID Error	ASPHALT		0.6 Asphalt	30
			GW		1 Gray GRAVEL, small to large, angular, little fine to coarse sand, dry	0-1
			GP		2 Light brown GRAVEL, large, round, little fine to coarse sand, moist	1-2
			GP		2.5 Light brown GRAVEL, large, round, trace fine to coarse sand, moist End of boring at 2.5' due to caving gravel	2-3

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447825.02 Easting: 1326042.23	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/24/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 1/24/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.0	0.0	ASPHALT		0.5 Asphalt	0-1
			GWS		1 Light gray sandy GRAVEL (base course), small to large, dry	
		5.2	SM		2 Dark brown silty SAND, fine, little small to large gravel, angular, moist	1-2
		0.0	SP		3 Dark brown SAND, fine, some silt, little small to large gravel, angular, moist	2-3
		0.0	ASPHALT		3.6 Asphalt	3-4
		0.0	GW		4 Very dark gray GRAVEL, small to large, angular, some fine sand, trace silt, dry	
		0.0	ML		5 Strong brown SILT, little fine sand, trace clay, moist	4-5
		0.0	CL		6 Dark grayish brown CLAY, some silt, moist	5-6

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




Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447832.31 Easting: 1326035.68	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/24/2018	Drilling Method: DPT	Total Depth (ft): 3.5
Finish Date: 1/24/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	3.5	0.0	ASPHALT		0.6 Asphalt	0-1
			SW-GW		1 Light gray SAND and GRAVEL, fine to coarse, small to large, angular (base course), dry	
		0.0	GW		2 Brown GRAVEL, small to large, rounded, some fine sand, little silt, moist	1-2
		0.0	GW		Brown GRAVEL, small to large, rounded, trace fine sand, trace silt, moist	2-3
		0.0			3.5 Boring ended at 3.5' due caving gravel	3-4

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447832.31 Easting: 1326050.48	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/24/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 1/24/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	0.0	ASPHALT		0.5 Asphalt	
			GW		1 Light gray GRAVEL (base course), small to large, some fine to coarse sand, dry	0-1
2		38.8	SM		2 Dark brown silty SAND, fine, little gravel, small to large, rounded, moist, moderate odor	1-2
		0.0	SM		3 Brown silty SAND, fine, some small to large gravel, rounded, cobbles (construction debris, concrete boulder), moist	2-3
4		0.0	SM		4 Dark brown silty SAND, fine, little small to large gravel, angular, little cobbles	3-4
		0.0			5	4-5
6		0.0	ML		6 Strong brown SILT, little clay, trace large gravel, round, moist	5-6

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447837.41 Easting: 1326045.64	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/26/2018	Drilling Method: DPT	Total Depth (ft): 4.4
Finish Date: 1/26/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.4	0.0	ASPHALT		0.6 Asphalt	
			GW		1 Light gray GRAVEL (base course), small to large, angular, some fine to coarse sand, dry	0-1
		0.0	SM		1.8 Brown silty SAND, fine, some gravel, small to large, angular, trace fill (rubber, metal), moist	1-2
			FILL MATERIAL		2 Wood plank	
		0.0	SM		3 Brown silty SAND, fine, some small to large gravel, subangular, cobbles, moist	2-3
4		0.0	ML		Dark brown SILT, little fine sand, little fine gravel, angular, trace fill (brick), moist	3-4
		0.0			4.4	4-5

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447839.96 Easting: 1326043.08	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/24/2018	Drilling Method: DPT	Total Depth (ft): 2.5
Finish Date: 1/24/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	2.5	0.0	ASPHALT		0.6 Asphalt	
			GW		1 Light gray GRAVEL (base course), small to large, angular, some sand, fine to coarse, dry	0-1
		0.0	SM		Brown silty SAND, fine, some small to large gravel, angular, trace fill (plastic and rubber), moist	1-2
		0.0			2.5	2-3

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447839.94 Easting: 1326058.16	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/20/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 2/20/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	6.0	PID Error	ASPHALT		Asphalt	0-1	
			0.8				
			GW			Gray GRAVEL (base course), small to large, angular, moist	
2			SM		Dark brown silty SAND, fine, some gravel, small to large, angular, with cobbles, moist, faint odor	1-2	
			SM		Brown silty SAND, fine to medium, some gravel, small to large, angular, with cobbles and boulders (concrete), moist	2-3	
			FILL		FILL, concrete cobbles and boulders, little dark brown silty sand, fine, little gravel, small to large, angular moist	3-4	
4			GW		Very dark gray GRAVEL, small to large, angular, some sand, fine, little silt, with cobbles, dry	4-5	
	SP		Yellowish brown SAND, fine, little silt, wet				
6							

