



CH2MHILL

PROJECT NUMBER

177556.SA.FE

BORING NUMBER

MW-175

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 : 86 ft-bgs

WATER LEVELS : START : 10/12/2005 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)		
0-6	100%	N/A	N/A	N/A	0-2: SAND, SOIL, black, grass roots 2-16: SILT, brown, stiff loess	1.2 10.0
6-16	100%	N/A	N/A	N/A		21.9 23.1
16-26	100%	N/A	N/A	N/A	16-25: SILT, some sand, reddish brown, loess	14.6
26-36	100%	N/A	N/A	N/A	25-26: SILTY SAND, reddish orange, fine grain, stiff, damp 26-36: SILTY SAND, reddish orange, loose, fine to coarse grain, damp, gravel subrounded to subangular, up to 1.5"	3.5 3.2 3.7 41.0
						34.4



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DEPTH BELOW SURFACE (FT)	DEPTH BELOW SURFACE (FT)			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	SAMPLE INTERVAL (FT)		#/TYPE			
	RECOVERY (FT)					
35	26-36	100%	N/A	N/A		4.4
					36-49: SAND, dark orange, fine to medium grain, loose, damp, pea-sized gravel	7.5
40						
	36-46	100%	N/A	N/A		4.7
45						21.8
						3.5
50					49-53: SAND, medium grain, tan, loose, damp	4.5
	46-56	100%	N/A	N/A		5.0
					53-60: SAME AS ABOVE, orange	5.8
55						4.7
						3.1
60					60-63: SAND, fine grain, tan, loose, dry	3.4
	56-66	100%	N/A	N/A		3.0
					63-65: SAND, orange, fine to medium grain, loose, wet, gravel subrounded to subangular, up to 1"	3.6
65						3.8
					65-66: GRAVELLY SAND, course grain, tan, loose, wet, gravel up to 1"	3.1

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DRILLING METHOD/EQUIPMENT: Rotosonic Drilling								SIZE/TYPE OF BIT : 4 X 6"	
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RECOVERY (FT)			TEST RESULTS						
#/TYPE			6"-6"-6" (N)						
70	66-76	100%	N/A	N/A	66-76: SAND, fine to medium grain, orangish tan, loose, damp, some small chert, up to 1/2", wet @ 75'		4.4		
75							7.9		
					76-77: SILTY SAND, orange, sticky, saturated, fine grain 77-80: SILTY CLAY, orange, stiff, damp, with gray silty clay mottles 80-86: SILTY CLAY, gray, stiff, damp, massive		9.0		
80	76-86	100%	N/A	N/A			6.7		
							8.5		
							1.5		
85							2.4		
							TD @ 86' BGS		