

**CH2MHILL**

PROJECT NUMBER

177556.SA.FE

BORING NUMBER

MW-178

SHEET 1 of 3

SOIL BORING LOG

PROJECT : Memphis Depot Remedial Investigation Plan LOCATION : Memphis, TN

ELEVATION:

DRILLING CONTRACTOR : Prosonic Corporation

NAME OF DRILLER : Adam Marshall

DRILLING METHOD/EQUIPMENT: Rotosonic Drilling

SIZE/TYPE OF BIT : 4 X 6"

OVERBURDEN THICKNESS : DEPTH DRILLED INTO ROCK : N/A

TOTAL DEPTH OF BORING : 96 ft-bgs

WATER LEVELS : START : 10/13/2005 END : 10/13/2005

LOGGER : Mike Karafa/ATL

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
SAMPLE INTERVAL (FT)				PENETRATION	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. FID (ppm)
RECOVERY (FT)				TEST RESULTS		
#/TYPE				6"-6"-6" (N)		
5	0-6	100%	N/A	N/A	0-6: SILTY SAND, grass roots	
					3-25: SILT to SILTY CLAY (Loess), brown stiff, damp	0.0
						0.0
						5.6
						21.8
10	6-16	100%	N/A	N/A		23.7
15						2.8
						3.2
20	16-26	100%	N/A	N/A		3.2
25					25-35: SILTY SAND, reddish brown to grey, fine grained, stiff, damp	4.1
						2.2
30	26-36	100%	N/A	N/A		0.0
						0.0



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		RECOVERY (FT)	#/TYPE			
35	26-36	100%	N/A	N/A	35-37: Sand, orange, loose, fine to medium grained damp	0.0
40	36-46	100%	N/A	N/A	37-45: Gravelly sand, fine to coarse grain, reddish orange, loose, damp, gravel and chert, subangular, up to 1.5" in diameter	0.0
45					45-55: SAND: orangish tan, fine grain, dry loose.	0.0
50	46-56	100%	N/A	N/A		
55					55-65: GRAVELLY SAND, tan, loose, fine to coarse grained, damp to wet, gravel and cobbles up to 3" diam, subrounded to rounded. Chert and quartz. Gravel size only below 62'.	
60	56-66	100%	N/A	N/A		
65					66-74: SAND, orange, fine grained, loose damp	

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RECOVERY (FT)				TEST RESULTS		
#/TYPE				6"-6"-6" (N)		
70	66-76	100%	N/A	N/A	74-77: SAND, fine to coarse grained, orange, loose, wet	
75						
80	76-86	100%	N/A	N/A	77-82: Same as above. Gravel up to 1.5"	
85					82.5-83: SILTY CLAY lense, orange stiff, damp 83-85: SAND, orange, coarse grained, loose, saturated, gravel at 85 ft bgs 85-92: SILTY CLAY, orange, very stiff, damp, with grey mottles	
90	86-96	100%	N/A	N/A	92-96: SILTY CLAY, dark grey, very stiff, damp	
95						

TD @ 96' BGS