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447847.09 Easting: 1326050.39	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 2/20/2018	Drilling Method: DPT	Total Depth (ft): 5.5
Finish Date: 2/20/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.5	PID Error	ASPHALT		0.6 Asphalt	
			GW		1 Light gray GRAVEL, small to large, angular, some sand, fine to coarse, dry	0-1
			SM		2 Brown silty SAND, fine to coarse, little gravel, small, rounded, moist	1-2
			SM		3 Brown silty SAND, fine to coarse, little small gravel, rounded, with fill (trash, styrofoam), moist	2-3
			FILL		4 FILL, concrete blocks and fragments, cobbles and boulder-sized, little dark brown silty SAND, fine to coarse, moist	3-4
			GW		5 Very dark gray GRAVEL, fine to coarse, angular, little silty sand, fine, with cobbles (concrete), moist	4-5
			ML		5.5 Brown SILT, little sand, fine, wet	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447847.81 Easting: 1326065.26	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/14/2018	Drilling Method: DPT	Total Depth (ft): 6.5
Finish Date: 3/14/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	6.5	0.0	ASPHALT		0.6 Asphalt	0-1
			GW		1 Light gray GRAVEL (base course), small to large, angular, little fine to coarse sand, moist	
		CONCRETE		1.4 Concrete block	1-2	
0.0		SM		2 Brown silty SAND, fine, some small to large angular gravel, moist		
		SM		3 Brown silty SAND, fine to coarse, some small to large angular gravel, concrete cobbles, moist	2-3	
4		GW		4 Dark brown GRAVEL, small to large, angular, little fine to coarse sand, trace silt, with concrete cobbles, moist	3-4	
		GW		5 Very dark gray sandy GRAVEL, well graded, little silt, with cobbles, moist	4-5	
		SP		6 Yellowish brown SAND, fine, little silt, wet		
6	0.0	CL		6.5 Gray CLAY, low plasticity, moist		

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447854.61 Easting: 1326057.90	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 3/14/2018	Drilling Method: DPT	Total Depth (ft): 5.2
Finish Date: 3/14/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
	5.2	0.0	ASPHALT		Asphalt		
					0.7		
				GW SM		1 Light gray GRAVEL (base), small to large, angular, little fine to coarse sand, dry	0-1
2		0.4				2 Brown silty SAND, fine, some small to large subrounded gravel, trace fill (light blue form), moist	1-2
		0.1		SM		Dark brown silty SAND, fine, some small to large rounded gravel, with cobbles, moist	2-3
4		0.0				4 Dark brown silty SAND, fine, some small to large rounded gravel, with cobbles, moist	3-4
		0.0				5 Brown COBBLES, some large angular gravel, trace small angular gravel, trace fine to coarse sand, dry	4-5
	0.0		GW		5.2 Brown GRAVEL, small to large, angular, little fine to coarse sand, moist		

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447854.74 Easting: 1326071.99	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/4/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 4/4/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	6.0	0.0	ASPHALT		0.5 Asphalt	
			GW		1 Light gray GRAVEL, small to large, angular, little fine to coarse sand, dry	0-1
2		488.0	MLS		2 Dark grayish brown sandy SILT, fine, little gravel, small to large, angular, trace fill (brick), moist, strong odor	1-2
		0.0	ML		Yellowish brown SILT, little gravel, small to large, angular, trace fine to coarse sand, with cobbles, moist	2-3
4		0.0				3-4
		0.0				
		0.0	ML		5 Gray clayey SILT, low plasticity, moist to wet	
6		0.0			6	

Remarks:

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447861.53 Easting: 1326064.23	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 4/4/2018	Drilling Method: DPT	Total Depth (ft): 2.3
Finish Date: 4/4/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	2.3	0.0	ASPHALT		Asphalt	0-1
			GW		Light gray sandy GRAVEL (base course), well graded, dry	1-2
2		0.4	ML		Brown SILT, little gravel, small to large, subangular, little sand, fine, trace fill (metal wire, debris), moist, faint odor	2-3

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447871.29 Easting: 1326087.96	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 5/30/2018	Drilling Method: DPT	Total Depth (ft): 6
Finish Date: 5/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2 4 6	6.0	0.0	ASPHALT		0.4 Asphalt	
			GW		1 Gray GRAVEL, small to large, angular, little sand, fine to coarse, dry	0-1
		1124.0	SM		2 Brown silty SAND, fine, trace small to large angular gravel, trace slag, trace fill (glass, metal), strong odor, moist	1-2
		23.5	SW		3 Brown SAND, fine to coarse, little silt, little gravel, small to large, angular, faint odor, moist	2-3
		1.0	SP		4 Light brownish gray SAND, fine, little clay, trace silt, trace fill (slag), trace gravel, large, round, faint odor, moist	
		0.0	SM		5 Yellowish brown silty SAND, fine, trace gravel, small to large, rounded, moist	
		1.7	ML		6 Brown SILT, trace fine sand, trace gravel, small to large, angular, moist	

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447890.25 Easting: 1326106.28	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/23/2018	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 1/23/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	ASPHALT		0.5 Asphalt	
		0.0	SM		1 Brown silty SAND, fine, little small to large, gravel, angular, little blue stone (base course), moist	
		0.0	SM		2 Brown silty SAND, fine, trace debris (glass, slag), moist	
		0.0	SM		3 Brown silty SAND, fine, trace to little cobbles, concrete fragments, trace debris (glass, slag), concrete boulder at 2.5' to 3'; moist	
		0.0	ML		4 Brown SILT, little small to large gravel, rounded, moist	
4		0.0			5	3-4

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447896.43 Easting: 1326099.44	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/23/2018	Drilling Method: DPT	Total Depth (ft): 3.2
Finish Date: 1/23/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
		0.0	ASPHALT		0.5 Asphalt	
			SW		1 Gray SAND, fine to coarse, some small to large gravel, angular (base course), moist	0-1
2	3.2	0.0	SM		Brown silty SAND, fine, little small to large gravel, angular, trace fill (slag), moist Refusal at 3.2; irregular concrete boulder encountered	1-2
		0.0				2-3
						3-4

