








EC13-112

 MWH MWH Americas, Inc. 335 Phoenixville Pike Malvern, Pennsylvania 19355	Boring ID: POT-SC2 Page 1 of 4	
	Project Name: 2009 Dissolved Phase Plume Continued Delineation Location: Delaware City, DE Project Number: 1006209 Date Started: Unknown Date Finished: Unknown Drilling Method: Roto-Sonic Sampling Method: State Permit Number: NA	Boring Location: Near Eastern Boundary Drilling Company: Bowser Morner (J. Akers) Ground Elevation (ft/msl): Total Depth (ft): 118.0' Boring Diameter (in): 8/6" Water Level During Drilling (ft/bgs): Weather Conditions: Logged By: Joseph Remenicky

Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
0						ML		0' - 3.45' Brownish yellow (10YR 6/6) SILT; little clay; trace fine-grained sand; dry; medium plasticity. 1.35' Color grades to yellowish brown (10YR 5/6).	
5		8				ML SW		3.45' - 3.65' Yellowish brown (10YR 5/6), light brownish gray (10YR 6/2) mottled SILT; little fine-grained sand; dry; medium plasticity. 3.65' - 5' Yellowish brown (10YR 5/6) medium- to fine-grained SAND; trace silt. 4.6' Trace coarse- to fine-grained rounded gravel.	
10		5				ML SW SW		5' - 8' Yellowish brown (10YR 5/6) fine-grained SAND; little medium-grained sand; trace coarse-grained sand, silt. 5.2' - 6.2' Color grades to pale olive (5Y 5/3); glauconitic zone. 6.2' Color grades to yellowish brown (10YR 5/6). 6.55' - 6.7' Subrounded coarse-gravel-sized quartzite grain.	
15						SW SW ML		8' - 9.6' Yellowish brown (10YR 5/4) SILT; little fine-grained sand; medium plasticity. 9' Color grades to yellowish brown (10YR 5/6). 9.6' - 10.7' Light yellowish brown (2.5Y 6/3) fine-grained SAND, trace coarse-grained sand, silt.	
20		9.5				ML		10.7' - 12.4' Olive yellow (2.5Y 6/6) fine-grained SAND; trace silt. 11.5' Grading to little medium-grained sand, trace coarse-grained sand, silt. 12.4' - 14.6' Light brownish gray (2.5Y 6/2) medium-grained SAND; some fine-grained sand; little coarse-grained sand; trace fine-grained rounded gravel, silt.	
25						CL SM ML SM		14.6' - 24' Olive gray (5Y 4/2) SILT; little fine-grained sand; mica. 15.6' Color grades to olive (5Y 4/4). 15.9' Color grades to dark olive gray (5Y 3/2). 18' Color grades to dark olive gray (2.5Y 3/3). 18.8' - 18.9' Coarse-grained gravel-sized shell fragment. 21.3' Color grades to very dark gray (2.5Y 3/1); coarse-grained gravel-sized shell fragment.	
30								24' - 24.5' Very dark gray (2.5Y 3/1) CLAY; medium plasticity. 24.5' - 24.8' Very dark gray (2.5Y 3/1) SILTY fine-grained SAND. 24.8' - 25.1' Very dark gray (2.5Y 3/1) CLAY; medium plasticity. 25.1' - 25.3' Light olive brown (2.5Y 5/3) SILT; coarse-grained subrounded gravel grain; micaceous.	
35		9						25.3' - 38' Very dark gray (2.5Y 3/1) fine-grained SAND; little silt; micaceous.	



Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
35									
40		11				ML		38' - 40' Very dark gray (2.5Y 3/1) fine-grained SANDY SILT.	
45						ML		40' - 108' Very dark gray (2.5Y 3/1) SILT; trace fine-grained sand.	
50		9.3							
55									
60		10.25							
65									
70		11.7							
75									



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Page 3 of 4

Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
80									
85		12							
90									
95		13.6							
100									
105		11.6							
110						SP		108' - 120' Gray (10YR 6/1) fine-grained SAND; trace silt.	
115		11		Grab groundwater sample 113-114' bgs.		SP		112' Color grades to light gray (10YR 7/1).	



Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
120						CL		120' - 120.25' Light brownish gray (10YR 6/2) CLAY; high plasticity.	
		9.6				SP		120.25' - 123.35' Light gray (10YR 7/1) fine-grained SAND; trace silt.	
				Grab groundwater sample 124-125' bgs.		SP		120.5' Color grades to light olive brown (2.5Y 5/4).	
125						SP		120.9' Color grades to light olive brown (2.5Y 5/6).	
						SP		121.8' Color grades to strong brown (7.5Y 5/8).	
						SP		122.35' Color grades to olive brown (2.5Y 4/4).	
						CL		122.8' Color grades to yellow (2.5Y 7/6).	
						CL		123.2' Color grades to light gray (10YR 7/1).	
						CL		123.2' Color grades to yellow (2.5Y 7/6).	
						CL		123.3' Color grades to light gray (10YR 7/1).	
						SP		123.35' - 123.55' Reddish yellow (7.5YR 6/8) fine-grained SAND; some clay.	
130						CL		123.55' - 123.7' Light gray (10YR 7/1) fine-grained SAND; trace silt.	
						CL		123.7' - 123.9' Reddish yellow (7.5YR 6/8) fine-grained SAND; some clay.	
		11.2				SP		123.9' - 127' Light gray (10YR 7/1) fine-grained SAND; trace silt.	
						CL		125.4' - 125.6' Color grades to yellow (2.5Y 7/6).	
135						CL		126' - 126.1' Some clay.	
						CL		126.6' - 126.75' Some clay.	
						CL		127' - 128.4' Light gray (10YR 7/1) CLAY; some fine-grained sand.	
								128' Color mottles gray (10YR 6/1) and light reddish brown (5YR 6/4).	
								128.4' - 129.2' Light gray (10YR 7/2) fine-grained SAND; trace silt.	
140								129.2' - 131.7' Dark red (2.5YR 3/6) CLAY; hard; highly plastic.	
								129.4' Color grades to gray (10YR 6/2).	
								129.85' Color grades to reddish brown (2.5YR 5/3).	
								131.5' Color grades to gray (10YR 6/2).	
								131.7' - 133.45' Very pale brown (10YR 7/4) to light yellowish brown (10YR 6/4) fine-grained SAND; little coarse-grained angular gravel, clay; trace silt.	
145								132.3' Color grades to light olive brown (2.5Y 5/4).	
								133.05' - 133.35' Subrounded cobble grain.	
								133.45' - 134' Gray (10YR 6/1) fine-grained SAND; trace silt.	
								134' - 134.85' Gray (10YR 6/2), reddish brown (2.5YR 5/3) mottled CLAY; hard; highly plastic.	
								134.85' - 135.4' Light gray (10YR 7/1) fine-grained SANDY CLAY; soft; highly plastic.	
150								135.4' - 138' Gray (10YR 6/2), reddish brown (2.5YR 5/3) mottled CLAY; hard; highly plastic.	
155									
160									