

PROJECT NUMBER 177556.SA.FE BORING NUMBER

MW-182

SHEET 1 of 3

SOIL BORING LOG

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

DRILLING CONTRACTOR: Prosonic Corporation

DRILLING METHOD/EQUIPMENT: Rotosonic Drilling

DRILLING METHOD/EQUIPMENT: Rotosonic Drilling

SIZE/TYPE OF BIT: 4 X 6"

OVERBURDEN THICKNESS: DEPTH DRILLED INTO ROCK: N/A

TOTAL DEPTH OF BORING: 76 ft-bgs

OVERBURDEN THICKNESS :				DEPTH I	DRILLED INTO ROCK : N/A	TOTAL DEPTH OF BORING: 76 ft-bgs
WATER LEVELS :				START :	10/19/2005 END: 10/19/2005	LOGGER: Mike Karafa/ATL
DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	SAMPLE INTERVAL (FT)			PENETRATION		
		RECOVER		TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,
			#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
				6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
				(N)	MINERALOGY.	FID (ppm)
_					0-2: SOIL, SANDY SILT, roots, grass	0.0
					5 2. 55.2, 57.1.2 · 5.2 · , 155.5, grass	
-					2-21: SILT, tan, loose, dry	0.0
_					2-21. SIL1, tan, loose, dry	0.0
						_
_						_
5						_
_						_
_						=
						_
_	0-16	100%	N/A	N/A		_
_						_
						_
10 _						_
" _						_
_						- - -
_						-
						_
_						_
_						_
						_
15						_
-						_
						_
_						_
						_
-						=
_						=
20 _						_
_						2.1
_	16-26	100%	N/A	N/A	21-26: SILTY SAND, orangish red, loose, fine to course grain,	0.0
					damp	<u> </u>
_						_
						-
25 -						-
_					OO 44 ODAVELLY CAND	_
-					26-41: GRAVELLY SAND, orange, some silt, loose, damp, gravel up to 2.5", subangular to subrounded	0.0
					g ap to 2.10 , casalligatal to capitodiffact	
_						-
-						-
	26-36	100%	N/A	N/A		
30						1.0
						_
]
-						-

MW-182.xls A-3



PROJECT NUMBER 177556.SA.FE **BORING NUMBER**

MW-182

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 Rotosonic Drilling DRILLING METHOD/EQUIPMENT: SIZE/TYPE OF BIT: 4 X 6" OVERBURDEN THICKNESS: DEPTH DRILLED INTO ROCK : N/A TOTAL DEPTH OF BORING: 76 ft-bgs 10/19/2005 WATER LEVELS START: 10/19/2005 END LOGGER: Mike Karafa/ATL DEPTH BELOW SURFACE (FT) COMMENTS STANDARD SOIL DESCRIPTION SAMPLE INTERVAL (FT) PENETRATION RECOVERY (FT) TEST SOIL NAME, USCS GROUP SYMBOL, COLOR, DEPTH OF CASING, DRILLING RATE, #/TYPE RESULTS MOISTURE CONTENT, RELATIVE DENSITY, DRILLING FLUID LOSS, 6"-6"-6" OR CONSISTENCY, SOIL STRUCTURE, TESTS, AND INSTRUMENTATION. MINERALOGY. FID (ppm) (N) 26-36 100% N/A N/A 35 40 36-46 100% N/A N/A 41-44: SAND, orange, fine to medium grain, loose, damp 0.0 44-45: SAND, orange, fine to medium grain, loose, damp, 0.0 gravel up to 1-2", subrounded, clay lense at 45' 45-50: SAND, tan, fine grain, loose, damp to dry 45 0.0 50 50-61: SAND, orange, fine to medium grain, loose, damp 0.0 46-56 100% N/A N/A 55 60 56-66 100% N/A N/A 0.0 61-64: SAND, orange, loose, fine grain, damp 0.0 64-66: SAND, orange, loose, fine to course grain, wet, gravel 65 up to 1/2"

MW-182.xls A-3



PROJECT NUMBER 177556.SA.FE BORING NUMBER

MW-182

SHEET 3 of 3

TD @ 76' BGS

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" TOTAL DEPTH OF BORING: 76 ft-bgs OVERBURDEN THICKNESS: DEPTH DRILLED INTO ROCK : N/A WATER LEVELS: START: 10/19/2005 END 10/19/2005 LOGGER: Mike Karafa/ATL DEPTH BELOW SURFACE (FT) STANDARD SOIL DESCRIPTION COMMENTS SAMPLE INTERVAL (FT) PENETRATION RECOVERY (FT) TEST SOIL NAME, USCS GROUP SYMBOL, COLOR, DEPTH OF CASING, DRILLING RATE, #/TYPE **RESULTS** MOISTURE CONTENT, RELATIVE DENSITY, DRILLING FLUID LOSS, 6"-6"-6" OR CONSISTENCY, SOIL STRUCTURE, TESTS, AND INSTRUMENTATION. MINERALOGY. (N) FID (ppm) 66-71: SAME AS ABOVE, saturated 0.0 70 66-76 100% N/A N/A 71-72: SILTY CLAYEY SAND, orange, sticky, gravel up to 1" 0.0 72-76: SILTY CLAY, dark grey, damp, stiff 0.0 75

MW-182.xls A-3