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


Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447896.81 Easting: 1326112.54	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/23/2018	Drilling Method: DPT	Total Depth (ft): 4.5
Finish Date: 1/23/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	4.5	0.0	ASPHALT		0.5 Asphalt	0-1
			SM		1 Grayish brown silty SAND, fine, some small to large gravel, angular (base course blue stone), moist	
		0.0	SM		2 Brown silty SAND, fine, little small to large gravel, rounded, moist	1-2
			SM		2.3 Brown silty SAND, fine, some clay, little gravel, small, angular, little fill (wire, slag, metal), moist	2-3
		0.0	CONCRETE		3 Concrete boulder	
			ML		4 Brown SILT, little small to large gravel, rounded, moist	
4		0.0	SW		4.5 Strong brown SAND, fine to coarse, little silt, little small to large gravel, rounded, moist Refusal on cobble at 4.5'	

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
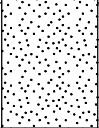
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 447903.36 Easting: 1326106.56	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/24/2018	Drilling Method: DPT	Total Depth (ft): 2.8
Finish Date: 1/24/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	2.8	0.0	ASPHALT		0.5 Asphalt	
		0.0	SM		1 Brown silty SAND, fine, little small to large gravel, angular, moist	0-1
		0.0	SM		2 Brown silty SAND, fine, some small to large gravel, angular to rounded, moist	1-2
		0.0	SM		2.8 Brown silty SAND, fine, some small to large gravel, rounded, moist to wet Refusal at 2.8' on irregular concrete	

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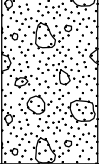
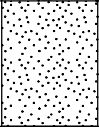
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448960.18 Easting: 1324064.34	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/1/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/1/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)	
0							
2	5.0	0.0	FILL		Large STONE and GRAVEL		
			1	ASPHALT		Asphalt	
1.5			SP		Brown SAND, fine to medium, trace silt, soft, loose, moist	1-2	
3							2-3
3			SP		Brown SAND, fine to medium, soft, loose, moist	3-4	
4		0.0					
		0.0					

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448961.30 Easting: 1324111.62	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 7/31/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 7/31/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	FILL SPG		0.2 Loose stones and grass/weeds	0-1
2					Dark brown/black SAND and GRAVEL, medium to coarse, medium to large, some rocks and stones (1/2" - 1"), brick fragments, loose, dry	1-2
4				SP		3 Orange brown SAND, fine to medium, trace gravel, loose, slightly moist
		0.0			5	

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448955.80 Easting: 1324577.18	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/8/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/8/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	FILL SM	XXXXXX	0.2 Stone cover	
					1 Brown silty SAND, fine, some small to large angular gravel, moist	0-1
2		0.0	SM		2 Strong brown silty SAND, fine, trace coal fragments, moist	1-2
		0.0	SM		3 Strong brown silty SAND, fine, little small to large rounded gravel, trace debris (coal, brick fragments), moist	
		0.0	SM		4 Grayish brown silty SAND, fine, little small to large subrounded gravel, moist to wet	
4		0.0	SM		5 Grayish brown silty SAND, fine, little small to large subrounded gravel, trace coal, moist to wet	

Remarks:

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





Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Ben Daniels
Project: Benning Road Facility	Northing: 448950.77 Easting: 1324616.15	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 1/30/2018	Drilling Method: DPT	Total Depth (ft): 4
Finish Date: 1/30/2018		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	4.0	0.0	FILL SM		0.1 Stone surface cover 1 Very dark brownish gray silty SAND, fine, small to large angular gravel, trace organics	0-1
2		0.0	GW-SP		2 Brown SAND graded to dark gray GRAVEL, fine, small to large, angular, moist	
		0.0	SM		3 Brown silty SAND, fine, little small to large gravel, subangular, trace fill (coal), moist	
4		0.0	MLS		4 Mixed brown and black sandy SILT, fine, little clay, little fill (coal), moist Refusal at 4.0' (boulder encountered)	

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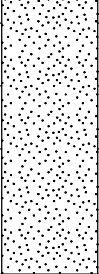
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448947.70 Easting: 1324514.82	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/3/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/3/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	FILL SW		0.1 Stone cover	0-1
		0.0	GP		1.2 Brown SAND, fine to coarse, angular GRAVEL, small to large, dry, compact	1-2
0.0		GP		2 Dark gray GRAVEL and WOOD, large angular, little silt, moist		
4		0.0	SP		3 Brown to black SAND, fine, little medium to coarse sand, little subangular gravel, little debris (coal fragments, grain size of fine sand to small angular gravel), silt, moist	
		0.2	SP		4 Tan to dark brown SAND, fine, little silt, trace medium to coarse sand, trace debris (brick, coal fragments), trace fine angular gravel, dry	
	0.0	SM		5 Tan to dark brown silty SAND, fine, little fine to coarse sand, trace small to large angular gravel, trace debris (brick, coal fragments), moist		

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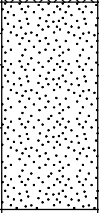

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449062.09 Easting: 1324566.88	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/4/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
2	5.0	0.0	FILL		0-2" large stone cover; 2-8" crushed rock and stone	0-1
			SP		1 Brown SAND, medium to coarse, dry, compact, trace small gravel	
		SP	2 Brown SAND, medium to coarse, dry, compact, trace small gravel, trace coal slag fragments		1-2	
		SP	3 Brown SAND, medium, some sandy silt, dry, compact			
		SP	4 Dark brown SAND, medium, some sandy silt, dry, compact			
4		0.0		5		

