

				PROJECT NUMBER 177556.SA.FE		BORING NUMBER MW-184		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 : 10/24/2005		END : 10/24/2005		LOGGER : Mike Karafa/ATL	
DEPTH BELOW SURFACE (FT)			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)		SOIL DESCRIPTION			COMMENTS	
SAMPLE INTERVAL (FT)			RECOVERY (FT)		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)	
			#/TYPE						
0-16			100%		N/A		N/A		
16-22			100%		N/A		N/A		
22-26			100%		N/A		N/A		
26-36			100%		N/A		N/A		
0-2: SILT, tan, roots								0.0	
2-12: SILT, dry, brown, loose								0.0	
12-21: SILT, brown, stiff, damp, loess								0.0	
21-25: SILT, brown, stiff to loose, w/ sand strings, gravel up to 1", sub-rounded, 1/4" SILTY CLAY lense, grey @ 21.5'								0.0	
25-29: SAND, some silt, reddish orange, loose, fine to course grain, gravel chert, subangular to subrounded, up to 2"								0.0	
29-30: SAND, orange, fine grain, loose, damp								0.0	
30-31: GRAVELLY SILTY SAND, orange, fine to med. grain, loose, damp, gravel up to 1"								0.0	
31-32: SAME AS 29-30'								0.0	
32-33: SAND, tan, fine grain, loose, dry								0.0	

 CH2MHILL		PROJECT NUMBER 177556.SA.FE		BORING NUMBER MW-184		SHEET 2 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: Rotasonic Drilling						SIZE/TYPE OF BIT : 4 X 6"	
OVERBURDEN THICKNESS :						DEPTH DRILLED INTO ROCK : N/A	
TOTAL DEPTH OF BORING : 86 ft-bgs						LOGGING : Mike Karafa/ATL	
WATER LEVELS :						START : 10/24/2005 END : 10/24/2005	
DEPTH BELOW SURFACE (FT)		STANDARD PENETRATION		SOIL DESCRIPTION		COMMENTS	
SAMPLE INTERVAL (FT)		RECOVERY (FT)		TEST RESULTS		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.	
		#/TYPE		6"-6"-6" (N)		FID (ppm)	
35	26-36	100%	N/A	N/A	33-34: SAND, orangish tan, fine grain, loose, damp, pebble size gravel up to 1/2", chert 34-41: SAND, orange, fine to medium grain, loose, damp, some 1/2" chert @ 36'	0.0 0.0	
40	36-46	100%	N/A	N/A	41-41.5: SILTY SAND, dark brown, hard, medium grain, damp 41.5-42.5: SAND, tan to orange, loose, fine grain, dry 42.5-43: SAME AS ABOVE, gravel up to 1/2", chert 43-44.5: SAND, tan, loose, dry, fine grain 44.5-46: GRAVELLY SAND, tan, fine to medium grain, loose, pea-sized gravel up to 3/4", chert	0.0 0.0 0.0 0.0	
45	46-56	100%	N/A	N/A	46-46.5: GRAVELLY SAND, dark brown, loose, dry, 1" chert 46.5-47: SAND, grey, v. fine grain, loose, dry 47-48: SAND, tan, fine to medium grain, loose, dry, gravel up to 1", chert 48-52: SAND, orange, fine to coarse grain, damp, angular to subrounded, up to 2" 52-55.5: SAND, tan to 54', orange to 55.5', loose, fine grain, damp, some pea-sized gravel	0.0 0.0 0.0 0.0	
50	56-66	100%	N/A	N/A	55.5-56: SANDY CLAY, grey and orange mottles, stiff, damp, fine grain 56-59: SAND, orange, fine grain, loose, dry, gravel, pea-sized to 1.5", subrounded, chert 59-60: SANDY CLAY, fine grain, orange, stiff, damp 60-62.5: SAND, tan, fine grain, loose, damp, gravel up to 1.5", chert 62.5-63: GRAVELLY SAND, orange, fine to medium grain, loose, gravel up to 3" 63-64.5: SAND, orange, fine grain, loose, damp 64.5-67: SAND, orange, fine to coarse grain, loose, wet	0.0 0.0 0.0 0.0 0.0 0.0	
55							
60							
65							

 CH2MHILL				PROJECT NUMBER 177556.SA.FE		BORING NUMBER MW-184		SHEET 3 of 3	
				SOIL BORING LOG					
PROJECT : Memphis Depot Remedial Investigation Plan								LOCATION : Memphis, TN	
DRILLING CONTRACTOR : Prosonic Corporation								ELEVATION:	
DRILLING METHOD/EQUIPMENT: Rotosonic Drilling								NAME OF DRILLER : Adam Marshall	
OVERBURDEN THICKNESS :								DEPTH DRILLED INTO ROCK : N/A	
WATER LEVELS :								TOTAL DEPTH OF BORING : 86 ft-bgs	
START : 10/24/2005								END : 10/24/2005	
LOGGER : Mike Karafa/ATL									
DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)		SOIL DESCRIPTION		COMMENTS	
SAMPLE INTERVAL (FT)				RECOVERY (FT)		#/TYPE		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. FID (ppm)	
66-76				100%		N/A		N/A	
76-86				100%		N/A		N/A	
67-68: GRAVELLY SAND W/ CLAY, loose to sticky, orange, gravel up to 1", saturated 68-75: SILTY CLAY, orange, stiff, damp				75-86: SILTY CLAY, dark grey, very stiff, damp		0.0 0.0 0.0		0.0	
TD @ 86' BGS									