CH2MHILL

PROJECT NUMBER	BORING NUMBER	
177556.SA.FE	MW-183	SHEET 1 of 6

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 : 186 ft-bgs
WATER LEVELS :	START : 10/17/2005	END : 10/18/2005	LOGGER : Mike Karafa/ATL

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL (FT)	RECOVERY (FT)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. FID (ppm)
0					0-2: SOIL, SAND, roots	0.0
					2-22: SILT, tan, loose, dry	0.0
5						
	0-16	100%	N/A	N/A		
10						
15						
	16-26	100%	N/A	N/A		
20						
					22-26: SILTY SAND, reddish orange, loose, fine to medium grain, damp, (gravel up to 1/2" 25-26')	0.0
25						
					26-35: GRAVELLY SILTY SAND, orange tan, loose, fine to course grain, wet, gravel, angular to subrounded, up to 2"	0.0
	26-36	100%	N/A	N/A		
30						

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PROJECT NUMBER	BORING NUMBER	
177556.SA.FE	MW-183	SHEET 2 of 6

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 : 186 ft-bgs

WATER LEVELS : START : 10/17/2005 END : 10/18/2005 LOGGER : Mike Karafa/ATL

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL (FT)	RECOVERY (FT)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. FID (ppm)
35	26-36	100%	N/A	N/A	35-36: SAND, orange, loose, fine to medium grain, wet	0.0
					36-44: SAND orange, loose, fine to medium grain, damp, gravel up to 1"	0.0
40	36-46	100%	N/A	N/A		
45					44-45: SAND, orange, fine grain, loose, damp	0.0
					45-45.5: SAND, orange, fine to course grain, loose, damp	0.0
					45.5-46: SILTY CLAY, light gray, sticky, damp	0.0
					46-52: SAND, tan, fine grain, loose, dry	0.0
50	46-56	100%	N/A	N/A		
					52-55: SAND, orange, fine to course grain, loose, damp	0.0
55					55-58: SAME AS ABOVE, fine to medium grain	0.0
					58-60: SAME AS ABOVE, fine to course grain, some gravel	0.0
60	56-66	100%	N/A	N/A	60-67: SAND, orange, fine to medium grain, loose, wet	0.0
65						

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PROJECT NUMBER	BORING NUMBER	
177556.SA.FE	MW-183	SHEET 3 of 6

SOIL BORING LOG

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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 : 186 ft-bgs
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70	66-76	100%	N/A	N/A	67-70: SAND, orange, loose, fine to course grain, wet, gravel up to 1.5"	0.0
					70-71: SILTY SANDY CLAY, sticky, orange, and gray mottles, fine grain, wet, small gravel	0.0
					71-98: SILTY CLAY, dark gray, stiff	0.0
75						
80	76-86	100%	N/A	N/A		
85						
90	86-96	100%	N/A	N/A		
95						
	96-106	100%	N/A	N/A	98-99: SILTY SAND, some clay, gray, loose, damp	0.0

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PROJECT NUMBER	BORING NUMBER	
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SOIL BORING LOG

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DRILLING CONTRACTOR : Prosonic Corporation			NAME OF DRILLER : Adam Marshall
DRILLING METHOD/EQUIPMENT: Rotosonic Drilling			SIZE/TYPE OF BIT : 4 X 6"
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100					99-102: SILTY CLAY, dark gray, stiff, damp	0.0
					102-106: SILTY SAND, gray, loose, fine grain, damp	4.0
					103: (2" thick, SILTY CLAY, dark gray)	0.0
105					105: (2" thick, SILTY CLAY, dark gray)	0.0
					106-116: SAND, gray, loose, dry, fine grain	0.0
110						
					114: SILTY CLAY lense	0.0
115						
					116-124: SAND, gray, loose, damp, fine to medium grain	0.0
120						
					124-126: SILTY CLAY, stiff, gray, damp	0.0
125						
					126-138: SAME AS ABOVE, more silt	0.0
130						

CH2MHILL	PROJECT NUMBER 177556.SA.FE	BORING NUMBER MW-183	SHEET 5 of 6

SOIL BORING LOG

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DRILLING CONTRACTOR : Prosonic Corporation			NAME OF DRILLER : Adam Marshall
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OVERBURDEN THICKNESS :	DEPTH DRILLED INTO ROCK : N/A		TOTAL DEPTH OF BORING : 186 ft-bgs
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135					135.5: 6" of CARBONIZED WOOD	0.0
					138-158: SAND, gray, some silt, loose, fine grain, saturated	0.0
140						
145						
150						
155						
					158-164: SAND, gray, fine grain, loose, wet	0.0
160						
					164-168: SAND, gray, fine to medium grain, loose, wet	0.0
165						

CH2MHILL

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SOIL BORING LOG

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170					168-171: SILTY SANDY CLAY, gray, sticky, fine grain, damp	0.0
					171-178: SILTY CLAY, gray, stiff, damp	0.0
175						
					178-186: SANDY CLAY, with silt, very sticky to stiff, fine grain, wet	0.0
180						
185						TD @ 186' BGS