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



Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449067.33 Easting: 1324522.94	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/4/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	FILL		0-0.2' loose stone and gravel, weeds; 0.2-1' crushed rock and stone	0-1
2		0.0	SP		1.5 Black SAND, medium to coarse, crushed coal, dry	1-2
		0.0	SP		2 Brown SAND, medium, trace small gravel, dry	
		0.0	SP		3 Brown SAND, medium, trace small gravel, trace small stone, dry	2-3
4		0.0	SP		4.3 Brown SAND, medium, some stones (1/2 - 1"), some silty clay	
		0.0	OL		5 Light brown/tan SILT, tight, high plasticity	

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449094.64 Easting: 1324523.72	Drilling Company: E2CR
Project #: 60340344	Surface Elevation (msl): NA	Groundwater Encountered (ft bgs): NA
Start Date: 8/4/2017	Drilling Method: DPT	Total Depth (ft): 5
Finish Date: 8/4/2017		

Depth (ft bgs)	Recovery Length (feet)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Interval (feet)
0						
	5.0	0.0	FILL SPG		0.2 Large stone cover	
		0.0	SP		1 Dark gray SAND and GRAVEL, coarse, large, some stones (1/4 - 1/2") dry, compact, some concrete debris	0-1
2		0.0	SP		2 Dark gray/brown SAND, coarse, some silt, trace stones, moist, some concrete debris	1-2
		0.0	MLS		3 Dark gray/brown sandy SILT, trace small gravel, moist, medium plasticity	
4		0.0	MLS		4 Dark gray/brown sandy SILT, trace small gravel, moist, medium plasticity, moist	
		0.0			5	

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Phase II Sediment Boring Logs

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447688.20 Easting: 1323208.90	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -3.136425339	Drilling Method: Vibracore
Start Date: 6/15/2017	Depth of Coring (fbm): 8	Recovery (ft): 7.6
Finish Date: 6/15/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0	0	ML		Dark gray SILT, saturated, some sand, fine to medium, trace organics (leaves)	0-1
	0				
	0				
2	0	SP		Dark gray SAND, fine to medium, mica fragments, moist, trace silt	2-3
	0.5				
4	0.5	MLS		Dark gray sandy SILT, fine to medium, moist, some leaves, organic lens (leaves and twigs) from 3 to 3.1 ft. and 3.4 to 3.5 ft., trash (plastic) at 5.4 ft.	4-5
	0.6				
	0.5				
	0.6				
6	1.1				6-7
	0.5				
	1.3				
8	2				

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447788.50 Easting: 1323332.00	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/21/2017	Depth of Coring (fbm): 10	Recovery (ft): 8
Finish Date: 6/21/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0	ML		Dark gray SILT, some sand, fine to medium, some organics (leaves and twigs), moist, plastic trash (plastic) at 3.9 ft.	0-0.33
					0.33-0.67
	0				0.67-1
	0.1				1-1.33
					1.33-1.67
	0.1				1.67-2
					2-2.33
	0.1				2.33-2.67
					2.67-3
	0.3				3-3.33
4	1.9				3.33-3.67
					3.67-4
	1.9				4-4.33
					4.33-4.67
6	1.4	GW		Dark gray/black GRAVEL, well-graded, moist, some organics (twigs), trash (plastic) at 5.25 ft.	4.33-4.67
					4.67-5
	3.3				5-5.33
					5.33-5.67
8	2.8				5.67-6
					6-6.33
	3.6	ML		Dark gray SILT, some sand, fine to medium, some organics (leaves and twigs), moist, sand lens at 6.46 to 6.5 ft., fine to medium	6.33-6.67
					6.67-7
1.3	7-7.33				
	0.9				
10					

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448900.30 Easting: 1323088.70	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -5.7875	Drilling Method: Vibracore
Start Date: 6/14/2017	Depth of Coring (fbm): 8.1	Recovery (ft): 8
Finish Date: 6/15/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0	SP		Dark gray SAND, fine to medium, some silt, some organics (leaf material), trace clam shell, organic odor, trace mica fragments, saturated, compact	0-1
	0				
	0	MLS		Dark gray sandy SILT, trace sand, fine to medium, organic odor, trace organics (leaf material), saturated, soft	
2	0.3				
	2.8	SP		Dark gray SAND, fine to medium, some silt, some organics (leaf material), trace clam shell, organic odor, trace mica fragments, saturated, compact	2-3
	1.2				
	3.3				
4	4.8	PT ML		3.75 3.9 Organic lens of leaves and sticks	
	2.4			Dark gray SILT with trace sand, organic lens (leaves and sticks) from 5.46 to 5.5 ft.	4-5
	2.1				
6	1.7				
	3			Dark gray SANDY SILT, trace sand, fine to medium, mica fragments, organic odor, trace organics/leaf material, saturated, soft	6-7
	3.7	MLS			
	7.7	SP			
	4.1			SAND, fine to medium, trace silt, mica fragments, saturated, compact	7-8
8	2.6				
				8.1	

Remarks:

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

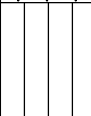
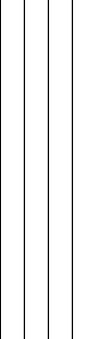
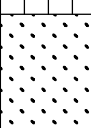
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 448888.10 Easting: 1323146.10	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -3.655555556	Drilling Method: Vibracore
Start Date: 6/14/2017	Depth of Coring (fbm): 10	Recovery (ft): 9.8
Finish Date: 6/14/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification		
0							
2	1.2	ML		Dark gray SILT with fine sand, some leaves, shells, twigs, medium plasticity, sand lens from 26 to 27 and 45 to 48 in., organic lens from 50 to 52, 56 to 58, 64 to 66, 73 to 75, and 84 to 85 in., organic odor from 45 to 48 in.	0-1		
	1.1						
	1.6						
	2.1						
4	3.1						2-3
	9.7						
	17.8						
	10.2						
6	6.5						4-5
	5.7						
	9.1						
	6.9						
8	14.2			6-7			
	7.5						
	10.4						
	5.9						
10	8.2	ML		8.1 Dark gray SILT with fine sand, some leaves, shells, twigs, medium plasticity, gradual increase in stiffness to medium stiffness	8-9		
	5.8						
	7.5						

Remarks:

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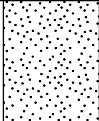
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449349.10 Easting: 1323266.70	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -8.513265306	Drilling Method: Vibracore
Start Date: 6/19/2017	Depth of Coring (fbm): 6.7	Recovery (ft): 6.7
Finish Date: 6/19/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0	ML		Dark gray, SILT, some fine sands, trace organics (twigs), saturated	0-0.33
				0.75	0.33-0.67
	0	SP		SAND, fine to medium, trace organics	0-1
				1.1	0.67-1
	3.8	ML		Dark gray SILT, some fine sand, moist, petroleum like odor, sand lens from 22.5 to 30 ft., fine to medium	1-1.33
2	5.7				1.33-1.67
	6.1				1.67-2
	3.6				2-2.33
	6.4				2.33-2.67
	5.4				2-3
4	4.4				2.67-3
	5.9				3-3.33
	2.5	SM		Dark gray silty SAND, fine to medium, some organics (leave and twigs)	3.33-3.67
	1.9				3.67-4
	1.5				4-4.33
	1.9	SW		Dark gray SAND, fine to coarse, tight, moist	4.33-4.67
6					4-5
					4.67-5
					5-5.33
					5.33-5.67
					5.67-6
					6-6.33
					6-7
					6.7

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449338.10 Easting: 1323337.10	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -1.867763158	Drilling Method: Vibracore
Start Date: 6/14/2017	Depth of Coring (fbm): 10	Recovery (ft): 9.8
Finish Date: 6/14/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
0.3	0.3	ML		Dark gray SILT, trace sand, fine, trace organic material (roots, leaves), fine sand lens from 18-19 in., moist	0-1
	1.2				
	1.2				
2	1.5	ML		1.5 Dark gray SILT, trace mica, organic odor, trace fine sand, moist	2-3
	1.8				
	2.2				
4	1.1				
	1				
	1.2				
6	1.7				4-5
	1.8				
	1.5				
8	1.7				6-7
	2.2				
	1.2				
10	1.7				8-9
	1.3				
	1.1				
10	0.7	SP		9 Dark gray SAND with silt, fine, trace mica, moist	

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449651.80 Easting: 1323798.20	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): 2.64	Drilling Method: Vibracore
Start Date: 6/22/2017	Depth of Coring (fbm): 9.5	Recovery (ft): 9.2
Finish Date: 6/27/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0	ML		0.25 Dark gray SILT, saturated, trace organics, twigs, leaves, soft	0-0.33
	0.7	ML		Dark gray SILT, some sand, fine to medium, some organics (roots and leaves), soft, moist	0-1
	0.4				
	3.1				
4	1.9	ML		2 Dark gray SILT, trace sand, fine to medium, soft to medium stiff, some organics (roots and leaves)	2-3
	1.7				
	1.4				
	1.6				
6	1				4-5
	1.1				
	2				
	1.1				
8	0.7				6-7
	0.9				
	0.7				
	0.5				
	0.6				8-9
				9.5	

Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449649.40 Easting: 1323969.80	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): 1.69	Drilling Method: NA
Start Date: 6/8/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/8/2017	Surface Sample Method: Petite Ponar	


Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0		MLS		0.3 Dark gray SILT and SAND, fine, loose, large stones (0.5-1 in.), sticks, trash	0-0.33

Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449707.20 Easting: 1323401.30	Drilling Company: Normandean Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -6.122222222	Drilling Method: NA
Start Date: 6/8/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/8/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	NA	SM		0.3 Dark gray silty SAND, loose, leaves, some sticks and shells	0-0.33
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Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449687.40 Easting: 1323424.80	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -7.644444444	Drilling Method: NA
Start Date: 6/8/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/8/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	NA	SM		0.3 Dark gray silty SAND, loose, leaves, some sticks, shells	0-0.33
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Remarks: Porewater Sample Collected

AECOM
8000 Virginia Manor Road
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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449590.20 Easting: 1323525.10	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: NA
Start Date: 6/7/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/7/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	0	ML		0.3 Dark gray SILT, loose, saturated, some shells, twigs, trace trash	0-0.33
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Remarks: Porewater Sample Collected

AECOM
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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449865.90 Easting: 1323906.90	Drilling Company: Normandeu Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): 2.55	Drilling Method: NA
Start Date: 6/9/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/9/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	0	ML		0.3 Dark gray clayey SILT, saturated, high plasticity, some trash, trace twigs and leaves	0-0.33
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Remarks: Porewater Sample Collected

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Boring Log

BORING #: SED7.5E

Sheet 1 of 1

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449782.70 Easting: 1324043.60	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): 1.6	Drilling Method: NA
Start Date: 6/8/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/8/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	NA	ML		0.3 Dark gray SILT, loose, saturated, some sticks/twigs and leaves, organic sheen	0-0.33
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Remarks: Porewater Sample Collected

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Boring Log

BORING #: SED7A

Sheet 1 of 1

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449966.00 Easting: 1323526.80	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -3.937931035	Drilling Method: NA
Start Date: 6/9/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/9/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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
0	0	ML		0.3 Dark gray SILT, loose, soft	0-0.33
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Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449847.40 Easting: 1323647.80	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -2.305102041	Drilling Method: NA
Start Date: 6/7/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/7/2017	Surface Sample Method: Petite Ponar	


Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	0	CL-ML		0.3 Dark gray SILT and CLAY, loose, high plasticity, trace sand, saturated, shells, snails, twigs, sheen, petroleum-like odor	0-0.33
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Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449789.60 Easting: 1323814.30	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): 2.26	Drilling Method: Vibracore
Start Date: 6/27/2017	Depth of Coring (fbm): 10	Recovery (ft): 9.7
Finish Date: 6/27/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0	ML		Dark gray SILT, trace sand, fine to medium, moist, soft	0-0.33
	0.7				0-1
	0.9				
	0.8				
4	1	ML		Dark gray SILT, trace sand (fine to medium), moist, soft, black staining, petroleum odor	2-3
	0.8				
	1.5				
6	1.8	SP		Dark gray SAND, fine to medium, some silt, moist, soft	3.75
	5.4				4-5
	4.6				
	8.6				
8	4.4	ML		Dark gray SILT, trace sand, fine to medium, moist, soft	5.8
	4.1				6-7
	2.6				
	4.4				
10	4.4				6.25
	4				8-9
	2				
	2				
10					

Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 449660.60 Easting: 1324119.90	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): 2.11	Drilling Method: NA
Start Date: 6/8/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/8/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	NA	ML		0.3 Dark gray SILT, loose, some sand, coarse, saturated, some sticks/twigs and leaves	0-0.33
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Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 450167.50 Easting: 1323627.00	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -1.817602041	Drilling Method: NA
Start Date: 6/9/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/9/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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0	0	ML		0.3 Dark gray SILT, loose, soft	0-0.33
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Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 450124.40 Easting: 1323699.80	Drilling Company: Normandean Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -6.6375	Drilling Method: NA
Start Date: 6/9/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/9/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0	0	SM		0.3 Dark gray silty SAND, loose, saturated, some corbicula (clams)	0-0.33

Remarks: Porewater Sample Collected

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 450062.60 Easting: 1323810.50	Drilling Company: Normandean Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): -1.56	Drilling Method: NA
Start Date: 6/7/2017	Depth of Coring (fbm): 0.33	Recovery (ft): 0.33
Finish Date: 6/7/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
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

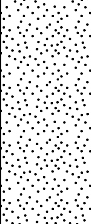
0	0	ML		0.3 Dark gray SILT, loose, some sand, fine, saturated, some shells, twigs	0-0.33
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Remarks: Porewater Sample Collected

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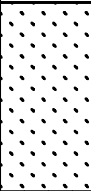
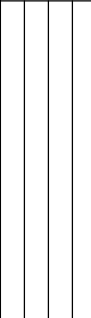
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 461605.40 Easting: 1329539.60	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/22/2017	Depth of Coring (fbm): 3	Recovery (ft): 3.9
Finish Date: 6/22/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.4	ORGANICS		Dark gray organics (leaves, twigs, wood), trace silt, trace sand, fine to medium, saturated, slight sewage like odor	0-0.33
	5	SP		0.9 Dark gray SAND, fine to medium, some silt, moist, some organics (leaves, twigs, wood)	1-3
	7.5				
2	0.8				
	0.8				
				3	

Remarks: Porewater Sample Collected

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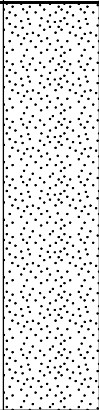
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 459358.20 Easting: 1329694.40	Drilling Company: Normandean Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/21/2017	Depth of Coring (fbm): 4.1	Recovery (ft): 3.3
Finish Date: 6/21/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0	SM		Dark gray sandy SILT, fine to medium sand, saturated, 4 to 4.5 in. and 9.5 to 10 in. organic lens (leaves and twigs)	0-0.33
	0.4				
	0.2				
2	0.2	ML		Dark gray SILT, moist, some sand, fine to medium, trace mica, moist, soft, 23.5 to 24 in. organic lens (leaves and twigs)	1-3
	1.4				
	0.3				
	1				
4					

Remarks: Porewater Sample Collected

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

Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 456839.30 Easting: 1329623.30	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/21/2017	Depth of Coring (fbm): 3.25	Recovery (ft): 1.5
Finish Date: 6/21/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.3	SP		Dark gray SAND, fine to medium, trace silt, tight, some organics (twigs and leaves), clam shells, some gravel and stones, moist to saturated, no odor	0-0.33
	0.9				
	0.3				1-3
2					
					3.25

Remarks: Porewater Sample Collected

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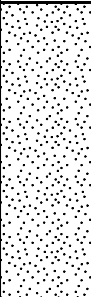
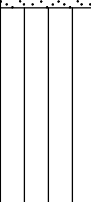
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 455288.90 Easting: 1328365.20	Drilling Company: Normandean Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/20/2017	Depth of Coring (fbm): 2.25	Recovery (ft): 1.75
Finish Date: 6/20/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.52	SW		Dark gray SAND, well graded, saturated to moist, large stones (1-1.5), organic odor	0-0.33
	0.1				
	0.1				1-3
2					
				2.25	

Remarks: Porewater Sample Collected

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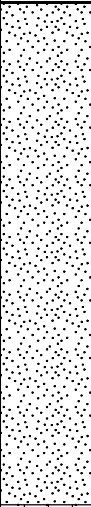
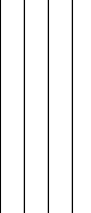
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 452024.50 Easting: 1324615.00	Drilling Company: Normandeu Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/14/2017	Depth of Coring (fbm): 4	Recovery (ft): 4
Finish Date: 6/14/2017	Surface Sample Method: Petite Ponar	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification	
0						
	2	SP		Dark gray SAND, fine to medium, mica fragments (7-16 in.), moist, compact, little trash, little leaf materials	0-0.33	
	10.3					
	3.5	SP		1.3	Black coal and SAND, medium to coarse, well graded gravel and stone as big as 2 in., moderate petro related odor	1-3
2	36.2					
	10.5			2.4	Dark gray SILT, soft, moist to saturated	
	10.2	ML				
	8.5					
4	12.6					3-5

Remarks:

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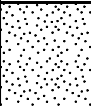
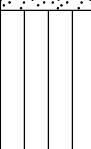
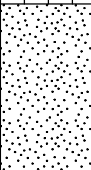
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447475.10 Easting: 1323134.10	Drilling Company: Normandean Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/16/2017	Depth of Coring (fbm): 5.8	Recovery (ft): 5.8
Finish Date: 6/19/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0	SP		Dark gray SAND, fine to medium, saturated, some silt, clam shells, trace organics (leaves and twigs)	0-1
	0.1	SP		Dark gray SAND, fine to medium, moist, some silt, clam shells, trace organics (leaves and twigs), organic lens (leaves and twigs) from 12 to 16 in. and 46 to 48 in., trash debris and 48 in.	
	0				
2	1.9				
	2.6				2-3
	1.8				
	2.7				
4	3.5				
	11.5	ML		Dark gray SILT, some sand, fine to medium, soft, organic odor, trash debris at 50 in.	4-5
	4.7				
	1.7				
	1.4				
				5.8	

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 447498.70 Easting: 1323199.70	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/15/2017	Depth of Coring (fbm): 10	Recovery (ft): 9.2
Finish Date: 6/15/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0	SP		Dark gray SAND, fine to medium, some silt, saturated, trace organics (leaves), shells, mica fragments, soft	0-1
	0.7				
	0	ML		Dark gray SILT, trace sand, fine, trace mica fragments, trace organics (leaves), moist, soft, sand lens from 20 to 21 ft., fine to medium	
2	0.4				
	0.6				2-3
	2.1				
	1.1				
4	2.6				
	2.6				4-5
	2.8				
	1.5				
6	3.5				
	3.2				6-7
	4.3				
	2.8	SP		Dark gray SAND, fine to medium, compact, trace mica fragments, trace silt, moist, decomposed pieces of wood	
8	3.5				
	4				
10					

Remarks:

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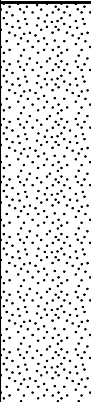
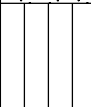
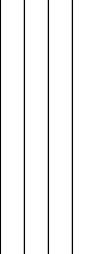
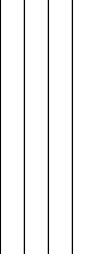
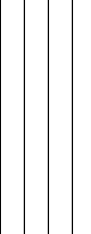
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445798.70 Easting: 1322638.70	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/15/2017	Depth of Coring (fbm): 10	Recovery (ft): 9
Finish Date: 6/15/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0	SP		Dark gray SAND, fine to medium, some silt, moist, trace trash, trace mica fragments, trace shells	0-1
	0.5				
	0.3				
2	1.2	SM		Dark gray sandy SILT, fine to medium, organic odor, trace mica fragments, soft, moist to saturated, sand lens from 45 to 47 in., fine to medium	2-3
	1.6				
	0.7				
	0.8				
4	1.3	ML		Dark gray SILT, trace sand, fine, moist, stiffens as it gets deeper	4-5
	1				
	0.7				
6	0.4	ML		Dark gray SILT, trace sand, fine, moist, stiffens as it gets deeper	6-7
	0.6				
	0.5	ML		Very dark gray SILT, trace sand, fine, moist, stiffens as it gets deeper	8-9
	0.2				
	0.1				
8	0				
	0				
10					

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445793.70 Easting: 1322717.00	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/16/2017	Depth of Coring (fbm): 10	Recovery (ft): 8.6
Finish Date: 6/16/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.1	SP		Dark gray SAND, fine to medium, some silt, moist, slight indistinguishable odor, trace organics, shells, leaves, trace mica, organic lens (leaves and twigs) from 27 to 27.5 in.	0-1
	2				
	2.7				
	1.3				
4	1.6	ML		Dark gray SILT, some sand, fine to medium, moist, soft, trash (plastic debris) at 48 in.	2-3
	1				
	1.1				
6	2.8	ML		Dark gray SILT, some fine to medium sands, moist, soft, black staining, petroleum like odor	4
	3.2				
	3.1				
	4.3				
	4				
8	2.5				6-7
	2.3				
	3.1				
	3.6				
10	2.7				8-9

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 445796.30 Easting: 1322846.30	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/16/2017	Depth of Coring (fbm): 10	Recovery (ft): 9.8
Finish Date: 6/16/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.1	SP		Dark gray SAND, fine to medium, some silt, some organics (leave and sticks), moist	
				0.5	
	0.1	ML		Dark gray SILT with trace sand, fine, black intermittent staining, petroleum like odor, moist, sand lens from 18 to 19 in., fine to medium	0-1
	3				
2	2.9				
	2.4				
	2.1	ML		2.7	2-3
	2.1			Dark gray SILT with trace sand, fine, sand lens from 51 to 52 in. and at 63 in., fine to medium	
4	2.2				
	3.3				
	4.1				4-5
	2.7				
6	1.9				
	1.8				
	1.9	ML		6.7	6-7
	0.8			Dark gray SILT with trace fine sands, organics, leaves, intermixed throughout	
8	1.1				
	0.8				
	0.9				8-9
10					

Remarks:

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 444613.50 Easting: 1322461.10	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/16/2017	Depth of Coring (fbm): 10	Recovery (ft): 10
Finish Date: 6/16/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
2	0.2	ML		Dark gray SILT with some sand, fine to medium, black intermittent staining, staining fades towards bottom of core, petroleum-like odor, oraganic lens with sand from 38 to 39 in., 45 to 45.5 in., and 56 to 56.5 in., fine to medium	0-1
	1.1				
	2				
4	2.2				
	4.5				
	8.5				
	7.8				
6	6				
	5.3				
	5.2				
	4.2				
8	4.7				
	5.9				
	5.4				
	8.7				
10	8.4				
	5.4				
	5.5				
	7.7				
	12.3				
10					

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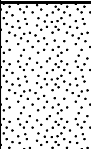
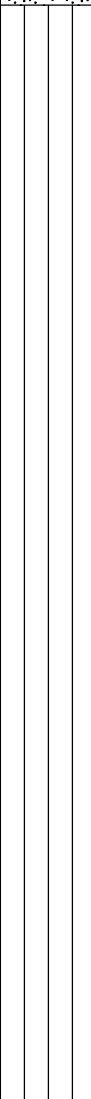
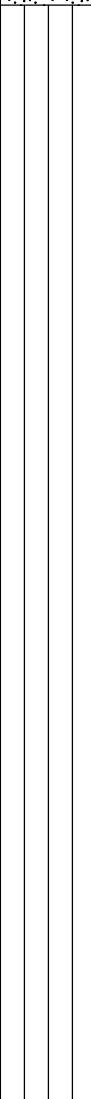
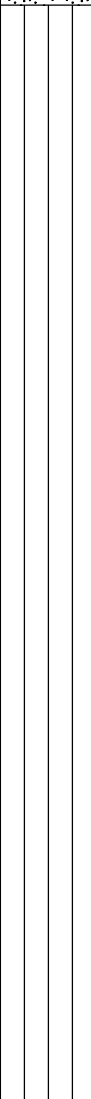
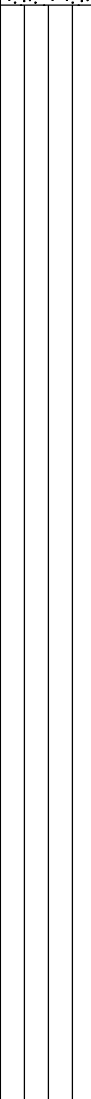
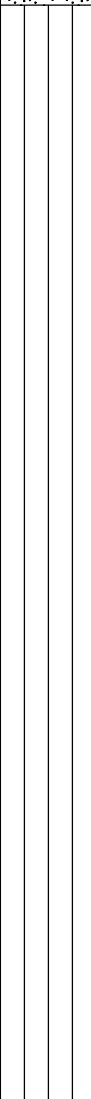
Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 444275.60 Easting: 1322239.60	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/16/2017	Depth of Coring (fbm): 10	Recovery (ft): 10
Finish Date: 6/16/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0	SP		Dark gray SAND, fine to medium, saturated, with organic material (leaves and twigs)	
	0.4	SP		Dark gray SAND, fine to medium, trace silt, mica fragments, trace organic matter (leave and twigs), organic odor	0-1
	1.3	ML			Dark gray SILT, some sand, fine to medium, moist to saturated, fine to medium sand lens from 29 to 30 in. and at 55 in., moist to saturated, organic lens (leaves and twigs from 42 to 43 in., 49 to 50 in., trash debris (plastic) at 59 in.
2	0.8				
	1.4				
	0.9				
	0.9				
4	0.8				
	0.9				
	1.1				4-5
	1.2	SP		Dark gray SAND, fine to medium, with some silt, satruated	
6	1.3				
	2.1	SP			Dark gray SAND, fine to medium, with some silt, satruated, intermittent black staining and slight petroleum like odor
	3.3				
	4.8				
8	3.4				
	5.6				
	5.2				8-9
	4.7				
10	3.5				

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Client: Pepco	Location: 3400 Benning Road, Washington, DC	Logged By: Dan Hulbert
Project: Benning Road Facility	Northing: 444295.40 Easting: 1322362.10	Drilling Company: Normandeau Env.
Project #: 60340344	Top of Sediment Elevation (ft MLLW): NA	Drilling Method: Vibracore
Start Date: 6/16/2017	Depth of Coring (fbm): 10	Recovery (ft): 9.7
Finish Date: 6/19/2017	Surface Sample Method: Vibracore	

Depth (ft bgs)	PID (ppm)	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Soil Sample Identification
0					
	0.5	SP		Dark gray SAND, fine to medium, strong human waste odor, trace silt, plastic debris, clam shells, moist, medium soft	0-1
	2.1				
	2.5	ML		Dark gray SILT, trace fine to medium sand, black staining, petroleum like odor, moist, medium soft, sand lens from 48 to 60 in. and 60.75 to 61 in., fine to medium, strong petroleum-like odor from 48 to 60 in.	1.2
2	1.9				
	4.7				
	5.5				
	4.3				
4	7.4				2-3
	3.4				
	6.7				
	3.8				
6	4.2				4-5
	3.5				
	8.1				
8	9.3				6-7
	10.4				
	8.6				
	10.8				
10	6.6				8-9
	8.6				

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